1	The 2	Advisory	Committee	on	Heritable	Disorders	in
2			Newborns	and	Children		
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21							
22							

1 APPEARANCES

- 2 COMMITTEE MEMBERS:
- MEI BAKER, M.D., Professor of Pediatrics,
- 4 University of Wisconsin School of Medicine and
- 5 Public Health, Co-Director, Newborn Screening
- 6 Laboratory, Wisconsin State Laboratory of
- 7 Hygiene
- 8 SUSAN A. BERRY, M.D., Professor and Director,
- 9 Division of Genetics and Metabolism,
- Department of Pediatrics and Genetics, Cell
- Biology & Development, University of Minnesota
- 12 JOSEPH BOCCHINI, JR., M.D. (Chairperson),
- 13 Professor and Chairman, Department of
- 14 Pediatrics, Louisiana State
- 15 University
- 16 JEFFREY P. BROSCO, M.D., Ph.D., Professor of
- 17 Clinical Pediatrics, University of Miami School
- of Medicine, Department of Pediatrics, Deputy
- 19 Secretary, Children's Medical Services, Florida
- 20 State Department of Health
- 21 CYNTHIA M. POWELL, M.D., Professor of Pediatrics
- and Genetics, Director, Medical Genetics

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- 1 Residency Program, Pediatric Genetics and
- Metabolism, The University of North Carolina
- 3 at Chapel Hill
- 4 ANNAMARIE SAARINEN, Co-Founder, CEO, Newborn
- 5 Foundation
- 6 SCOTT M. SHONE, Ph.D., Senior Research Public
- 7 Health Analyst, RTI International
- 8 BETH TARINI, M.D., M.S., FAAP, Associate
- 9 Professor and Division Director, General
- 10 Pediatrics & Adolescent Medicine, University of
- 11 Iowa Hospitals & Clinics

- 13 EX-OFFICIO MEMBERS:
- 14 CARLA CUTHBERT, Ph.D., Centers for Disease
- 15 Control and Prevention, National Center for
- 16 Environmental Health
- 17 KELLIE B. KELM, Ph.D., Food and Drug
- Administration, Division of Chemistry and
- 19 Toxicology Devices
- 20 MELISSA PARISI, M.D., Ph.D., National Institutes
- of Health, Eunice Kennedy Shriver National
- 22 Institute of Child Health and Human Development

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- 1 JOAN SCOTT, Health Resources and Services
- 2 Administration, Maternal and Child Health
- 3 Bureau

- 5 DESIGNATED FEDERAL OFFICIAL:
- 6 CATHARINE RILEY, Ph.D., MPH, Health Resources and
- 7 Services Administration, Genetic Services
- 8 Branch, Maternal and Child Health Bureau

9

- 10 ORGANIZATIONAL REPRESENTATIVES:
- 11 NATASHA F. BONHOMME, Genetic Alliance
- 12 SIOBHAN DOLAN, M.D., MPH, March of Dimes,
- Department of Obstetrics & Gynecology and
- Women's Health, Albert Einstein College of
- 15 Medicine and Montefiore Medical Center
- 16 DEBRA FREEDENBERG, M.D., Ph.D., American Academy
- of Pediatrics, Texas Department of State Health
- 18 Services
- 19 CHRISTOPHER KUS, M.D., MPH, Association of
- 20 State & Territorial Health Officials,
- New York State Department of Health
- 22 SHAWN E. MCCANDLESS, M.D., Society for Inherited

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- 1 Metabolic Disorders, Genetics and Metabolism,
- 2 Children's Hospital Colorado
- 3 JED L. MILLER, M.D., MPH, Association of Maternal
- 4 & Child Health Programs, Office for
- 5 Genetics and People with Special Health Care
- 6 Needs, Maryland Department of Health Prevention
- 7 & Health Promotion Administration
- 8 ROBERT OSTRANDER, M.D., American Academy of
- 9 Family Physicians, Valley View Family Practice
- 10 SUSAN M. TANKSLEY, Ph.D., Association of Public
- 11 Health Laboratories, Laboratory
- Operations Unit, Texas Department of State
- 13 Health Services
- 14 CATE WALSH VOCKLEY, MS, CGC, National
- Society of Genetic Counselors, Division of
- Medical Genetics, Children's Hospital of
- 17 Pittsburgh
- 18 MICHAEL S. WATSON, Ph.D., FACMG, American
- 19 College of Medical Genetics

- 21 OTHERS:
- 22 SCOTT GROSSE, Ph.D., Centers for Disease Control

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1	& Prevention
2	ALEX KEMPER, M.D., MPH, MS, Division Chief of
3	Ambulatory Pediatrics, Nationwide Children's
4	Hospital, Professor of Pediatrics, Ohio State
5	University College of Medicine
6	K.K. LAM, Ph.D., Child Health Project Leader,
7	CTSI Accelerator, Duke University
8	MARCI SONTAG, Ph.D., Director, NewSTEPs 360,
9	Colorado School of Public Health, Director,
10	Center for Public Health Innovation, CI
11	International
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15	
16	
17	
18	
19	
20	
21	CONTENTS
22	PAGE

1	WELCOME	8
2	ROLL CALL	8
3	MAY 2018 MINUTES VOTE	12
4	SMA UPDATE	14
5	EVIDENCE-BASED REVIEW PROCESS	19
6	IMPLEMENTATION OF NEW CONDITIONS	20
7	RISK ASSESSMENT IN NEWBORN SCREENING	30
8	IMPROVING TIMELINESS IN NEWBORN SCREENING:	96
9	THE STORY BEHIND THE STORY	
10	PUBLIC COMMENTS	13 3
11	EDUCATION AND TRAINING WORKGROUP UPDATE	134
12	LABORATORY STANDARDS AND PROCEDURES	150
13	WORKGROUP UPDATE	
14	FOLLOW-UP AND TREATMENT WORKGROUP UPDATE	155
15	REPORT ON LONG-TERM FOLLOW-UP IN	173
16	NEWBORN SCREENING	
17	REPORT ON TECHNOLOGY IN NEWBORN SCREENING	224
18	NEW BUSINESS	230
19	ADJOURN	232
20		
21	PROCEEDINGS	
22	DR. JOSEPH BOCCHINI: Thank you,	

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1 Operator. Good morning, everyone. I would like

- 2 to add my welcome to you. This is the third
- meeting of the Advisory Committee on Heritable
- 4 Disorders in Newborns and Children for 2018. We
- 5 will begin the meeting by taking a roll call.
- So, going alphabetically: the Agency for
- 7 Healthcare Research and Quality, Kamila Mistry?
- 8 She may or may not be available this morning but
- 9 will be on the call on and off during the --
- 10 during the day.
- 11 (No audible response)
- DR. JOSEPH BOCCHINI: Mei Baker?
- (No audible response)
- DR. JOSEPH BOCCHINI: If you'll answer
- 15 with "here."
- (No audible response)
- DR. JOSEPH BOCCHINI: Susan Berry?
- (No audible response)
- DR. JOSEPH BOCCHINI: So, if your phone
- is on -- on mute, please unmute it. We're not
- 21 hearing any responses.
- Jeff Brosco?

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- DR. JEFFREY P. BROSCO: I'm here. 1
- DR. JOSEPH BOCCHINI: Thank you. Centers
- for Disease Control and Prevention, Scott Grosse
- will be here this morning. Scott?
- 5 DR. SCOTT GROSSE: I'm here.
- DR. JOSEPH BOCCHINI: Food and Drug 6
- Administration, Kellie Kelm?
- DR. KELLIE B. KELM: Here. 8
- DR. JOSEPH BOCCHINI: Health Resources 9
- and Services Administration, Joan Scott? 10
- MS. JOAN SCOTT: Here. 11
- DR. JOSEPH BOCCHINI: Cynthia Powell? 12
- (No audible response) 13
- DR. JOSEPH BOCCHINI: The National 14
- Institute of Health, Melissa Parisi? 15
- DR. MELISSA PARISI: Here. 16
- DR. JOSEPH BOCCHINI: Annamarie Saarinen? 17
- (No audible response) 18
- DR. JOSEPH BOCCHINI: Scott Shone? 19
- DR. SCOTT M. SHONE: Here. 20
- DR. JOSEPH BOCCHINI: Beth Tarini? 21
- DR. BETH TARINI: Here. 22

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- DR. JOSEPH BOCCHINI: And our DFO,
- 2 Catharine Riley?
- DR. CATHARINE RILEY: Here.
- DR. JOSEPH BOCCHINI: So, for our
- organizational representatives, American Academy
- of Family Physicians, Robert Ostrander?
- DR. ROBERT OSTRANDER: Here.
- 8 DR. JOSEPH BOCCHINI: American Academy of
- 9 Pediatrics, Debra Freedenberg?
- DR. DEBRA FREEDENBERG: Here.
- DR. JOSEPH BOCCHINI: American College of
- 12 Medical Genetics, Michael Watson?
- DR. MICHAEL S. WATSON: Hello, I'm here.
- DR. JOSEPH BOCCHINI: American College of
- 15 Obstetricians and Gynecologists, Britton Rink?
- (No audible response)
- 17 DR. JOSEPH BOCCHINI: Association of
- 18 Maternal and Child Health Programs, Jed Miller?
- DR. JED MILLER: Here.
- DR. JOSEPH BOCCHINI: Association of
- 21 Public Health Laboratories, Susan Tanksley?
- DR. SUSAN M. TANKSLEY: Here.

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- DR. JOSEPH BOCCHINI: Association of
- 2 State and Territorial Health Officials, Chris
- 3 Kus?
- DR. CHRIS KUS: Here.
- DR. JOSEPH BOCCHINI: The Department of
- 6 Defense, Adam Kanis, is unavailable for this
- 7 meeting.
- 8 Genetic Alliance, Natasha Bonhomme?
- 9 MS. NATASHA F. BONHOMME: Here.
- DR. JOSEPH BOCCHINI: March of Dimes,
- 11 Siobhan Dolan?
- DR. SIOBHAN DOLAN: Here.
- DR. JOSEPH BOCCHINI: National Society of
- 14 Genetic Counselors, Cate Walsh Vockley?
- MS. CATE WALSH VOCKLEY: Here.
- DR. JOSEPH BOCCHINI: Society for
- 17 Inherited Metabolic Disorders, Shawn McCandless?
- DR. SHAWN MCCANDLESS: Here.
- DR. JOSEPH BOCCHINI: Thank you. Let's
- 20 just go back and check for Mei Baker?
- 21 (No audible response)
- DR. JOSEPH BOCCHINI: Susan Berry?

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1 (No audible response)
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- DR. JOSEPH BOCCHINI: Annamarie Saarinen?
- 3 (No audible response)
- DR. JOSEPH BOCCHINI: Okay.
- DR. CATHARINE RILEY: Annamarie Saarinen
- 6 just logged on to the webinar. And we -- we can
- 7 see you on the webinar; are you on the phone, as
- 8 well?
- 9 (No audible response)
- DR. CATHARINE RILEY: Okay.
- DR. JOSEPH BOCCHINI: All right, well,
- 12 let's go forward, and -- and -- and -- and we'll
- 13 catch these other members in -- in a few minutes.
- Next on the agenda is a -- is approval of
- the minutes of the May meeting. The Committee
- 16 received the draft minutes to review prior to the
- 17 meeting. We've incorporated the revisions that
- were received as of this morning and sent the
- 19 revisions out to the Committee.
- In addition, we have received some
- 21 additional edits. Each of these edits are -- are
- 22 merely for clarifying technical information.

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- 1 They're minor edits and correcting typos, and
- there is no real change to any of the substance
- 3 of -- of the -- of the meeting minutes.
- 4 So, we will go forward with the vote for approval
- of the May minutes.
- So, we'll start with Mei Baker?
- 7 (No audible response)
- DR. JOSEPH BOCCHINI: Susan Berry?
- 9 (No audible response)
- DR. JOSEPH BOCCHINI: I approve.
- Jeff Brosco?
- DR. JEFFREY P. BROSCO: Approve.
- DR. JOSEPH BOCCHINI: Scott Grosse?
- DR. SCOTT GROSSE: Approved with the
- 15 additional edits that Carla submitted.
- DR. JOSEPH BOCCHINI: Could you repeat
- 17 that? We didn't hear it well, Scott.
- DR. SCOTT GROSSE: Okay. Approved with
- 19 the additional edits that Carla Cuthbert
- 20 submitted.
- DR. JOSEPH BOCCHINI: Yes. Thank you.
- 22 Kellie Kelm?

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- DR. KELLIE B. KELM: Approved.
- DR. JOSEPH BOCCHINI: Kamila Mistry?
- 3 (No audible response)
- DR. JOSEPH BOCCHINI: Melissa Parisi?
- DR. MELISSA PARISI: Approve.
- DR. JOSEPH BOCCHINI: Cynthia Powell?
- 7 (No audible response)
- BDR. JOSEPH BOCCHINI: Annamarie Saarinen?
- 9 MS. ANNAMARIE SAARINEN: Approved.
- DR. JOSEPH BOCCHINI: Joan Scott?
- MS. JOAN SCOTT: Approved.
- DR. JOSEPH BOCCHINI: Scott Shone?
- DR. SCOTT M. SHONE: Approved.
- DR. JOSEPH BOCCHINI: And Beth Tarini.
- DR. BETH TARINI: Approved.
- DR. JOSEPH BOCCHINI: Thank you, all.
- Next item is a -- a new addition to the
- 18 RUSP. As you know, in March, on behalf of the
- 19 Committee, I sent a letter to the Secretary
- 20 regarding our recommendation to expand the
- 21 Recommended Uniform Screening Panel to include
- 22 the addition of spinal muscular atrophy due to

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- 1 homozygous deletion of exon 7 and SMN1.
- We received a letter from the Secretary
- of Health and Human Services on July 02, 2018,
- 4 that he had accepted the Committee's
- 5 recommendation. In his response, the Secretary
- 6 has asked that the Committee provide a report
- 7 within 2 years, describing the status of
- 8 implementing newborn screening for SMA, including
- 9 clinical outcomes of early treatment and any
- 10 potential harms for infants diagnosed with SMA.
- 11 The letter and its -- and the full SMA
- 12 evidence review report are now available on the
- 13 Committee's website.
- I want to personally thank everyone who
- 15 contributed to the nomination and to the review
- of the evidence of SMA. In particular, I want to
- 17 thank the Committee members for their
- 18 comprehensive review of the evidence and the
- 19 discussion that resulted in the decision to move
- 20 this on to the Secretary with our recommendation.
- 21 So, thank you.
- Next on the agenda is a call for

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- 1 organizational representatives. Got the next
- 2 slide? So, as you're all aware, the Committee
- 3 really values the expertise and input from the
- 4 organizational representatives. On the Committee
- 5 website is an invitation for organizations
- 6 interested in being considered for formal
- 7 representation at Committee meetings. Criteria
- 8 used by HRSA for selection of organizations are
- 9 also listed on the website and summarized on this
- 10 slide.
- 11 The Committee has received some
- 12 applications through this mechanism. HRSA will
- now also soon put out a call for organizations
- that wish to be considered. I want to thank the
- organizations that have already expressed
- interest for their patience in this process. All
- 17 applications received thus far will be
- 18 considered, along with any additional
- organizations who wish to apply for serving as
- 20 formal organizational representatives to the
- 21 Committee.
- Next slide. Also want to introduce a new

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- 1 organizational representative for the Society of
- 2 Inherited Metabolic Disorders is Dr. Shawn E.
- 3 McCandless. Dr. McCandless is a Visiting
- 4 Professor of Pediatrics and the Section Head for
- 5 Genetics and Metabolism at the University of
- 6 Colorado, Andrews School of Medicine, and
- 7 Children's Hospital of Colorado.
- Dr. McCandless is a graduate of Temple
- 9 University's School of Medicine in Philadelphia,
- 10 completed his pediatric residency at the
- 11 University of Wisconsin at Madison, and clinical
- and biochemical genetics training at Case Western
- 13 Reserve University. Dr. McCandless has worked as
- 14 a general pediatrician in the Northern Navajo
- 15 Medical Center in Shiprock, New Mexico, and held
- 16 faculty positions in genetics and metabolism at
- 17 the University of North Carolina, Chapel Hill,
- 18 and at Case Western.
- 19 He previously served on the Ohio
- 20 Department of Health Newborn Screening Advisory
- 21 Council for 12 years. He is currently a Co-PI of
- 22 the Urea Cycle Disorders Consortium of the NIH

- 1 Rare Diseases Clinical Research Networks. His
- 2 research has focused on inborn errors of
- metabolism and the Prader-Willi syndrome. He is
- 4 board certified in pediatrics, clinical genetics,
- 5 and clinical biochemical genetics. Dr.
- 6 McCandless is a fellow of the American Academy of
- 7 Pediatrics and the American College of Medical
- 8 Genetics and serves on the Board of Directors of
- 9 SIMD.
- So, I'd like to welcome Dr. McCandless as
- a organizational representative to the Committee
- and ask that all of us give a warm welcome to
- 13 him. So, welcome.
- 14 Also want to --
- DR. SHAWN MCCANDLESS: Thank you.
- DR. JOSEPH BOCCHINI: Also want to thank
- 17 Dr. Greene for her years of service as the
- 18 representative for the Society of Inherited
- 19 Metabolic Disorders and -- and all of her work
- 20 and her involvement at Committee meetings and
- workgroups, and certainly look forward to Dr.
- 22 McCandless continuing that tradition of providing

1 good service to the Committee. So, we appreciate

- 2 your involvement and the involvement of your
- 3 organization.
- Next slide. As I mentioned at our last
- meeting, when implementing evidence-based
- 6 decision-making, it's necessary to periodically
- 7 evaluate the processes that are in place. And as
- 8 I had mentioned at the last meeting, we made the
- 9 decision to take a closer look at the condition-
- 10 nominating process, including looking at the
- options for nominating a condition and removal of
- 12 a condition from the RUSP.
- 13 As we go forward, we will also be
- 14 assessing the entire condition review process.
- 15 As you know, we talked about establishing a
- 16 steering committee and -- and moving forward with
- 17 the plan to complete this review. The evaluation
- 18 will include how the evidence review is
- onducted, the components included, how the
- 20 evidence is presented to the Committee, and how
- 21 the decision matrix is being used. I'd like to
- 22 see us update the evidence -- the decision

- 1 framework using the latest approaches for using
- 2 evidence to successfully develop public health
- 3 policy.
- So, the Committee is working with HRSA to
- 5 initiate this process, so please stay tuned. You
- 6 will hear the plans that they have evolved
- 7 relatively soon.
- The next plan for the Committee is a --
- 9 an evaluation or an assessment of -- of the --
- what has happened with the implementation of new
- 11 conditions that have been added to the RUSP. So,
- 12 again, over the next year, we also plan to take a
- 13 look at the impact of adding the more recently
- 14 approved conditions to the RUSP. We'll take a
- 15 retrospective look on how the implementations
- 16 have gone -- in particular, were the estimated
- 17 time frames accurate? Were there barriers and
- 18 challenges encountered that we did not anticipate
- 19 and that states did not anticipate in
- 20 implementing a new condition? Were there any
- unexpected challenges? We also want to take a
- 22 closer look at the clinical and public health

- 1 implications of adding conditions with known
- 2 delayed onset and severity. The Committee is
- 3 also working with HRSA to initiate these efforts.
- 4 Next slide. The future meeting dates are
- on this slide. The next meeting will be held on
- 6 November the 1st and 2nd, 2018. It will be an
- 7 in-person meeting at HRSA headquarters in
- 8 Rockville and available by webcast.
- There has been a change in the dates of
- 10 the spring 2019 meeting. It will be scheduled --
- it was scheduled for May 9th and 10th. It will
- now be held April 22nd and 23rd. So, those of
- 13 you who were planning for that meeting, please
- 14 note this change.
- It is -- it is expected that both of
- 16 these meetings -- that this meeting in April will
- 17 also be in person and available by webcast. And
- 18 the meeting dates for -- through 2020 can be
- 19 found on the Committee's website.
- So, meeting topics for today: We have a
- 21 presentation on risk assessment in newborn
- 22 screening, followed by a presentation on

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- 1 improving timeliness in newborn screening. We
- will have the workgroup updates and a report on
- 3 long-term follow-up in newborn screening and a
- 4 second report on technology in newborn screening
- 5 that have been underway for a period of time.
- Next slide. So, I'm going to turn this
- 7 over to Catharine, now, for some business about
- 8 the Committee. Catharine?
- DR. CATHARINE RILEY: Great. Thank you,
- 10 Dr. Bocchini. Good morning, everyone, and -- and
- welcome to those who have joined the webinar from
- 12 the many different time zones across the U.S. and
- 13 elsewhere. We know it's early for some of you.
- 14 So, thank you for joining us.
- I do have a few reminders and some
- 16 logistics to go over this morning. This advisory
- 17 committee's legislative authority is found in the
- 18 Newborn Screening Saves Lives Reauthorization Act
- of 2014. This legislation established the
- 20 Committee and provides the duties and scope of
- 21 work for the Committee.
- 22 However, all Committee activities are

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- 1 governed by the Federal Advisory Committee Act,
- which sets the standards for the establishment,
- 3 utilization, and management of all federal
- 4 advisory committees. As a committee member on a
- 5 federal advisory committee, you are subject to
- 6 the rules and regulations for a special
- 7 government employee.
- I also want to take this opportunity to
- 9 remind the Committee members that as a committee,
- we are advisory to the Secretary of Health and
- 11 Human Services, not to Congress. For anyone
- 12 associated with the Committee or due to your
- membership on the Committee, if you receive
- inquiries about the Committee, please let Dr.
- 15 Bocchini and I know prior to committing to doing
- 16 an interview.
- 17 I also must remind Committee members that
- 18 you must recuse yourself from participation in
- 19 all particular matters likely to affect the
- 20 financial interests of any organization with
- 21 which you serve as an officer, director, trustee,
- or general partner, unless you are also an

- 1 employee of the organization or unless you have
- 2 received a waiver from HHS authorizing you to
- 3 participate. When a vote is scheduled or an
- 4 activity is proposed and you have a question
- 5 about a potential conflict of interest, please
- 6 let me know as soon as possible.
- So, according to the Federal Advisory
- 8 Committee Act, all committee meetings are open to
- 9 the public. If the public wish to participate in
- 10 the discussion, the procedures for doing so are
- 11 published in the Federal Register and are
- 12 announced at the meeting.
- For this meeting, in the Federal
- 14 Register, we said there would be a public comment
- period, and for this meeting, we did not receive
- any requests to make an oral comment, and we also
- 17 did not receive any written comments ahead of
- 18 time. There is a brief section after lunch, and
- if there's anyone interested, please -- please
- 20 let us know by -- by raising your hand, and if we
- 21 have time, we'll be able to get to that. But,
- 22 again, we did not receive any requests ahead of

- 1 time.
- So, public participation should be
- advised that the Committee members are given
- 4 copies of all written statements submitted to
- 5 them ahead of time, and in this case, they didn't
- 6 receive any as none were submitted. Any further
- 7 public participation will be solely at the
- 8 discretion of the Chair and the DFO.
- So, before I move on, any questions from
- 10 the Committee?
- (No audible response)
- DR. CATHARINE RILEY: Okay. So, for the
- webinar, since this is a -- Oh, sorry, before we
- 14 -- before we go on, I see -- Dr. Berry, did you
- 15 have a question?
- (No audible response)
- DR. CATHARINE RILEY: Okay. We'll move
- on, but I think Dr. Berry had a question about
- 19 logging in. So, while we're holding that, we'll
- 20 move on.
- So, for Committee members, organizational
- reps, and speakers, please use the "raise hand"

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- 1 function if you have a comment or a question.
- 2 So, this is -- at the top of your screen, you can
- see the figure, and it has a little hand. You
- 4 can click on that to raise your hand. We'll note
- 5 that in the queue. So, once we've noted that,
- 6 the Chair, Dr. Bocchini, will call on you in
- 7 order of your request. We please ask that you
- 8 unmute your phone lines before providing comment
- 9 or question. Also, please remember to state your
- 10 first and last names every time you provide a
- 11 comment or question just so we can ensure proper
- 12 recording for the Committee transcript and
- 13 minutes.
- For all of the meeting attendees that are
- 15 watching the webinar and listening in, thank you,
- 16 again, for joining. We cannot receive audio
- 17 through the webinar, so you'll be able to hear
- 18 the webinar, but we cannot receive audio back.
- 19 So, there will be no functionality as far as
- 20 raising hands, et cetera.
- Okay. So, if -- I'm going to open up one
- 22 last time. If there's any questions from

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- 1 Committee members, organizational reps, or
- speakers that have an open line --
- 3 (No audible response)
- DR. CATHARINE RILEY: Okay.
- DR. JEFFREY P. BROSCO: Hi, this is Jeff.
- 6 I'm pressing the button. Are you not seeing it?
- DR. CATHARINE RILEY: I am seeing --
- 8 Yes. So, Dr. Brosco, go ahead.
- DR. JEFFREY P. BROSCO: Sorry, I just had
- 10 a request from the public to be able to
- 11 participate in -- in the webinar, and I wonder if
- we could send around a link for folks who want to
- 13 participate. They apparently tried to register
- 14 but were unable.
- DR. CATHARINE RILEY: They tried -- what,
- 16 they tried to register this morning, Dr. -- This
- is Catharine Riley. Were they trying to register
- 18 today?
- DR. JEFFREY P. BROSCO: Yes.
- DR. CATHARINE RILEY: Okay. If they
- 21 could send out the link -- Yeah. So, Dr.
- 22 Brosco, if you could -- if there are folks you

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- 1 know are interested, if you can have them email
- 2 Alaina Harris?
- DR. JEFFREY P. BROSCO: Alaina Harris,
- 4 okay. Thank you.
- DR. CATHARINE RILEY: Yes. And we will
- 6 get them connected.
- DR. JEFFREY P. BROSCO: Thank you.
- DR. CATHARINE RILEY: Okay. So, we have
- 9 -- I have Dr. Berry. Did you have a question?
- 10 (No audible response)
- DR. CATHARINE RILEY: Okay. And last one
- is Dr. Ostrander. Did you have a question? You-
- DR. ROBERT OSTRANDER: I just, early on,
- wanted to quickly mention -- this is Bob
- 15 Ostrander, Academy of Family Physicians -- just
- 16 to get people's ears perked up about our comments
- 17 from Follow-Up and Treatment, later on, based on
- 18 the Secretary's response to our addition of
- 19 adding SMA to the RUSP and the request for early
- 20 follow-up information on that condition. I think
- 21 that our comments from Follow-Up and Treatment,
- later, about some thoughts about trying to

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- 1 tighten that process up are going to be germane,
- and I just wanted to have people make that link
- 3 in their mind going forward.
- DR. CATHARINE RILEY: Okay, great. Thank
- 5 you, Dr. Ostrander.
- So, before I proceed, just a reminder:
- 7 There -- there is no functionality with the
- 8 webinar to communicate with, you know, myself or
- 9 -- or Dr. Bocchini. So, you can click the "hand-
- 10 raise" function. Other than that, we will have
- 11 to utilize the open conference line for
- 12 communication. So, I just wanted to offer that
- 13 reminder. Or you can email -- this is Catharine
- 14 Riley. You can email me or Alaina Harris if you
- 15 have questions or issues with the webinar as --
- 16 as we proceed.
- Okay, if no further questions -- I don't
- 18 see any other hands raised by Committee members
- or registered speakers -- I'm going to turn it
- 20 back over to Dr. Bocchini.
- DR. JOSEPH BOCCHINI: Thank you,
- 22 Catharine. We're ready to have the first

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- 1 presentation. This is on Risk Assessment in
- Newborn Screening. As you know, this has been an
- 3 issue that the Committee has been considering for
- 4 a period of time, and we've had a number of
- 5 presentations from stakeholders, and our
- 6 Laboratory Standards and Procedures Workgroup
- 7 have been involved with APHL in their work on
- 8 developing a -- a guideline with resources for
- 9 the states. And so, this morning, we will have a
- 10 presentation from Dr. Kelm concerning where we
- 11 are with this issue.
- Dr. Kelm is a Committee member, Chair of
- 13 the Laboratory Standards and Procedures
- 14 Workgroup. She is going to provide this update,
- and after this update, we will have time for the
- 16 Committee and -- and others to discuss possible
- 17 next steps or ideas for activities that the
- 18 Committee might pursue in this topic area.
- 19 So, Kellie?
- DR. KELLIE B. KELM: Yes.
- DR. JOSEPH BOCCHINI: Are you ready to
- 22 go?

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- DR. KELLIE B. KELM: I'm ready.
- DR. JOSEPH BOCCHINI: All right, go
- 3 ahead. The floor is yours.
- DR. KELLIE B. KELM: Excellent. So, next
- s slide, please. So, most of what I'm going to be
- 6 talking today is an update on newborn screening
- 7 risk assessment in the context of the discussions
- 8 that this committee has been having for more than
- 9 the past year.
- And we had a workgroup meeting on Monday,
- 11 July 30th, and we discussed many things,
- including the APHL risk assessment guidance
- documents that the Committee has heard about in
- 14 the past, an update from the CDC on their
- 15 progress with harmonizing newborn screening
- 16 assays. We heard some information from APHL on
- 17 the NewSTEPs data repository, as well as some of
- 18 the other things they've been doing to help
- 19 laboratories during their technical assistance
- 20 site visits and risk assessments. And, lastly,
- 21 we talked about some future direction. So,
- 22 that's what I'm going to summarize for you all

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- 1 today.
- Next slide. Next slide, please.
- DR. CATHARINE RILEY: Hi, Kellie, this is
- 4 Catharine Riley. We did advance the next slide.
- 5 Are you seeing it on your end on the webinar?
- DR. KELLIE B. KELM: Nope, I'm not. But
- 7 I can bring it up on my own computer and try to
- 8 keep along, but I'm still on the agenda slide.
- DR. CATHARINE RILEY: Okay. So, we're
- 10 going to go from the agenda slide to the
- 11 Committee discussion on cutoffs slide.
- DR. KELLIE B. KELM: Yeah.
- DR. CATHARINE RILEY: Okay, yep.
- DR. KELLIE B. KELM: So, just a reminder
- 15 -- just a reminder that there've been several
- 16 presentations to the Committee on newborn
- 17 screening and the process for setting cutoffs and
- 18 some of the challenges and limitations in -- that
- 19 laboratories experience, including biological,
- 20 analytical variability, et cetera. And so, we
- 21 had a series of -- of presentations in 2017, and
- 22 APHL started working on this risk assessment

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- 1 guidance document, and the outline of that
- 2 document was presented to our workgroup in August
- 3 of 2017.
- Next slide. So, after giving some very
- 5 high-level feedback in August to the outline, we
- 6 received a draft document for review, and the
- 7 Workgroup provided feedback in November. And the
- 8 draft document was widely provided to the newborn
- 9 screening community in January, and the Workgroup
- 10 noticed that many of -- most of the suggestions
- 11 have been addressed in the draft. And the
- 12 Workgroup provided additional clarifications to
- the first author, and that's Joe Orsini, who
- 14 provided that on to the -- the authors working on
- 15 the document.
- Next slide. So, just a reminder of what
- 17 had been discussed in February, sort of the
- 18 conclusion of the Workgroup, and what we had also
- 19 communicated to the Committee in our review of
- the document: The document does describe the
- 21 scientific process behind establishing and
- validating cutoffs. The document will be

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- 1 valuable to state newborn screening programs, a
- very good resource. APHL intends for this to be
- a living document and will revise the document
- 4 over time. It does not include best practices
- 5 for screening for all conditions, and it does not
- 6 harmonize newborn screening tests across states.
- 7 Next slide. So, just to recap what --
- 8 After a presentation of the current draft by Joe
- 9 Orsini to the Committee at our February meeting,
- 10 the Committee decided a vote was not required on
- 11 the document, acknowledged the document's value,
- 12 and recommended that APHL continue to refine and
- improve it. It was also agreed that the Lab
- 14 Standards and Procedures Workgroup should focus
- on what could be done to address public access
- issues and better ways to collect and store data
- on false positive results. And so, that was,
- 18 sort of, the last update that we had.
- So, about a week and a half ago, that
- 20 final document was provided to the Workgroup, as
- 21 well as -- as provided to the Committee, and at
- our July 30th meeting, Workgroup meeting, we

- 1 heard a brief presentation from the APHL on the
- 2 changes to the document and had more discussion
- 3 on -- on the document.
- Next slide. So, per feedback from the
- 5 Advisory Committee, a summary table was added and
- 6 highlights -- generally, the -- the -- the table
- 7 just takes highlights from the text and puts them
- 8 in a table that is easier to look at the
- 9 different types of methods for -- in terms of
- 10 what type of cutoffs -- fixed, floating,
- 11 multiples of the median, et cetera -- and their -
- what they're generally used for and some
- 13 functionalities and considerations.
- The QA/QC Subcommittee Workgroup also --
- out of APHL -- had consulted with experts in the
- 16 field on the different methodologies, had updated
- 17 these documents to reflect more accurate
- information on these methodologies. Also, there
- were changes to the document to, I would say,
- 20 update the -- the tone, and people felt that it
- 21 also -- the edits provided a better balance in
- 22 terms of discussing all the different methods and

- available technologies in the document.
- Next slide. So, the current status of
- 3 the document is that it's very close to a final
- 4 draft. Recently, the -- the group had resolved
- s several comments that they'd received asking for
- 6 additional clarifications, mainly from Mayo, in
- 7 terms of the section on CLIR. We -- they did
- 8 receive additional, recent comments from Stan
- 9 Berwick on some errors on the section of -- on
- 10 the -- the multiples of the medians, and so that
- 11 section will be updated. So, it's not quite
- 12 final yet, but the -- it's -- it's very close to
- 13 being final once those -- those comments are
- 14 addressed.
- So, as I said on a previous slide, this
- is a living document and will have changes made,
- 17 updates, as more information is made available.
- 18 And at this time, APHL plans to post it on their
- website in the very near future, they're hoping
- 20 within the next couple of weeks.
- So, that's the update on the document,
- 22 and I have a question for the Committee on -- on

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- 1 the document at the end of my talk.
- And so, we'll move on to -- next slide --
- 3 what we heard in terms of an update from CDC.
- 4 And so, this is, as we've heard before, part of
- 5 their Quality Assurance group and harmonization
- 6 activities, and so Kostas Petritis talked about
- 7 normalization of the MS/MS biomarker results when
- 8 he provided this update to the group.
- 9 Next slide. So, if you recall from his
- 10 previous presentation and what we've heard, also,
- in this discussion about cutoffs is, mass spec
- 12 biomarker measurements and -- and cutoffs can
- 13 vary significantly among different labs. And
- just a reminder that over 70% of the disorders on
- 15 the RUSP can be screened by mass spec. So, the -
- the -- the different analyte results in cutoff
- values varies, and the major contributors are
- 18 different extraction methodologies. You have
- 19 labs using derivatized versus non-derivatized
- 20 methods. Few labs account for analyte recovery;
- 21 most labs don't. And then, there's the use of
- 22 additional or different analytes per disorder or

- 1 second-tier screening and, of course, other
- 2 factors in populations, instrumentation, internal
- 3 standards, and calibration techniques.
- Next slide. So, Kostas actually showed
- 5 us, in the last -- in his presentation, how CDC
- 6 is performing this harmonization by getting state
- 7 labs' results with their QC materials, and then
- 8 they're using the proficiency testing results to
- 9 validate that their normalization process is
- 10 working. And so, this is just one of the slides
- 11 that Dr. Petritis showed us in terms of the
- different results, and then using that to
- 13 harmonize the results.
- Next slide. He also showed the before
- and after in terms of the results that we're
- 16 getting and how normalization improved the
- 17 difference amongst the labs when -- when they had
- 18 performed the normalization and showed that, for
- 19 example, an outlier, as shown in the circled dot
- in the right side, could be pointed out to the
- labs so they could reevaluate their cutoffs, even
- 22 -- because normalization would, obviously, really

- 1 expose the -- the potential outlier in terms of
- 2 cutoff here.
- So, next slide. So, we got a short
- 4 presentation on what CDC has been up to in the
- 5 last few months since their presentation on their
- 6 normalization project.
- Next slide. So, currently, CDC is
- 8 building a web interface to visualize the
- 9 normalization results, and this would -- would --
- 10 would be available to the laboratories for them
- 11 to be able to do this comparison for themselves.
- 12 And so, this is currently in design phase, but
- 13 they were showing us what they intend to be able
- 14 to present to the laboratories for them to come
- in and look at how they compare to other
- 16 laboratories.
- Next slide. In addition, they were
- 18 providing us updates that, obviously, they cannot
- do normalization for analytes that aren't
- 20 included in their QC materials. So, they are
- 21 working to add more analytes to their QC
- 22 materials. And so, their current production,

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- 1 which will be shipping early next year, will
- 2 contain the additional analytes listed in the
- 3 list below. And CDC is considering adding
- 4 additional analytes, including ASA and those
- other ones in the list down at the bottom, in
- 6 order to allow them to -- to normalize these
- 7 results in future -- in -- in -- in future time
- 8 periods.
- 9 Next slide. So, they did discuss some of
- 10 the limitations of this current process. So,
- using proficiency testing samples to confirm that
- normalization worked has provided proof of
- 13 concept but is not a long-term solution. This is
- only one measurement. Not all analytes are
- enriched in every proficiency testing event, and
- 16 some analytes are outside in the -- in the --
- 17 proficiency testing samples are outside the
- 18 dynamic range of the QC materials.
- And there was also some discussion by our
- 20 workgroup members that they would really like to
- 21 see clinical samples used in order -- because of
- 22 the different -- and limitations of PT samples.

- 1 And so, there was additional -- CDC's considering
- the creation of an additional QC specimen, with
- 3 all analytes set at CDC cutoff, to be used for
- 4 normalization and validation.
- And so, that's the update we got on what
- 6 CDC has been doing in this process for the last
- 7 few months since their first presentation.
- 8 So, next slide. So, we received an
- 9 update from Jelili from APHL on some of the
- 10 current work that NewSTEPs has been doing,
- 11 helping with quality improvement, that also helps
- 12 with cutoffs and risk assessment and also talking
- 13 about future activities for NewSTEPs.
- Next slide. So, just a reminder that
- 15 NewSTEPs has -- has several goals, and so I -- I
- wanted to include them all here and -- and --
- while we get to the one that helps with risk
- assessment cutoffs, but just a reminder that
- 19 their first goal is communication and outreach,
- 20 and they have a lot of activities, obviously, to
- 21 -- in -- in -- in that space.
- Next slide. Goal two is their role with

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- 1 continuous quality improvement and data-driven
- outcome assessments in newborn screening by
- 3 providing centralized data repository, their
- 4 dynamic data infographics and visualization
- tools, and supporting integration of HIT
- 6 frameworks, including HL7 messaging.
- Next slide. And, lastly, technical
- 8 assistance -- They have a technical assistance
- 9 resource center that proactively provides
- training, addresses challenges, and supports
- 11 program improvement, and a -- a large part of
- this is their comprehensive site reviews, as well
- as focus site reviews that they've been forming,
- where they send groups of experts to laboratories
- 15 that have requested the visits. And we know that
- in several instances, sites have actually
- 17 requested help in -- from these groups in, sort
- of, reviewing their process for establishing and
- 19 reviewing cutoffs and giving them feedback and
- 20 helping them work on their -- their SOPs and
- improving them and -- and having these experts in
- 22 laboratory -- lab procedures and follow-up has

- 1 been very helpful to laboratories in improving
- these processes.
- Next slide. So, NewSTEPs, which recently
- 4 awarded funding from HRSA, I believe, that will
- 5 be starting next month, and you notice that as
- 6 part of the quality improvement projects, there
- 7 are five focus areas for the funding, and number
- 8 two in that list is identification and follow-up
- on out-of-range results. And so, this is quality
- improvement, specifically in the area of cutoffs,
- 11 establishing cutoffs, validation, risk
- assessment, and assessing how well that's working
- in terms of follow-up and providing information.
- And, also, you know, we have had these
- discussions lately about improving assessments
- and collection of information on false negatives,
- 17 and what that may also mean for systems. So --
- 18 so, this -- this -- these activities will
- 19 probably be very helpful for laboratories as
- 20 NewSTEPs rolls out these activities.
- Next slide. And they also performed
- other activities, in this case, that CDC funded,

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- 1 as we've been talking a lot about the QA/QC
- 2 Subcommittee and their work on the risk
- 3 assessment document. They have other activities,
- 4 including education -- educational webinars,
- 5 providing information and help to labs as new
- 6 conditions are added to the RUSP, and other QA/QC
- 7 activities and -- and -- and providing that --
- 8 that help. And we've heard before -- previously
- 9 about the MBS Molecular Assessment program, and
- 10 this program provides site reviews addressing
- 11 molecular capability -- capacities, excuse me, in
- newborn screening programs, and there have been
- 13 22 program visits since January of 2011.
- So -- so, that's -- I -- I think we look
- 15 forward to hearing more from APHL and NewSTEPs
- about how the activities in this area are helping
- 17 laboratories as they work on, you know, adding
- 18 new conditions and -- and also, you know, working
- on SOPs, which the Committee recommends that --
- 20 that laboratories have in terms of how they are
- 21 establishing their cutoffs and validating their
- 22 cutoffs in a robust manner and revisiting those,

- 1 as well.
- So, next slide. So, as we've been having
- these discussions about, you know, the attention
- 4 that's been given to cutoffs the last, you know,
- s a year and a half to two years, one thing that
- 6 has come up in our discussions with the
- 7 Committee, as well, and -- and -- and members of
- 8 the Committee, which is the possibility of a
- g cross-workgroup effort involving people from the
- 10 Lab Standards Workgroup, as well as the Education
- and Training Workgroups. And so, what has --
- what has emerged is whether or not there's ways
- to communicate the strengths and limitations of
- 14 newborn screening to different audiences, because
- that seems to be a piece that is still missing as
- we have talked about the attention given to the
- 17 issues with cutoffs in the media.
- So, one of the ideas was to potentially
- 19 create some sort of a tool or product to educate
- 20 physicians, parents, and/or the public on newborn
- 21 screening, but some of the questions, since we're
- 22 just sort of talking about this possibility, is,

- 1 what would this look like, and who would be the
- 2 target. And so, this is something that we've
- just, really, sort of, scratched the surface on.
- 4 Next slide. What -- in our discussions,
- 5 what this has -- what we've envisioned in terms
- of a general message for any -- any of those
- 7 target groups would be: describing what is
- 8 screening, what is newborn screening, how newborn
- 9 screening is different from other types of
- 10 screening, and what are we trying to find. And
- 11 what other -- the other thing that has come out
- of our discussions is the idea -- in terms of our
- messaging for physicians, is adding more
- information on the limitations of newborn
- screening and reminding them to act on the
- 16 clinical signs and symptoms regardless of the
- 17 newborn screening result, you know, not to assume
- 18 that a negative is always a negative.
- So, this is something that has come up
- that, you know, we've also briefly talked to some
- 21 members of the Education and Training Workgroup
- on, but we would love to get some feedback from

- 1 the Committee on whether or not they think this
- 2 kind of product or -- would be something that
- 3 would be of interest to the Committee and of
- 4 interest to the general population but then, as
- 5 we said, you know, physicians, parents, public,
- 6 very, you know, different target groups in terms
- of knowledge, interest, experience, and training.
- 8 And we'd love to hear more from the Committee and
- 9 others on what they think about something like
- 10 this and whether or not it would help communicate
- 11 to those outside of newborn screening about all
- of these issues that we've been talking about for
- 13 the last two years.
- So, my next slide is the last slide. Our
- 15 -- so, our workgroup, we sort of ended with two
- 16 questions that we wanted to put in front of the
- 17 Committee for discussion at this point. So, you
- 18 know, we have -- and -- and the Committee has
- received pretty close to a final document on
- 20 APHL's risk assessment guidance document, you
- 21 know, provided to -- just a reminder of what we -
- 22 the Committee had concluded in February in

- 1 terms of the document, but we did want to ask
- 2 whether or not the Committee felt there was any
- 3 change in their recommendations in terms of what
- 4 to do with the document and whether or not there
- s was anything the Committee wanted to do with the
- 6 document.
- 7 And number two, the -- the question about
- 8 whether or not there was any interest by the
- 9 Committee in having a Lab Standards-Education
- 10 Training cross-workgroup, sort of pursuing
- 11 together creating this educational product in
- newborn screening for physicians, parents, and/or
- 13 the public. And so, that was our -- our second
- 14 question that we wanted to put in front of the
- 15 Committee for discussion.
- So, that's it for me. I'd love to hear
- 17 some feedback from the Committee. Thank you very
- 18 much.
- DR. JOSEPH BOCCHINI: Kellie, thank you.
- 20 That was a great presentation, and I think it
- 21 sets the stage for a good discussion from the --
- 22 from the Committee and the organizational

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- 1 representatives.
- So, let's open the discussion. Again,
- 3 use the "hands up" to indicate that you want to
- 4 ask a question or make a comment, and then we'll
- 5 -- we'll go through the list and move forward.
- I think the questions that Kellie has
- raised, I think, are really excellent, and I want
- 8 to frame them, also, in what we've spoken about
- 9 before as to what other things can the Committee
- 10 do or consider doing to try and -- and help this
- 11 APHL document get the -- the use that it -- that
- 12 -- that it needs, as well as help states in any
- way to make risk assessment work better. So,
- 14 let's open that to discussion.
- So, first question, comment, we have Dr.
- 16 Berry. So --
- (No audible response)
- DR. JOSEPH BOCCHINI: So, Sue, we can't
- 19 hear you. Is your line muted?
- FEMALE SPEAKER: And we do not have Dr.
- 21 Berry dialed in to the speaker line with an open
- 22 line. If -- Dr. Berry, if you are online, could

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- 1 you press "star 1," please?
- 2 (No audible response)
- FEMALE SPEAKER: And I am not getting a
- 4 response at all.
- DR. JOSEPH BOCCHINI: So, if Sue is
- 6 coming online, while we're waiting for that to
- 7 happen, let's go to Mei Baker.
- BAKER: Hello, can you hear me?
- DR. JOSEPH BOCCHINI: Yes, we can, Mei.
- DR. MEI BAKER: Great. I -- the -- in
- 11 terms of any changes from February 2018, the
- 12 recommendation -- and it just right now popped to
- my mind. I would like adding on one thing. I
- 14 think it's wonderful CDC, going forward, will
- make QC material for laboratory do the
- 16 validation.
- Also, I think, is it possible, when CDC
- obtained QC data from each lab, ask them that on
- 19 the report absolute numbers, can I -- can we also
- 20 ask for multiple of the median? Because this
- one, you naturally normalize each set of data,
- then do the comparison knowing where they are.

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- 1 And also, when return this data back to CDC, also
- 2 provide their multiple of the median, their
- 3 cutoff.
- So, this way, this -- I think this the
- 5 more efficient way to obtain the data, and CDC
- 6 can analyze them in the deidentified fashion.
- 7 And we all know our laboratory code. Then, we
- 8 receive the feedback and allowed us to see where,
- 9 you know -- each lab, where we are. Is something
- 10 durable? So, this is a -- I think it's a part of
- 11 the process that we can harmonize data, and I
- 12 feel multiple of the mean, maybe, is the -- the -
- 13 the way we do that.
- And second part I want to make some
- 15 comments -- I think Sue, actually, can make a
- 16 better comment. My understanding is, the Midwest
- 17 Genetics Group is underway develop a set CME
- 18 education data for primary care physician, and I
- 19 think all the effort should be collaborate
- together in standard, you know, reinvent the
- 21 wheel.
- DR. JOSEPH BOCCHINI: Thank you, Mei.

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- Sue, are you on? Sue Berry?
- DR. SUSAN A. BERRY: Yes, thank you. I -
- 3 sorry, I misunderstood about the issue on the
- 4 webinar. My apologies.
- DR. JOSEPH BOCCHINI: No problem. Go
- 6 right ahead.
- DR. SUSAN A. BERRY: I wanted to make the
- 8 Committee aware of a project that's being
- 9 undertaken in the Midwest Genetics Network, part
- 10 of the HRSA-funded genetics collaborative. We
- 11 have just had word from the American Board of
- 12 Pediatrics that our MOC4 educational activity for
- 13 physicians regarding education around newborn
- 14 screening is -- has been approved.
- 15 The -- there are basically three training
- 16 modules to this, and the three training modules
- are: an introduction to newborn screening and
- what it does and what it doesn't do; a -- and a
- module specifically on sharing results that are
- 20 negative and what that means for families and how
- 21 to share that information; and then the third
- 22 module is on giving back either so-called

- 1 borderline or positive results. And the idea, I
- think, really harmonizes with what's being
- 3 discussed for this educational product that --
- 4 that Kellie mentioned. We identified this based
- on a -- sort of a -- so the -- the Education
- 6 Committee has a -- a broad spectrum of
- stakeholders, included -- including families, and
- 8 they identified better education for physicians
- 9 in newborn screening as -- as an important
- 10 priority to them.
- 11 Obviously, they're a specialized group of
- 12 folks, most of the time, when we -- when we have
- 13 consumers in these genetics networks, but I -- I
- 14 think the -- the upshot of it is that -- that the
- use of -- of educational activities is really
- important. People -- the -- we -- we
- found, in studies, that where we've surveyed
- 18 physicians in our own area that despite, I would
- 19 say, relatively medically sophisticated
- 20 understanding that they typically didn't
- 21 understand the import of a negative screen and
- that that was something that really needed some

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- 1 highlighting.
- DR. JOSEPH BOCCHINI: Great. Sue, just a
- 3 follow-up question for you: For the MOC, you need
- 4 to be a member of the American Board of
- 5 Pediatrics to --
- DR. SUSAN A. BERRY: Yeah, unfortunately
- 7 our --
- BOCCHINI: -- take the MOC?
- DR. SUSAN A. BERRY: -- our first pass on
- it to get it out there, because we wanted to --
- we wanted to get it done. So, for the first
- 12 round of MOC4, we got it to APP because they
- 13 could get it through the process most quickly,
- 14 and we wanted to do that.
- Our plan with this set of educational
- 16 modules is to work with an additional provider to
- make those modules more generally available to
- 18 providers at other levels of training, so that,
- 19 for example, you could use it for PAs or as -- we
- 20 -- we're hoping to be able to connect with the
- 21 American Board of Family Medicine, for example,
- 22 the -- we -- so that this could be more generally

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- 1 available. We -- we wanted to make it available
- 2 as soon as possible to our pediatric colleagues
- 3 in our region, so that's where we started.
- DR. JOSEPH BOCCHINI: That's great, and
- 5 then, perhaps, maybe even through the -- for
- 6 residency training-program modules, as well.
- DR. SUSAN A. BERRY: Mm-hmm.
- BR. JOSEPH BOCCHINI: So, thank you --
- DR. SUSAN A. BERRY: Yeah, we'll --
- DR. JOSEPH BOCCHINI: -- that's great.
- So, next two Committee members are Scott
- 12 Shone and then he'll be followed by Beth Tarini.
- So, Scott?
- DR. SCOTT M. SHONE: Good morning. So, a
- 15 -- a couple things, and, Kellie, forgive me if
- 16 I'm not tracking with the entire presentation. I
- don't know if that's just because of the webinar
- or whatever, but it seems to me that -- that this
- 19 discussion, at least this morning, was a multi --
- 20 multi-faceted summary of some -- of -- of
- 21 different activities, and I just want to be sure
- 22 I'm clear on that.

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And so, the first is, the APHL document,

- which we've been taking about -- which I think
- 3 the final revisions have made it a lot stronger,
- 4 but that's around the discussion of current state
- of cutoffs and -- and -- and how programs do
- 6 that. But then Kostas is sort of painting a
- 7 picture for the vision of where states could go -
- 8 and programs, rather, could go with taking this
- 9 beyond just a cutoff discussion and maybe even
- 10 helping to harmonize analyses across -- across
- 11 the system with -- and -- and, again, please let
- me know if I'm misinterpreting this -- with the
- 13 goal of, you know, sort of trying to get a -- a
- case where if a baby's screened in one program or
- another program, the interpretation is the same.
- And the third is education of the
- 17 appropriate people within the system on this
- 18 topic and the topics associated with risk
- 19 assessment.
- So, I want to stop and make sure I have
- that correct, because I might have comments about
- 22 that.

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DR. KELLIE B. KELM: So, you -- you're
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- 2 correct, and I think that -- I think I should
- s have done a better job introducing that I think a
- 4 lot of the negative attention that was given to
- 5 the systems in terms of screening -- what we
- 6 heard was, you know, I guess several things: 1)
- you know, criticisms that the cutoffs weren't
- 8 appropriate and that they were missing babies, 2)
- 9 you know, the -- a lot of it was the fact that
- 10 different programs had different cutoffs and
- 11 different results. And I don't think -- while we
- often understand why that is, there, obviously,
- is also some interest in whether or not we can
- 14 figure out some way to -- to normalize those
- 15 results across states so that it makes more --
- 16 you know, it seems like the same results in
- 17 Alabama as what you're getting in Missouri,
- whether or not that's, you know, going to happen
- 19 or not.
- 20 And then, 3) you know, is there a way for
- us to provide some education, because a lot of
- 22 the information that was in some of those

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- 1 articles was incorrect or, you know, there is --
- 2 unfortunately, is some lack of knowledge about
- 3 newborn screening and the limitations, I mean,
- 4 getting that out in order to also address some of
- 5 the incorrect information but also just making
- 6 sure that we're providing the right information
- 7 out there.
- So, I think this is just addressing
- 9 several of the different topics that came up in
- 10 some of the media attention for newborn screening
- 11 that happened a couple of years ago. So --
- DR. SCOTT M. SHONE: Right.
- DR. KELLIE B. KELM: -- that's how I
- 14 tackled -- you know, we're -- we're sort of
- talking about activities to address each of
- 16 those.
- DR. SCOTT M. SHONE: All right. So, I --
- 18 to -- to the last point and, sort of, in terms of
- 19 the -- the education and training -- I mean,
- 20 we've had, at least since I've been a Committee
- member and -- and beyond -- and before that,
- there's been some great presentations by the

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- 1 Education and Training Workgroup, you know, Beth
- 2 and Cathy. Amy Gaviglio's given many
- 3 presentations, and I -- So, I think that these
- 4 topics have been addressed -- Genetic Alliance
- 5 has been involved -- around, you know, these
- 6 topics of information and who -- and who they
- need to go to.
- And so, I don't think -- I'm not sure --
- 9 and -- and, again, I might be reading this wrong
- 10 -- I'm not sure if I'm -- I'm understanding the
- 11 goal, but I think that -- that some of this is
- already in progress, and I don't know that the
- 13 Lab Standards Workgroup is going to contribute
- more to education than the Education and Training
- 15 Workgroup. And, perhaps, the idea is more of
- 16 assisting with dissemination of work -- of some
- 17 excellent work that's already -- already been
- 18 done or in progress. But -- but -- so -- so, I
- want to be cognizant of the amount of work that's
- 20 already been done on that -- on the education
- 21 topic by the other workgroups.
- But to the point of risk assessment, I

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- 1 mean, I -- I think that, you know, media
- 2 attention obviously brought -- you know, brought
- 3 the topic up, but the idea that there's
- 4 widespread misclassification of risk in the
- 5 newborn screening system -- I -- I don't think
- 6 anybody has ever said that. And so, some of
- 7 these efforts have been -- really made it
- 8 clarifying why programs do what they do and --
- 9 and -- and, also, how they do what they do. But
- 10 I want us to all be aware of that, you know, the
- work that's being done at CDC, the work that's
- 12 being done to develop other post-analytic tools,
- are helping to -- are -- are meant to help
- 14 hone and -- and refine that risk assessment, you
- 15 know, not only to avoid missed babies but to not
- 16 -- to not overcall positives.
- And so, I think, from a technical
- 18 assistance standpoint -- and -- and you -- you
- mentioned NewSTEPs -- there's an opportunity
- 20 there to -- to not only educate on why and what
- we currently do but build on what's out there to
- 22 go towards the future. And so, I don't want to

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- 1 get that lost in -- in this discussion around --
- 2 that I think that's --ultimately, the goal is
- 3 improving risk assessment and -- and not
- 4 suggesting that -- that -- that any of these
- 5 activities are -- are sufficient in terms of
- 6 just, this is how we do and why we do but rather
- 7 that the system is always trying to improve and -
- 8 and make sure that the right babies are
- 9 identified. And I'm not sure I'm articulating
- 10 myself clearly enough, though.
- DR. JOSEPH BOCCHINI: All right, thank
- 12 you. Beth, and then that'll be followed by Jeff
- 13 Brosco.
- DR. BETH TARINI: So, my -- my questions
- 15 actually follow from Scott's, and the first is to
- 16 ask, what does the Lab Standards Group think that
- is missing from the current strategy of
- 18 education? And what follows to answer that
- 19 question is, do we have a understanding of, what
- is the full landscape of what we are doing now.
- So, it sounds like -- and -- that APHL,
- 22 the Committee on Genetics and Public Health, is

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- working on this. Genetic Alliance is working on
- these issues. So, I'm now wondering if the first
- step is actually just to assess the landscape of
- 4 what we're actually doing, and then identify
- where there are either gaps which we're not
- 6 covering -- either content or audience -- or
- 7 whether -- and is it not an effective strategy.
- 8 So, that's my first point. And then my -- and --
- 9 and question.
- And then, my second is, the -- the -- the
- 11 concerns about newborn screening and its
- 12 portrayal in the media -- and I -- and I want for
- us to try to clarify, is this a perception issue,
- or is this an education issue, because there --
- 15 the distinction is important. If we are trying
- 16 to change perception from the public, then I
- 17 think our strategies may be different than if we
- 18 are trying to change behaviors of physicians and
- 19 parents.
- 20 And I'm not saying which one we should be
- 21 doing, but -- but I think -- For instance, I
- 22 would argue that we have -- we, often, are in an

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- 1 echo chamber, and I don't think a lot of our
- 2 information is getting out into the lay public.
- 3 And if that is the problem, no matter how many
- 4 education tools we create, they won't get to the
- 5 lay public. I mean, then this issue of getting
- 6 into the media, having conversations with
- 7 reporters -- which has come up in our workgroup,
- 8 and -- and Catherine is, I know, looking into
- 9 this -- I -- I think that has to be considered as
- 10 part of a strategy. Otherwise, I don't know that
- we've pierced the veil into the public with --
- with the current educational strategy we have.
- DR. KELLIE B. KELM: Yeah, this is --
- 14 this is Kellie, and I think -- I -- I think your
- 15 first point is especially useful, that in some
- 16 ways, what we almost need to do is understand the
- 17 landscape. And I do think that, for example,
- 18 also finding out more information about
- 19 activities that are out there -- for example,
- 20 what Dr. Berry talked about -- are -- are things
- that we would probably, you know, really need to
- assess before we ever build into, you know,

- 1 thinking that there was some need for some other
- 2 product, but, you know, your second point
- 3 obviously is -- is extremely valid, as well.
- DR. JOSEPH BOCCHINI: All right, next is
- 5 Jeff and then --
- DR. JEFFREY P. BROSCO: Yeah, Jeff
- 7 Brosco.
- 8 DR. JOSEPH BOCCHINI: -- followed by Mei
- 9 Baker.
- DR. JEFFREY P. BROSCO: So, I -- I -- I
- 11 agree with and just wanted to emphasize what
- 12 Scott had said, and -- and some of what Beth
- said, as well, that we -- we do want to be
- 14 careful not to start making new policy or making
- 15 big, new initiatives for what might be a -- a --
- a small problem in terms of the number of -- of
- 17 children who are missed. So, I think that's a
- 18 really -- a good point that Scott made we've been
- 19 trying to make all along.
- 20 And as Beth was pointing out, there is a
- 21 huge amount going on already, and, you know, of
- 22 course, Genetic Alliance and Baby's First Test,

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- 1 there's a lot of trying to help people
- 2 understand. And my one suggestion is that we
- 3 want to think as much as we can about just-in-
- 4 time information, and -- and that is that the --
- 5 the information education happens at the moment
- 6 that either the -- that the person actually needs
- 7 it.
- 8 And one opportunity for that, I think --
- 9 and my colleagues in Florida may -- may scream
- when they hear this, but when the test results
- 11 get sent out to -- to the pediatrician or to the
- 12 hospital, it seems to me that every state
- 13 probably does something a little bit different on
- 14 how much information they provide. And it might
- 15 be that a good explanation of what those results
- mean and don't mean at that moment -- So, if,
- 17 every time a pediatrician or a family doc got the
- 18 newborn screening results, there was a clear
- 19 statement about, you know, what this means, what
- 20 the chances of false positives and false
- 21 negatives are, that might be a way to do ongoing
- 22 education at the moment when a provider needs it

- 1 the most. And that's just one example of trying
- 2 to think about education in terms of just in
- 3 time, at the -- the moment someone needs it.
- 4 Thanks.
- DR. JOSEPH BOCCHINI: All right, next is
- 6 Mei Baker, followed by Melissa Parisi.
- DR. MEI BAKER: I just want to -- after
- 8 Sue's comments, I want to emphasize: I -- I -- I
- 9 feel strongly is, indeed, we need general
- 10 population education, but I think we perhaps
- shouldn't expect all the parents to understand
- all the nuance of the scientifical things behind
- 13 the whole cutoff will come about, and I do feel a
- 14 primary care physician is a very, very important
- 15 group.
- And to go back to Jeff was saying, in-
- 17 time information: that's because most of the
- newborn screening laboratory or program, we do
- not have a direct relationship with the parents.
- 20 And our primary care physicians are the people.
- 21 And the -- in -- in terms of trying to figure out
- 22 is address the perceive or behave or education, I

- 1 feel, due to the -- the foundation base is
- 2 important is why I feel the work through the
- 3 letter is so important, because this is
- 4 continued-education based, and, also, other
- 5 profession organizations, which is the target,
- 6 get involved.
- 7 Another thing I feel: If we have this
- 8 module available become part of the package of
- 9 continue education, so it's -- it's ongoing.
- 10 It's not a one-time effort. So, I feel, very
- 11 strongly, emphasize for our primary care
- 12 physician is so important because they're our
- window or our channel to the family. And, also,
- 14 usually, primary care physician have
- 15 relationships with family. What they say, family
- 16 likely has the trust, has the belief. So, how
- 17 they are relating information to the family is
- 18 terribly important. If they have a fully good
- understanding what the newborn screening mean --
- what's the pros, what's the cons, what's the
- 21 limitation -- so they can relay to family in a
- 22 more accurate way --

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So, I -- I -- I really think -- I
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- think if the material the Committee members want
- s to have a chance to review -- and that's good. I
- 4 just feel -- agree with Scott, with Beth, was
- 5 that we -- we came in and say we do activities
- 6 and -- but we need to assess what the outcome,
- 7 too.
- DR. JOSEPH BOCCHINI: Thank you, Mei.
- 9 Melissa Parisi, and then Sue Berry back
- 10 again.
- DR. MELISSA PARISI: Hi, this is Melissa
- 12 Parisi. I just wanted to make a comment about
- 13 the public-education efforts, and this sort of
- 14 stems from some of the discussions at an NBSTRN
- meeting that was just held yesterday and the day
- 16 before. And -- and, really, keeping in mind the
- value of reinforcing the importance of retention
- of dried blood spots for public-health-related
- 19 purposes, for research purposes, and for, you
- 20 know, just in general, the value of these spots
- 21 as a resource for the future.
- So, I know we obviously want to ensure

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- 1 that the public is educated about newborn
- 2 screening, what it does and what it doesn't do --
- 3 and -- and I think, by extension, the public --
- 4 I'm also including physicians and caregivers,
- 5 who, you know, are going to be encountering these
- 6 incidents, but I also think we want to not forget
- 7 about some of the additional value of this whole
- 8 program and the value of the dried blood spots
- 9 for future purposes.
- I mean, we know that there has been a
- 11 very negative campaign waged against retention of
- dried blood spots, and, you know, the tragedies
- that have occurred in Texas and Minnesota with
- 14 regard to destruction of all those spots -- you
- 15 know, we can't forget about that. And whatever
- 16 types of educational efforts, I would like to see
- 17 that they at least include some acknowledgement
- of the value of this -- of this really precious
- 19 resource.
- DR. JOSEPH BOCCHINI: Thank you. Sue
- 21 Berry, and then Beth Tarini.
- DR. SUSAN A. BERRY: This is Sue Berry.

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1 As the materials are made available for a -- for

- the MOC4 use, I'm certain that the Education
- 3 Committee and the Midwest Genetics Network would
- 4 be happy to share that information for comment
- s and -- and -- and just so you can see what we're
- 6 doing and to see if it's of more general utility
- 7 for further use. So, we -- the -- the obvious
- 8 purpose is to make that a generalizable resource.
- DR. JOSEPH BOCCHINI: Thank you. Beth?
- DR. BETH TARINI: So, I have a proposal
- 11 for us to consider, which is based on the fact of
- 12 Jeff's point about one -- one-time -- or just-in-
- 13 time information and Mei's point about the
- 14 primary care providers. And the fact is, as we
- all know, these are rare occurrences, I would
- 16 say, generally, in a physician's career. So,
- 17 educating them -- I -- I think baseline education
- is important, but I think it will not overcome
- 19 the fact that the education muscle is not going
- to be used frequently, because these physicians
- just will not see enough of these in their career
- to, sort of, be superb in their retention of the

- 1 knowledge base.
- So, back to, then, what the states can do
- 3 and what Jeff mentioned. I'm wondering if this
- 4 committee can provide recommendations to the
- 5 programs on what types of information should be
- 6 included in those documents that send -- are sent
- 7 out from the states to the providers with the lab
- 8 -- with the newborn screening results, so that --
- 9 You know, they can design them however they want,
- 10 they can use whatever language they want, but
- 11 that some core elements, which this committee
- 12 could come up with, should be included in those
- documents, because those are the documents that
- the physicians are A) most likely to see and B)
- most likely to use because they are attached to
- 16 the results themselves.
- DR. JOSEPH BOCCHINI: Thank you.
- DR. MEI BAKER: This is Mei. I have a
- 19 question to ask. What's this different than ACT
- 20 Sheet?
- DR. BETH TARINI: So, the ACT Sheet -- I
- 22 quess, A) if the ACT sheet is -- I don't know the

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- answer, because I don't know what the content we
- want to be in is, if the content differs from the
- 3 ACT sheet. So, that would be the first thing to
- 4 look at: Are the ACT sheets currently sufficient
- 5 in what the Committee thinks should be included
- 6 on this disclosure -- or on these forms, for
- 7 instance, A), and then B) if that is -- if they
- 8 are, then do we recommend that all states use the
- 9 ACT sheets?
- DR. JOSEPH BOCCHINI: So, one of the --
- DR. BETH TARINI: Because acting --
- 12 because acting -- let me -- let me just finish.
- 13 I -- I just thought of something. Because they
- 14 need -- the -- the key is, the information needs
- to be all together when that, I assume, fax comes
- 16 through. You cannot expect -- well, you can
- 17 expect, but I believe you will be sorely
- 18 disappointed if you think that physicians will go
- online, in large number, to get the ACT sheets.
- 20 I think it's -- it's -- it's a matter of, sort
- of, user design, everything at the fingertips.
- 22 So, I think if we think the ACT sheets are

- 1 sufficient, then we must encourage the programs
- to include them when they fax out the results.
- DR. MEI BAKER: Very good point.
- DR. JOSEPH BOCCHINI: The -- the other
- 5 thing, Beth, just to follow up, is that,
- 6 certainly, the product that the Education and
- 7 Training Workgroup has been -- has developed to
- 8 go along with the ACT sheets, in terms of how to
- 9 provide information to the parents, certainly is
- 10 a step in the direction of providing that
- information that you are talking about. That --
- 12 that might help with the just-in-time approach to
- 13 give what is needed, and I -- I don't know how
- much that product addresses the kind of things
- we're talking about today.
- DR. BETH TARINI: Yes, and I guess that's
- 17 the question, that -- that what we've worked on
- 18 and what the communication of it -- well, what it
- 19 -- what the content of it is now, does that
- 20 contain, with the ACT sheets, everything the
- 21 Committee thinks the physicians should know?
- 22 Again, this gets to my original point, which is,

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- 1 we may already have the content and the tools,
- 2 and they may just need to be tweaked in the
- 3 content and/or their delivery. So, I -- I think
- 4 -- I think that the -- but the first step is to
- s assess, what are the core elements of education
- 6 that have to be given to the physicians at the
- 7 time of the results.
- DR. JOSEPH BOCCHINI: Yep. Sue Berry?
- DR. SUSAN A. BERRY: This is Sue Berry.
- 10 Two comments: I hear about the just in time for
- 11 positive results. I want to emphasize that one
- of our elements of education -- and I think it's
- 13 a very important one -- is, while -- So, what
- 14 I'd say is, while getting a positive result is a
- 15 rare event in a physician's or a care provider's
- 16 life, getting negative ones is not.
- 17 And one of the things we wanted to
- 18 emphasize, as an opportunity to educate the
- 19 public, is that point of contact as a plan for
- 20 mediated and understood education about newborn
- 21 screening: You know, you've got -- you -- your
- 22 lucky baby has a negative test. We're very

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- 1 thrilled that your baby is safe and healthy
- 2 because of this wonderful public health thing.
- 3 You know, screening isn't perfect. You know, we
- 4 still need to keep -- be vigilant for your baby's
- 5 health.
- Those kinds of things happen every day in
- 7 physicians' office, or should, and -- and that's
- 8 another opportunity to, sort of, raise awareness.
- 9 So, a -- a -- a critical element in this
- 10 educational process has to be education about the
- 11 process itself. I think that's one of the things
- 12 Mei was emphasizing.
- The second thing I'd comment on is that
- there's a whole new cohort of specialty
- 15 physicians, who have never really thought very
- much about newborn screenings, who are suddenly
- 17 encountering it: the immunologists, who now have
- 18 to do with -- deal with newborn screening results
- 19 for SCID, the neurologists who are suddenly now
- 20 going to have to hear about SMA results. And so,
- 21 there's another facet of education that I just
- want to put on the table as long as we're putting

- 1 those on the table, although I don't think that's
- 2 the direct target of the conversation today. I
- just don't want us to forget that there's a whole
- 4 new cohort, in addition, that requires some
- 5 quidance and information about the utility of
- 6 newborn screening.
- DR. JOSEPH BOCCHINI: Thank you. Now we
- 8 have comments or questions from organizational
- 9 representatives. I have Bob Ostrander first,
- 10 then Natasha Bonhomme, and then Susan Tanksley.
- So, Bob?
- DR. ROBERT OSTRANDER: First of all, when
- we're talking about an educational initiative to
- 14 remind physicians who receive test results that
- there are such things as false negatives, and
- they should not ignore symptoms, I think it's
- 17 very important, if we're going to do that, that
- in the same presentation, we remind people that
- 19 these are screening tests that need confirmation.
- 20 If you just talk -- talk about the possibility of
- 21 false negatives, the logical thought of the
- 22 person receiving that message is going to be that

1 all positives are true positives, and that is an

- 2 equal problem.
- And it's interesting: You know, I -- I
- 4 have been working on educational projects with
- 5 family physicians, lecturing and -- and sessions,
- 6 and for some reason, the -- the fact that newborn
- 7 screening is a screening test -- It seems to be
- 8 separate in everybody's mind from other screening
- 9 tests we deal all the time -- with all the time,
- 10 like mammograms and colon cancer screening, where
- these principles are fairly obvious. So, you
- 12 know, again, I think you need to -- if you're
- 13 going to address the false negatives, you've got
- 14 to address the -- the fact that these are
- 15 screening tests and that positives need
- 16 confirmation.
- A second issue is, I just would affirm
- 18 that we should try to pull all these different
- 19 efforts together on this and not have a whole
- 20 bunch of siloed projects that are slightly
- 21 different, one from the other. The AAFP doesn't
- have, kind of, a specific thing on newborn

- 1 screening that we're disseminating widely as part
- of certification or anything. I mean, I gave a
- 3 lecture recently to a national meeting about it,
- 4 but I -- I think we should work together. And
- s again, there's a -- we're working on this -- the
- 6 Education and Training Workgroup is working on
- 7 this, how to deliver news, and I think a lot of
- 8 that gets incorporated with this.
- The other issue I'm just going to mention
- in terms of the AAFP is, this is always hard to
- 11 get on -- on radar, because the family pregnancy
- 12 community has broad education on genetics and
- 13 genomics, and when we were talking, I just looked
- up what the syllabus is for our self-assessment
- module on genetics is, and it's -- for family
- 16 docs, an awful lot of it's on the adult stuff:
- the 23andMe, cancer genetics, family cancer
- 18 syndromes, and all that. So, you know, on our
- end of the world, it's going to be a little bit
- 20 harder push, I think, than for the pediatricians,
- 21 but I'm willing to continue to lead the charge.
- 22 And most importantly -- and I think this

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- 1 is probably the thing where the Committee should,
- 2 I mean, exert whatever pressure it can, is -- I
- 3 agree with whoever it was that said, having this
- 4 little educational blurb, in a just-in-time
- format, when the result comes is going to be
- 6 critical, because we're not going to get traction
- 7 with publishing white papers or sending out
- 8 modules and -- or even, necessarily, having
- people try to go to the ACT sheets when they get
- 10 the positive results. So, you know, if -- if we
- 11 could do or facilitate the production of a
- 12 suggested little blurb that we could disseminate
- 13 to the state labs and -- and encourage them to
- include that when they send test results, both
- 15 positive and negative, I think that's probably
- where we would have our biggest impact.
- DR. JOSEPH BOCCHINI: Thank you for the
- 18 comments, Bob.
- Natasha Bonhomme?
- MS. NATASHA F. BONHOMME: Hi, can you
- 21 hear me?
- DR. JOSEPH BOCCHINI: Yes, we can. Go

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- 1 ahead.
- MS. NATASHA F. BONHOMME: Thank you. So,
- 3 there's been a lot covered that I could speak to,
- 4 but two pieces, one in terms of the document that
- 5 could explain, you know, returning results and
- 6 what they mean. This is something that, through
- 7 Baby's First Test, our state workgroup has
- 8 created, and it is currently going through the
- 9 final stages of review with our Community and
- 10 Consumer Workgroup, so that it has been viewed by
- 11 experts on both the technical lab side as well as
- experts on the family experience side. So, once
- that's ready, we are happy to share that with
- 14 anyone and everyone that's interested in it.
- And I think that's just an example of the
- 16 fact that there are so many initiatives and
- 17 documents and things being created, particularly
- around education, that having that effort already
- been done, it'll be really great to see, how do
- we pull all of that together and also look at it
- 21 from more of a health communications-
- 22 communications science perspective.

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And what I mean by that is that it isn't

- just about having the information be accurate but
- s that we also understand how we're going to get it
- 4 into the -- into someone's hands so that they
- 5 read it, they digest it, and they know what to do
- 6 with it. And I think that's a really critical
- 7 piece and, oftentimes, the piece that people
- 8 don't spend as much time on but is, kind of, the
- 9 main thing. It's great to create something, but
- if it doesn't go anywhere, and the same people
- just keep reading the same things, then we really
- 12 aren't moving the needle.
- And I think, as we're continuing this
- 14 discussion, for me, it was really hard to track
- if we're talking about a media issue, which is
- one thing, an education issue, which is another
- 17 thing, or -- or/and are we looking for a certain
- 18 type of behavior change. Those are all different
- and really need different approaches. So,
- 20 depending where the Committee goes in terms of
- 21 how this is prioritized and how it's addressed, I
- really encourage you to look at it from that

- viewpoint, as well, because through Baby's First
- Steps, that's really what we've learned in our --
- you know, the site's, I guess, now seven years
- 4 old -- in working on this, that it's about having
- 5 both the concrete content but also how it's going
- 6 to get out there and the health communication
- 7 science behind it, so. And as always, I'm always
- 8 happy to help with any of those initiatives and
- 9 bring the experiences that we have into that.
- 10 So, thank you.
- DR. JOSEPH BOCCHINI: Thanks, Natasha. I
- 12 think I'd like to -- I think that all three of
- 13 those elements are -- are components of what we
- 14 need to consider. So, I think that's a really
- 15 good way to put it.
- So, up next is Susan Tanksley, then
- 17 Debbie Freedenberg, and then Beth Tarini.
- DR. SUSAN M. TANKSLEY: Hi, this is Susan
- 19 Tanksley. Can you hear me?
- DR. JOSEPH BOCCHINI: Yes, we can. Go
- 21 ahead, Susan.
- DR. SUSAN M. TANKSLEY: All right. So,

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- why I originally raised my hand was because I
- wanted to emphasize that -- like Dr. Berry did,
- 3 that I think the issue here is more about those
- 4 results that come back and appear to be normal,
- or negative, however you want to term them, and
- 6 the response of the person receiving those
- 7 results, so the pediatrician, and how that
- 8 information is understood and relayed to the
- 9 family then.
- The point that Natasha just brought up,
- and -- and I think Beth also brought it up, was
- 12 the question of, you know, what is it that we're
- 13 looking at? Is it the media issue? Is it an
- education issue, and is the behavior change
- needed? And I think the answer is, it's all
- 16 three of those.
- So, the reason this issue initially came
- up was because it was a media issue, and some of
- 19 the stories that were told, you could -- you
- 20 could tell from reading them that it was the
- 21 response of the physicians that could have been
- 22 different and would have changed the outcome.

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- 1 And so, therefore, I think that there, you know,
- 2 is the education issue that we've been talking
- 3 about, and that is back to, what is a -- what
- 4 does a normal screening result mean, and what
- 5 does it not mean? And that behavior change
- 6 needed is, I think, based on education that would
- 7 be provided.
- 8 DR. JOSEPH BOCCHINI: Thank you, Susan.
- 9 Debbi?
- DR. DEBRA FREEDENBERG: Morning. Sorry,
- 11 I have some technical challenges here.
- But -- so, most of what I wanted to
- 13 comment on has -- has already been said, but what
- 14 I wanted to emphasize is that we hear, over and
- over again, we invest a lot in education across
- the whole spectrum of newborn screening
- 17 stakeholders, and we still have the same concerns
- and issues as the rest of the country does in the
- 19 response to the screening test. And we have
- 20 heard -- even on positive screens, we have heard,
- over and over again, from various programs and
- various parents that the pediatrician or the

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- 1 primary care's response was that: If something's
- wrong, the lab would have contacted me, or the
- 3 program would have contacted me, or somebody
- 4 would have contacted me; so, I'm not taking
- 5 action on this. You know, for us, we have
- 6 internal follow-up, and we can handle that, but
- 7 I've seen it, over and over again, across the
- 8 country.
- So, part of that discussion is truly what
- 10 a negative test means but -- as well as raising
- 11 awareness that just because you didn't get a
- 12 special contact, however your state's running it,
- that you still have to be cognizant of that
- 14 child's symptoms or lack of symptoms and that
- 15 child's risk.
- DR. JOSEPH BOCCHINI: Thank you. Now I
- 17 have Beth Tarini, Scott Grosse, and Mei Baker.
- 18 Beth?
- DR. BETH TARINI: So, one reminder, and I
- 20 -- I bring this up often during my E&T Workgroup
- 21 meetings, is that we are a committee with no
- 22 funding -- I mean limited, depends how you want

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- 1 to define the funding, but -- but these projects
- 2 -- I agree that these are all problems, but
- 3 sometimes we get a little -- I -- I worry we get
- 4 a little -- you know, we're going to, you know,
- 5 resolve world peace. That doesn't mean I don't
- 6 think we should reach for the sky. I think we
- 7 should dream large but with realistic
- 8 expectations that -- that -- that our workgroups
- 9 and our committee do not have funding to do
- 10 robust projects.
- 11 That being said, I think we could
- 12 leverage the existing -- and I always say this in
- 13 the education community -- the same resources,
- 14 connections, that are rich in this committee and
- its workgroups, so -- and be very mindful of,
- again, what we're already doing and -- and how
- 17 that can be leveraged. And so, maybe, on the
- 18 heels of this, it would be helpful, at the next
- meeting, to have the stakeholders from -- who are
- 20 already engaged in educational activities at
- 21 APHL, at Genetic Alliance, at CDC, present what
- is actually the landscape and what we're actually

- 1 doing already.
- DR. JOSEPH BOCCHINI: All right, thank
- 3 you.
- 4 Scott Grosse?
- DR. SCOTT GROSSE: Hi, Scott Grosse. I
- 6 had suggested to Kellie and the workgroup at APHL
- 7 that the endocrine disorders could use more
- 8 attention. Most of the report focuses on
- 9 metabolic disorders, and I think that's very well
- done, but the most common disorder in newborn
- 11 screening is congenital hypothyroidism. And
- 12 there's a lot of variability across states and
- 13 how it is done, including one screen versus two
- 14 screens, because there's a recent MMWR article
- 15 from Utah which points out that many children are
- identified on a second screen in that state that
- would not be identified on the first screen.
- And so, more discussion about the sources
- of variability for the congenital hypothyroidism,
- 20 I think, would be of great interest, maybe a
- 21 topic for future discussion. Thank you.
- DR. JOSEPH BOCCHINI: Thank you.

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- 1 Mei Baker?
- DR. MEI BAKER: Yeah, I just wanted to
- 3 quickly share my reflection with this very -- I
- 4 feel very rich discussion, and that if it can
- 5 view -- I mean, myself, take-home message for the
- 6 discussion is, I feel there's not a single way we
- 7 can accomplish what we want to accomplish. I do
- 8 feel, due to foundation, it's important.
- 9 It's why I feel Sue's work is very
- important, because that is, in a fashion, non-
- 11 biased and a very comprehensive medically to help
- 12 primary care physicians build a foundation, what
- a newborn screening, how, what -- and false
- 14 positive/false negative all be comprehensive, but
- with this, adding on the in-time information --
- 16 because we don't expect, at that moment you have
- 17 screening positive report in your hands, you just
- would use one sheet. You can have 40 on the
- 19 standard newborn screening system. So, I think
- 20 it is combination.
- But also, I really think Natasha make so
- 22 important a point is communication signs. So, we

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- 1 -- you think about ourself, NewSTEPs, APHL,
- 2 because we don't have direct connection with the
- family, direct connection with the primary care
- 4 physician. We can do the best is create
- s material, but the material you create is not get
- 6 to the people we want to reach, and I think can
- 7 be inefficient. So, I -- I just feel like all
- 8 the pieces are there, how we link them together,
- 9 and I think will be better to get where we need
- 10 to be.
- DR. JOSEPH BOCCHINI: Thank you.
- And then, Natasha?
- MS. NATASHA F. BONHOMME: So, hi. I
- 14 think the one -- two pieces I wanted to bring up
- is, you know, we did talk about the investment in
- 16 education, and I would challenge that we invest a
- 17 lot considering when you look at other large-
- 18 scale campaigns, it's always the education piece
- 19 that is the multi-million-dollar, multi-multi-
- 20 year approach.
- 21 And so, we have to think of it from that
- viewpoint, as well as the fact that education

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1 can't just happen once. People are having babies

- 2 every day. People are going into the health
- 3 profession every day. And so, it's something
- 4 that's ongoing, and so, just putting that within
- 5 that context --
- And then, also, just to reiterate in
- 7 terms of the point of the provider education: It
- 8 is really important that we make sure that the
- 9 messages that are going out to health providers
- 10 are not just compatible but complementary to the
- messages that we're putting out to families,
- because so often, we know that healthcare
- 13 providers are looking for not just the general
- 14 concepts of what to say to families but the exact
- 15 language around it. It's why there is such a
- 16 high usage of Baby's First Test by health care
- 17 providers, so we really target towards families.
- And so, when we are down the line in
- 19 thinking about how to get this information out
- there and how are we going to engage health
- 21 professionals in making sure they have what they
- 22 need, to really look at their behaviors of how

- 1 they get information, and, again, not speaking
- about the specialists who are deep in newborn
- 3 screening but all the people, as I believe it was
- 4 Sue Berry who was saying, that people who haven't
- 5 been trained around this, who didn't realize this
- 6 would be on their plates, but they are because of
- 7 the conditions that we are now screening for.
- 8 So, just a bit more food for thought as
- 9 the Committee determines what the next steps are
- 10 and -- and how we will be seeing -- what are the
- 11 key questions in this we -- you need to address,
- and how will we be addressing them. Thank you.
- DR. JOSEPH BOCCHINI: Thank you, Natasha.
- 14 I think this has been a really excellent
- discussion and, I think, gives us much food for
- 16 thought on -- on next steps. And -- and I think
- 17 that it's clear that the Lab Standards Workgroup
- 18 has contributed significantly to the APHL
- document, as well as to education back and forth
- with the full Committee, and we're going to see
- 21 how that document gets finalized, but I -- I
- 22 think that it is near -- near coming out on it --

- on the APHL website. And it looks like QI
- 2 projects are now going to be coming forward
- 3 through APHL that will help enhance the -- the
- 4 efforts that will be made to utilize the
- 5 resources that are on that document.
- And it looks like, from our discussion
- 7 today, that the focus is really, now, for us,
- 8 more on, how do we -- how do we educate the
- 9 media, the -- the parents, the public, and
- 10 providers on how to get the correct messages out
- about newborn screening, how to interpret
- results, and, most importantly -- I think, maybe,
- 13 Susan Tanksley mentioned this, about
- 14 understanding -- having providers and parents
- 15 both understand that newborn screening is
- important but that a normal test doesn't rule out
- a condition. And so, that -- I -- and I think
- 18 that -- that's -- that's probably the most
- important message, I think, that all providers
- 20 should learn when they're taking care of patients
- 21 who come in with acute symptoms.
- So, I think we need to continue to have

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- 1 the Lab Standards Workgroup look at what's coming
- 2 from APHL and the Education and -- and Training
- 3 Workgroup continue to evaluate, as Beth
- 4 indicated, perhaps, first step, maybe looking at
- 5 the landscape and then coordinating efforts with
- 6 -- with Natasha and -- and -- and others to try
- 7 and -- and -- and not work independently, when we
- 8 can cross-fertilize what -- what we're doing in -
- 9 in a variety of different areas. So, I want to
- 10 thank everybody for a really good discussion, and
- 11 I think that helps us move forward.
- 12 And then, lastly -- this is not directly
- 13 related, but from what Scott mentioned about the
- 14 hypothyroidism, the article that he mentioned is
- included in your briefing book so that Committee
- members can certainly look at that, and then we
- 17 can certainly consider that for future meetings
- 18 to kind of -- to look at that and see how that
- 19 fits with, perhaps, going forward.
- So, that'll conclude this session, and
- now, we're going to take a short break. I think
- we are pretty much on schedule, so we'll come

- 1 back at 20 minutes after the hour -- that's 11:20
- 2 Eastern Time -- and continue with the next
- 3 presentation. So, everybody take a short break.
- 4 We'll see you back in about seven or eight
- 5 minutes. Thank you.
- 6 (Whereupon, the above-entitled matter
- 7 went off the record and then came back on.)
- DR. JOSEPH BOCCHINI: All right, welcome
- 9 back, everybody. This is Joe Bocchini. I've
- 10 been reminded that each time anyone speaks that
- 11 even though I've called your name, that you need
- 12 to give your first and last name for the people
- who are recording the session.
- So, everybody's back on board. Let's
- 15 continue with the meeting. Next, we have a
- 16 presentation from Marci Sontag.
- DR. CATHARINE RILEY: And this is
- 18 Catharine Riley. Just, we are having a little
- 19 bit of technical difficulty. Dr. Sontag, we're
- 20 trying to pull up your slides now if you can give
- 21 us just a moment. Thank you.
- DR. MARCI SONTAG: No problem.

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- 1 (Period of silence)
- DR. CATHARINE RILEY: This is Catharine
- 3 Riley again. Thank you, everyone, for your
- 4 patience while we pull up the next of the slides.
- 5 (Period of silence)
- DR. MARCI SONTAG: Catharine, this is
- 7 Marci. We can see the slides online. I'm not
- 8 sure if there's just a problem in the room?
- DR. JOSEPH BOCCHINI: We are not able to
- 10 see them at the moment, but --
- DR. CATHARINE RILEY: So, Marci --
- DR. MARCI SONTAG: Okay.
- DR. CATHARINE RILEY: -- you're saying
- 14 you can see them?
- DR. MARCI SONTAG: I can see them.
- DR. CATHARINE RILEY: Okay, great.
- DR. JOSEPH BOCCHINI: Okay. So, just
- 18 some -- a couple of Committee members, can you
- 19 see them, as well?
- DR. SCOTT M. SHONE: Yes. This is --
- 21 FEMALE SPEAKER: I can see them.
- DR. SCOTT M. SHONE: -- Scott Shone.

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1 UNKNOWN SPEAKER: I can see them online,

- 2 yep.
- DR. JOSEPH BOCCHINI: Okay. Well, then,
- 4 we'll go ahead and get that started, and then
- 5 we'll do our best to try and fix it in -- in the
- 6 home office here.
- So, Dr. Sontag is the Director of the
- 8 Center for Public Health Innovation at CI -- CI
- 9 International. She's also the Director of
- 10 NewSTEPs 360 and will be sharing with us today
- 11 several videos that have been created by state
- newborn screening programs in conjunction with
- the families that they serve in their states.
- 14 Embedded in Dr. Sontag's presentation are three
- videos related to timeliness. She will be giving
- us the story behind these stories, why and how
- 17 these videos were created, and how they can help
- us spread the word about the importance of
- 19 timeliness in newborn screening.
- So, Marci, the floor is yours.
- DR. MARCI SONTAG: Thank you so much.
- 22 I'd like to thank you, Dr. Bocchini, and the

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- 1 Committee for inviting me to speak today. We --
- we have spent a lot of time with this committee,
- 3 talking about the data and what we know about the
- 4 data from our timeliness efforts, our efforts to
- s improve timeliness in newborn screening, and now
- 6 I'm going to spend some time today talking about
- 7 some of the work that's happened behind the
- s scenes that some of you may not know about, some
- 9 of which is displayed in videos, as Dr. Bocchini
- 10 has already introduced, and then others -- and
- 11 some other tools that have been developed by
- 12 NewSTEPs 360 and our -- the states that we are
- 13 partnering with.
- 14 This slide demonstrates -- or displays an
- infographic that really shows the complexity of
- 16 NewSTEPs 360. In the center, you see a clock
- 17 that is the very little representation of what
- we're trying to fix here, that timely newborn
- 19 screening, and in that gray, inner circle there,
- 20 you'll see 12 icons that represent the activities
- of NewSTEPs 360 and what we do within this
- 22 project.

So, starting at 12:00 and then moving

- 2 clockwise, you see we have quality improvement
- 3 coaching, we have our online data repository at
- 4 NewSTEPs.org, the CQI framework with the PDSA
- study -- study and act cycle. We have annual,
- 6 in-person meetings that we have conducted at
- 7 3:00, technical assistance, financial assistance
- 8 that's provided directly to the states to help
- 9 improve timeliness, the monthly all awardee
- webinars at 6:00, connecting newborn screening to
- 11 -- programs to partners in other states -- and
- 12 look at that network that has been developed and
- 13 the community that -- that has been developed
- with NewSTEPs 360 -- data visualizations to
- monitor progress and change -- and you have seen
- some of those presented to this committee already
- 17 -- the facilitation of learning collaboratives to
- 18 identify common solutions at 9:00. We have tools
- and resources that are both developed by and
- 20 provided to state newborn screening programs,
- 21 and, finally, a community for sustainability at
- 22 11:00.

On the outer ring, you see some of the

- 2 ways by which states have attacked the timeliness
- 3 problem. They're providing education to
- 4 hospitals, midwives, birthing facilities to help
- 5 collect newborn screening samples earlier.
- 6 They're expanding courier services, such that
- newborn screening samples can arrive to state
- 8 labs faster, increasing the lab hours so that
- 9 state labs can test newborn screening samples
- sooner, and within that, they're also working
- 11 efficiently within their lab processes and
- improving those lab workflows to then get those
- 13 results to the doctors faster. They also are
- implementing -- implementing HIT systems that
- 15 help them to share that data in a more efficient
- manner, such that those results get out, and
- individuals can act on behalf of that baby, and,
- ultimately, babies' lives are saved.
- Next slide. We all know that newborn
- 20 screening -- timely newborn screening is
- 21 critical, and we've spent much of our time within
- the discussions of this committee talking about

- 1 how important that timely newborn screening is,
- 2 but I want to spend just a moment looking back to
- 3 where we have come from.
- 4 Next slide. We know that this has been -
- 5 discussions have been coming to this committee,
- 6 very driven by parents and advocates, since --
- 7 Oh, I'm sorry, can you go back in the -- We were
- 8 just talking about that one. Thank you so much.
- 9 And it was the parents' public comments to the
- 10 Secretary's Advisory Committee, as highlighted
- 11 here on the Baby's First Test webpage, that
- 12 really brought national attention to this issue
- of how important this timely newborn screening is
- and that while newborn screening has worked so
- well for most babies, there have been cases in
- 16 which that timely -- lack of timeliness or a
- 17 delay in the system has led to a tragic result.
- 18 So, we really -- we must go back to the advocates
- and parents who have helped us to recognize this
- 20 is such a critical problem.
- 21 That received some -- those problems
- 22 received the national attention in the Milwaukee

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- 1 Journal Sentinel in 2013, and following that and,
- really, in conjunction with that, this committee
- 3 continued to talk, and that -- those Journal
- 4 articles really regalvanized our efforts, and
- 5 this committee then developed newborn screening
- 6 timeliness goals that state newborn screening
- 7 programs are using. At NewSTEPs, we are using
- 8 those to help set goals for state newborn
- g screening programs and have focused our efforts
- 10 so we're working toward one common goal across
- 11 the country.
- Next slide. Within that, HRSA developed
- a funding opportunity, and this was before
- 14 NewSTEPs 360. This is what I will call a newborn
- 15 screening timeliness mini CoIIN, and the CoIIN is
- a Collaborative Improvement and Innovation
- 17 Network, or a learning collaborative. In this
- 18 case, it was specifically developed to improve
- 19 timeliness through the newborn screening system.
- Next slide. This CoIIN was run in 2014
- 21 and 2015 and was an 18-month effort in which 8
- 22 programs participated. We had five members from

- 1 each of those state newborn screening programs on
- 2 each team, and each team was required to include
- 3 a hospital representative. This could have been
- 4 a representative from a hospital association or
- someone who works closely in a hospital on
- 6 newborn screening and could speak to the
- 7 challenges of education and collecting timely
- 8 newborn screening samples in an appropriate way
- 9 and shipping them in a timely way to the newborn
- 10 screening lab.
- 11 It's important to note for this that
- 12 there's no direct state funding. While we paid
- 13 for these states to travel to APHL for in-person
- 14 training, there was no direct funding for
- 15 projects. The states did learn continuous
- 16 quality improvement techniques and were trained
- on those and then how to apply those to their own
- 18 local projects.
- One of the key elements of any CoIIN --
- 20 and one thing we're especially proud of with this
- 21 particular CoIIN -- is the connections that were
- 22 made. There was one -- there was one in-person

- 1 meeting, as I mentioned, where they received
- training. Then, there were monthly coaching
- 3 calls in which our coach checked in with these
- 4 states and developed a plan for continuous
- 5 quality improvement. He had monthly webinars, in
- 6 which all eight programs gathered together to
- n share their successes, share their challenges and
- 8 failures, and what we learned from each other.
- And one thing I can say about this
- 10 particular CoIIN is, the connection that those
- 11 eight states made was really -- was really
- 12 remarkable. And we did that a lot by focusing on
- 13 virtual engagement: How do we make sure that
- 14 people are engaged even when on a webinar or on a
- 15 phone call? And we have learned that the lessons
- 16 from this really have brought up capability.
- So, next slide. With that, I'm going to
- introduce our first video, and this was from this
- mini CoIIN, and we asked these eight states that
- were participating to share their lessons learned
- with us in a short video that they recorded on
- 22 their iPhones and sent in to us -- or their other

- 1 smartphones. You can go ahead and play the
- 2 video.
- DR. CATHARINE RILEY: Dr. Sontag, this is
- 4 Catharine Riley. So, we are loading the video.
- 5 It should start shortly.
- DR. MARCI SONTAG: Thank you.
- 7 (Video plays)
- 8 UNIDENTIFIED SPEAKER: There's no sound.
- 9 FEMALE SPEAKER: So, Catharine, we're not
- 10 hearing any sound on this.
- 11 (Video plays)
- FEMALE SPEAKER: Keep at it. Be patient
- and diligent, and never give up.
- 14 FEMALE SPEAKER: Number nine: Have a
- 15 strategy. There are many right ways to approach
- 16 timeliness. Spend your time on the smart ones
- 17 that will work within your paradigm.
- 18 FEMALE SPEAKER: Number eight: Focus on
- 19 your high-volume providers first. They can make
- 20 a big impact on your outcome quickly.
- MALE SPEAKER: Number seven: Keep in
- 22 mind, this is for the babies. Some needed

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- 1 changes won't affect the outcome data, but they
- 2 are the right thing to do for the newborn.
- FEMALE SPEAKER: Hi, everyone. Number
- 4 six: Don't forget maintenance. Maintaining
- 5 timeliness is just as difficult as when you get
- 6 timeliness started. Don't forget: Maintenance is
- 7 important.
- 8 MALE SPEAKER: Number five: Talking to
- 9 and learning from other states is so important.
- 10 FEMALE SPEAKER: Number four: Find out
- what is happening in other places. Don't assume
- 12 you know what other departments are doing, and
- investigate the current processes.
- 14 FEMALE SPEAKER: Number three: Help
- others understand the impact of timely newborn
- 16 screening on the families. Don't assume everyone
- 17 knows why timeliness is important. Start with a
- 18 why.
- 19 FEMALE SPEAKER: Number two: Remember to
- 20 include all the newborn screening partners within
- 21 the state that impact timeliness.
- FEMALE SPEAKER: To ensure timely newborn

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- screening, it takes a team and champions from
- 2 each unit in the hospital, including nurses, lab
- staff, quality improvement managers, and don't
- 4 forget the couriers. And speaking of champions --
- 5 (Drum roll)
- FEMALE SPEAKER: Education and feedback
- 7 to the partners is key. Once providers are made
- 8 aware of the reasons for timeliness initiatives,
- 9 they will run with it. Be prepared for an
- 10 increase in data requests and technical
- 11 assistance.
- (Video ends)
- DR. MARCI SONTAG: So, thank you so much
- 14 for showing the video. Catharine, we weren't
- able to hear any sound on the webinar, but this
- one worked well without sound, and I'd like to
- 17 give a quick shout out to all of those who
- 18 participated in this video. And I'm sorry we
- 19 couldn't hear your voices, but we were able to
- 20 read what you said. But, hopefully, we can
- 21 figure out the sound before we get to the last
- 22 two videos, because I'm not sure they are going

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- 1 to have the same impact without sound.
- So, I will continue on with my
- 3 presentation --
- DR. CATHARINE RILEY: All right, Marci --
- 5 Sorry, this is Catharine Riley. Did you say, on
- 6 your end, you couldn't hear any sound?
- DR. MARCI SONTAG: I couldn't.
- DR. CATHARINE RILEY: Okay.
- DR. MARCI SONTAG: I've gotten some
- 10 texts, and some of them said they did have sound.
- 11 I know some people did not have sound. So, I
- don't know, maybe it's on the --
- MALE SPEAKER: No --
- DR. MARCI SONTAG: -- computer you have
- sound, and on the phone you do not. Maybe that's
- 16 the challenge.
- DR. CATHARINE RILEY: Sure. Okay. Thank
- 18 you for the clarification. So, for the folks --
- 19 the Committee members, organizational reps, and
- 20 speakers -- who are both on the webinar and on
- 21 the conference line, we did ask you to mute your
- 22 speakers to -- you know, so there isn't feedback.

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- 1 So, during the -- the viewing of the videos, for
- 2 the Committee members, org reps, and speakers,
- 3 you will have to unmute your -- For anyone on
- 4 the phone, anyone who's called in, yeah, you'll
- 5 have to unmute --
- FEMALE SPEAKER: Understood.
- DR. CATHARINE RILEY: -- to hear.
- FEMALE SPEAKER: Mm-hmm.
- DR. CATHARINE RILEY: Yeah, thank you,
- 10 and -- and we will pause --
- DR. MARCI SONTAG: Great.
- DR. CATHARINE RILEY: -- for that before
- 13 we view the next video.
- DR. MARCI SONTAG: Perfect. Thank you,
- 15 Catharine. That's --
- DR. CATHARINE RILEY: Thank you.
- DR. MARCI SONTAG: I'm glad to know that.
- 18 Okay.
- So, we'll move on to the next slide. And
- 20 so, following up on the success of that mini
- 21 CoIIN, HRSA announced a newborn screening
- 22 timeliness quality improvement initiative, and

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- 1 this was announced at the same time that this
- 2 committee was finalizing those goals for -- and
- 3 voting on the goals for our -- our timeliness.
- 4 So, three years of funding that was announced was
- 5 CQR10-based (phonetic) and state-based projects,
- and this time, those state-based projects did
- 7 come with funding for states. So, they could
- 8 tackle something that they knew was a challenge
- 9 within their states and have some funding to
- 10 support that to make those changes that are
- needed. So, with 24 programs -- or there
- currently are 24 programs encompassing 28 states
- 13 that were funded, and, again, our key to success
- on this is a collaboration between the states,
- the partners, and the NewSTEPs and NewSTEPs 360
- 16 staff that is working with them.
- Next slide, please. As mentioned
- 18 earlier, each team chose their own focus area,
- and there's a missing hospital in the upper left
- 20 corner, but this is the -- focus areas could be:
- 21 the education within the hospitals, getting them
- to collect those samples, getting the samples to

- the laboratories faster, working on laboratory
- 2 processes, working within data systems to improve
- 3 how data is shared, and then, finally, that
- 4 follow-up process to get those results out to the
- 5 pediatricians and the subspecialists.
- Next slide. And we know that we've seen
- 7 -- there are -- have been great improvements in
- 8 timeliness. While we're still not completely
- 9 there, we still have work to be done, the
- 10 timeliness efforts that have gone into this --
- 11 the efforts that have gone into improving
- 12 timeliness have really made great improvements in
- 13 the system, and tens of thousands of babies -- or
- 14 hundreds of thousands of babies are being
- 15 screened earlier throughout the country, with
- 16 those results being reported out in a more timely
- 17 fashion. You saw those data presented by Mr.
- 18 Joshua Miller in November of 2017, in a
- 19 presentation to the Secretary's Advisory
- 20 Committee, highlighting that interim success.
- 21 And so, as we know, it takes a village of unsung
- 22 superheroes.

Next slide. Here's a picture -- or some

- 2 pictures of those unsung superheroes, and just a
- s few of them, at one of our NewSTEPs 360 in-person
- 4 meetings. You see them sitting at a roundtable,
- s rolling up their sleeves, and really diving into
- 6 the challenges of newborn screening and fixing
- 7 the timeliness problem.
- And this is just a small snapshot of the
- 9 people who are working on this -- this challenge
- 10 throughout our country. You think of all of the
- 11 people who are on our phone, the people who are
- working in hospitals, birthing centers,
- 13 laboratories, working for the couriers, working
- in follow-up. There's a network of people
- working to ensure that individuals -- individual
- 16 babies that are born with these life-threatening
- 17 disorders have the best chance through a timely
- 18 newborn screening.
- Next slide. One of the tools that has
- 20 been developed by this network of individuals is
- a timeliness toolkit, and we've done this in
- 22 partnership with the March of Dimes and ASTHO.

- 1 And this toolkit has really been developed to
- 2 help states work towards having expanded courier
- 3 service and more operating hours, or expanded
- 4 operating hours, within their state newborn
- s screening programs. And I'd like to give a quick
- 6 shout out to Sarah McCaffin (phonetic) for her
- 7 efforts in pulling this timeliness toolkit
- 8 together. This is available at NewSTEPs.org, and
- 9 if you haven't already seen it, I would highly
- 10 encourage you to do that.
- Next slide. And now I want to take just
- 12 a moment to talk about what we do at our -- our
- in-person meetings. This is our final NewSTEPs
- 14 360 in-person meeting. As mentioned earlier and
- as you saw in the snapshots of people at the
- meetings, we have opportunities for networking,
- 17 for sharing ideas and solutions, really bringing
- 18 state newborn screening programs together. And
- 19 this is a picture of -- this is half of the room
- 20 at our last meeting of bringing those people
- 21 together to share ideas and solutions.
- 22 Individuals are getting up early, staying up

- 1 late, and talking over dinners and happy hours
- about how we can improve the newborn screening
- 3 system.
- At this particular meeting, we also had a
- 5 focus on skill building. Some of the examples of
- 6 that is, we had workshops and breakouts on
- 7 budgeting, on building the process maps, and on
- 8 storytelling to share that story of our successes
- 9 in newborn screening. And what we found is,
- 10 there are so many successes in our program, and
- we are working so hard to make those successes
- 12 happen, that -- that sometimes, we don't have
- 13 time to share those stories. And sharing the
- 14 stories of the successes helps to get buy-in from
- our legislators, the decision-makers within
- 16 states, from families, from advocates, and it
- 17 also helps us to celebrate our own successes.
- Next slide. So, one of our skill-
- 19 building sessions was a video-production skill
- 20 building. Many state newborn screening programs
- 21 proposed to develop videos specific to their
- 22 states, so they can share those successes and

- 1 stories, or maybe they use those videos for
- training purposes. And hiring a video-production
- 3 crew can cost a lot of money and be outside of
- 4 the budget of a typical newborn screening
- 5 program.
- So, we brought this group in to help
- 7 demonstrate how to develop an inexpensive video
- 8 and give them those tools of, what can you do
- 9 with a video with just your smartphone and a few
- other tools that might cost \$300 or \$400 total,
- and then how do you pull that story, that
- interview, together with a few simple skills.
- 13 So, it was about a 45-minute breakout session
- 14 that helped to arm our state newborn screening
- 15 programs with those skills.
- Within that process, we wanted to
- 17 demonstrate how this could be done and what those
- 18 results of a video just done by your iPhone or
- 19 with a smartphone -- what that could look like.
- 20 So, this group, Denver Film and -- Denver Film
- 21 and Digital created a custom video that's
- thanking newborn screening professionals.

- Next slide. Now I'd like to introduce
- that video, and we played this video to kick off
- s the beginning of our last NewSTEPs 360 meeting as
- 4 a way to bring everyone together and to say:
- 5 Thank-you for all the work that you have done.
- 6 So, with that, I would like to start the video.
- DR. CATHARINE RILEY: Okay, Dr. Sontag.
- 8 So, we're going to pull up the video, and just to
- 9 remind Committee members, org reps, speakers, and
- anyone listening in on the phone: If you have
- muted your speakers for the webinar, if you could
- 12 go ahead and unmute those, and, hopefully, that
- will solve the issue of folks being able to hear
- 14 that. So, we'll load that now.
- (Period of silence)
- DR. CATHARINE RILEY: Hi, this is
- 17 Catharine Riley again. (Audio feedback). If you
- unmute your computer speaker, you should be able
- to hear the video, and we'll go ahead and get
- 20 that started.
- 21 (Video plays)
- FEMALE SPEAKER: Hello?

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- DR. MARCI SONTAG: Catharine, this is
- 2 Marci. Can you all see the video?
- DR. CATHARINE RILEY: Hi, Dr. Sontag,
- 4 this is Catharine Riley. Are you -- I think we
- 5 have some folks that say they cannot hear the
- 6 video; is that correct?
- 7 (Off-the-record conversation)
- 8 (Video plays)
- 9 FEMALE SPEAKER: My younger son was born
- in 2012. He was several pounds lighter than his
- 11 brother and came two weeks early but was still
- 12 perfectly healthy at birth. When he was three
- days old, we took him home from the hospital; it
- was then Friday night. We had a big family
- dinner, and we'd just finished singing Happy
- 16 Birthday to the new baby and were cutting slices
- of cake when I heard my husband's phone ring, and
- it was our pediatrician who was calling. He had
- 19 gotten a call from the Colorado newborn screening
- 20 follow-up team that said our son had screened off
- 21 the charts for a rare, genetic, metabolic
- 22 condition called medium-chain acyl-CoA

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- 1 dehydrogenase deficiency, or MCAD.
- FEMALE SPEAKER: It was probably, like, a
- 3 day or two after she was born. We -- you know, I
- 4 took her to her pediatrician, you know, and they
- 5 did her -- her newborn testing. And when I first
- 6 found out, I was just told that, Your daughter,
- 7 I'm sorry to let you know, has sickle cell
- 8 disease; her hemoglobin is not normal by any
- 9 chance. And that was just the start of our
- 10 journey.
- MALE SPEAKER: We got the phone call, and
- 12 I wasn't home; his mom was. And then, she called
- me and said, Something's wrong with Mason. We
- need to get him in right away; it's urgent. And,
- 15 you know, of course, I didn't know what to think,
- and I didn't know that it was from the testing at
- 17 that point. And so, we took him back in and had
- 18 to get the retest token (sic) from it, and that's
- when we found out he has hypothyroidism.
- FEMALE SPEAKER: So, Noah died about
- 21 10:00 p.m. on June 30th, 2009. And then, we got
- 22 the call probably about 10:00 the next morning

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- 1 from the pediatrician. He had heard what had
- 2 happened and also gotten his newborn screening
- 3 test results back and realized that the
- 4 information had come too late.
- DR. PETER BAKER II: The newborn screen
- 6 happens with every -- almost every pregnancy and
- 7 delivery in the United States, let alone the
- 8 state of Colorado. It's a test that nobody
- 9 thinks about, but when it's done the right way,
- 10 it saves lives. When it's done the wrong way,
- 11 lives can be lost. And so -- and part of that
- 12 depends on timeliness.
- MR. JOSHUA MILLER: Really, we've seen
- 14 the biggest, I think, improvement in terms of the
- time from specimen collection at the hospital to
- 16 receiving the specimen at the newborn screening
- 17 laboratory, which is a huge component to
- 18 improving timeliness.
- DR. PETER BAKER II: I try to keep it in
- 20 mind that each result we get back is a child;
- it's a life, and it's a life that we can
- 22 potentially save. And so, I don't take that for

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- 1 granted, never.
- MR. JOSHUA MILLER: It means saving the
- 3 very thing that probably means the most to every
- 4 parent out there, and -- and that means the world
- 5 to me. That -- that makes what we do with
- 6 NewSTEPs very fulfilling.
- 7 FEMALE SPEAKER: I'm -- I'm incredibly
- 8 grateful for the steps that this community has
- 9 made towards making this a priority and trying to
- 10 head off stories like mine from ever happening.
- 11 That is the way that it should be, and I love
- 12 their commitment to this, just as -- as strong as
- mine has been.
- 14 FEMALE SPEAKER: We -- I don't know where
- we would be without these newborn screenings. I
- think that we would be lost and probably in a lot
- of hurt and pain.
- MALE SPEAKER: Mason, he's normal. He's
- 19 a six-year-old, he's a handful, and he's -- he's
- 20 perfect.
- 21 FEMALE SPEAKER: Newborn screening made
- 22 all the difference in our life. We have a child

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- 1 who grew and developed normally. Thank you for
- what you do. Thank you for giving families
- 3 information that they need to keep their children
- 4 safe. We are grateful for you every single day.
- 5 (Video ends)
- DR. CATHARINE RILEY: We're going to
- 7 switch back to your slides now.
- DR. MARCI SONTAG: All right, thank you,
- 9 and I apologize for any technical difficulties.
- 10 If you would like to watch that video again, I
- would encourage you to do so. It's on our
- website, at NewSTEPs.org. And the message from
- 13 that video -- you know, we had family advocates -
- and these are advocates who have been very
- 15 active. Some of them have come to speak at this
- 16 committee meeting. Some have been very closely
- involved in the Baby's First Test Challenge
- 18 Awards and other advocacy efforts with Baby's
- 19 First Test. But you, hopefully, were able to
- 20 hear them speak from the heart and say thank you
- 21 for all that you do, and thank you for the effort
- 22 that you put in, and they're really grateful for

- 1 all of the work that you do every day.
- Next slide, please. So, you can see some
- 3 of those family advocates here in that last
- 4 slide, and you might not be able to see the
- 5 emotions in their faces here. This is at the
- 6 closing of our meeting at NewSTEPs 360. We
- 7 invited the families to come and watch a
- 8 screening of this -- this video, and this was the
- 9 first time they had seen it. And you could see
- 10 the emotion in their eyes and the -- the -- the
- 11 gratitude they have for all of the work that is
- 12 happening among this community.
- So, I want to take a moment and thank all
- of you on this committee and all of you who are
- 15 listening on the webinar for all that you do for
- newborn screening and on behalf of these babies.
- 17 The -- the army of people that are helping to
- make the system better is just inspirational.
- So, the meeting closed with our final
- video and -- and a thank you, and these families
- came in and gave roses to everyone who was in the
- 22 room to say, Thank you for all that you do.

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- So, with that, let's try -- this is our
- 2 final video. Next slide or final video, either
- one. And as they're setting that up, just
- 4 remember that there are many families out there,
- s and I know many of you don't actually get to see
- 6 those families, but they are very grateful for
- 7 all of the work that you do in newborn screening.
- DR. CATHARINE RILEY: Thank you, Dr.
- 9 Sontag. This is Catharine Riley, again, and
- we're pulling up the last video, and we will also
- make sure that these are available on the
- 12 Committee's website, posted along with your
- 13 slides, for people viewing, as well.
- DR. MARCI SONTAG: Thank you so much.
- DR. CATHARINE RILEY: Go ahead and get
- 16 this started. Thank you.
- 17 (Video plays)
- 18 FEMALE SPEAKER: To the community that
- 19 has worked so hard to make this dream a reality:
- 20 I just want to say, thank you so much from the
- 21 bottom of my heart. It's incredibly validating
- 22 that my story was heard and respected along with

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- other families that have been through similar
- situations as me. To know that this is something
- 3 that you value, as well, and are willing to bend
- 4 heaven and earth to make happen for -- for the
- s children of our country -- So, thank you for --
- 6 I know that it's hard, and it's expensive, but
- 7 you guys have done it and continue to be
- 8 cognizant of -- of, you know, the importance of
- 9 timeliness. I just -- Thank you, thank you,
- 10 thank you.
- 11 FEMALE SPEAKER: But we thank you, you
- 12 know, for everything that you guys have done to
- 13 try to, you know, make it easier and more
- 14 accessible for us to know what our children could
- 15 potentially go through.
- MALE SPEAKER: Thank you for doing the
- 17 newborn screenings. It's changed our lives and
- 18 given us the son that we have today.
- GROUP OF SPEAKERS: Thank you.
- 20 MALE SPEAKER: Thank you.
- 21 FEMALE SPEAKERS: Thank you.
- 22 ADULTS AND CHILDREN: Thank you.

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1 CHILD: And thank you for saving my

- 2 brother's life.
- 3 (Music plays)
- 4 (Video ends)
- DR. MARCI SONTAG: So, really, very
- 6 little else needs to be said. Thank you, all,
- 7 for all that you do.
- 8 I'd like to go to my last slide and give
- 9 a few thank yous, starting with: Thank you to the
- 10 Committee for allowing us to present this and our
- work on NewSTEPs 360. We are very grateful to
- 12 all the newborn screening programs who have
- joined with us for this effort. I'd like to
- 14 thank the families who were involved in this
- video, Denver Film and Digital for making the
- video, our NewSTEPs CoIIN team, the eight states
- 17 that initially participated, the 360 state and
- 18 regional teams, and our teams, both in Colorado
- 19 and at APHL, who have worked so hard in -- on our
- 20 NewSTEPs efforts. And, finally, I'd like to
- 21 thank our funders at HRSA.
- 22 Thank you very much, and I'd be happy to

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- 1 take any questions.
- DR. JOSEPH BOCCHINI: Marci, thank you
- 3 for this presentation. I think the story behind
- 4 the story is, really, pretty dramatic and really
- 5 highlights the amount of work that's necessary to
- 6 make the changes that are necessary to make the
- goestime state of system work but also shows us the final outcome,
- 8 which is what we're all -- what we're all focused
- on, which is to improve the outcome for the
- 10 newborn baby. So, thank you. Great.
- Let's go ahead and open this for any
- 12 questions or comments. I think we can spend a
- 13 few minutes before we go to lunch if anybody has
- 14 questions or comments for Marci or on what they
- 15 just saw.
- DR. MARCI SONTAG: Dr. Bocchini, while
- we're waiting for questions, I wanted to also let
- 18 everyone know that these last two videos have
- 19 been viewed, kind of, in a similar way to what we
- 20 have -- we did with our NewSTEPs 360 meeting.
- 21 And we've had states who have viewed this in
- their newborn screening advisory committee

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- meetings to thank them for the work that they're
- 2 doing, at other stakeholder meetings to really
- 3 get that word out that it does take a village,
- 4 and every piece of that village is important.
- 5 So, it's a -- it's a way for all of you, as well,
- 6 to be able to use that and say thank you to your
- 7 stakeholders.
- BOCCHINI: Thank you. Any
- 9 additional comments? Committee members or org
- 10 reps --
- (No audible response)
- DR. JOSEPH BOCCHINI: Okay. Well, Marci,
- 13 again, thank you for --
- DR. BETH TARINI: I'm sorry.
- DR. JOSEPH BOCCHINI: Oh, wait --
- DR. BETH TARINI: Beth --
- DR. JOSEPH BOCCHINI: -- we've got --
- DR. BETH TARINI: Beth Tarini.
- DR. JOSEPH BOCCHINI: Dr. Tarini,
- 20 remember to announce yourself. Beth?
- DR. BETH TARINI: Sorry, I don't want to
- 22 stand between -- oh, hold on -- between us and

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- 1 lunch. I just had a quick question for Marci.
- 2 Marci, is -- is one of your goals that this video
- 3 could then be disseminated through the programs
- 4 to, like, hospitals, couriers, things like that,
- 5 and is that goal -- or -- and if that is so, it
- 6 could be measured? Because we often get asked,
- 7 in the E&T group, about measuring education, and,
- 8 in fact, I was wondering if you might have any
- 9 tips on that.
- DR. MARCI SONTAG: So, we are -- our goal
- itself was not to do that, but the impact of this
- video was, really, for the purposes of the
- meeting and to demonstrate how to develop it, to
- 14 -- to develop a video using, you know, equipment
- 15 you have on hand. However, we are now measuring
- 16 that impact of -- well, we're measuring the
- 17 number of hits, at least, that we're seeing of
- 18 this video. It's -- the link that you have is a
- 19 YouTube link, so we can see how many hits the
- video has had, but we are not specifically
- 21 measuring it right now as its impact in hospitals
- 22 and birthing facilities, but I think that's a

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- 1 good idea of something that's a way we could be
- 2 using this at the local level.
- DR. BETH TARINI: Sorry, I forgot to
- 4 introduce myself: Beth Tarini. But a follow-up
- 5 question, then, Marci, is, so is the video
- 6 process what you're helping -- is the video, I
- guess, a consequence of trying to help the
- 8 programs develop their own videos, and this is
- 9 just -- and this is the product, and that process
- is what was discussed at the in-person meeting?
- 11 And that's one of the main goals?
- DR. MARCI SONTAG: So, it was -- it was
- actually a two-fold process or a two-fold goal,
- 14 here. So, the first was how to develop a video,
- 15 both through the technological means and also how
- 16 to interview people to get those stories out.
- 17 But we also had a couple of questions on
- 18 storytelling itself and how important it is to
- 19 get that message out. And once we can get that
- 20 message out to the appropriate stakeholders, it
- 21 helps them with buy-in.
- So, the consequence of the video itself -

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- 1 We hadn't actually anticipated this video
- 2 being used as widely as it, perhaps, is being
- 3 used, which, I think, is fantastic. So, we know
- 4 how powerful those family stories are, and if
- 5 you're the person who's delivering the sample on
- 6 the UPS truck from one place to another, and you
- 7 know that that sample is related to a baby, and
- 8 we can share these stories with the -- that UPS
- 9 courier driver, that can make a difference. And
- we've heard stories from states where, when they
- 11 can engage with those -- those people who have
- 12 the boots on the ground, it can make a
- 13 difference.
- So, I think, what I'm hearing from you,
- 15 Beth --
- DR. BETH TARINI: Yeah, so that means --
- 17 I think that, then, your point is made that --
- 18 that -- that -- that they are, then, sharing it
- 19 with these -- that some of the states are sharing
- 20 it widely.
- DR. MARCI SONTAG: They absolutely are.
- DR. BETH TARINI: It seems.

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- DR. MARCI SONTAG: It -- it seems, and
- 2 now the question is, is there a way that we could
- 3 be measuring that, and I thank you for playing
- 4 that out -- because that wasn't one of our
- 5 initial goals, and yet, maybe there are ways that
- 6 we could be capturing that beyond just the number
- of YouTube hits but to be testing what's
- 8 happening at the state level with this video.
- DR. JOSEPH BOCCHINI: All right, thank
- 10 you. I see no other questions or comments, so
- once again, Marci, thank you very much for
- 12 bringing us up to date on the accomplishments of
- 13 your group, and I think that'll conclude the
- 14 morning session. We're going to reconvene at
- exactly the top of the hour, so that's 1:00 my
- 16 time, so that gives us approximately 45 minutes
- 17 for lunch. So, enjoy your lunch, and we'll see
- 18 you back at the top of the hour. Thank you very
- 19 much.
- 20 (Whereupon, the above-entitled matter
- 21 went off the record and then came back on.)
- DR. CATHARINE RILEY: Operator, are we

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- 1 all set?
- OPERATOR: You are, yes. Please, go
- 3 ahead.
- DR. CATHARINE RILEY: Okay, great, thank
- 5 you. All right, then, I'm going to turn it over
- 6 to Dr. Bocchini.
- DR. JOSEPH BOCCHINI: All right, good
- 8 afternoon, everyone. Welcome back for the second
- 9 session of today's meeting. We're going to start
- 10 with a -- a roll call.
- So, Kamila Mistry?
- (No audible response)
- DR. JOSEPH BOCCHINI: Mei Baker?
- DR. MEI BAKER: Here.
- DR. JOSEPH BOCCHINI: Susan Berry?
- DR. SUSAN A. BERRY: Here.
- DR. JOSEPH BOCCHINI: So present.
- Jeff Brosco?
- DR. JEFFREY P. BROSCO: I'm here.
- DR. JOSEPH BOCCHINI: And I think we have
- 21 Carla Cuthbert this afternoon.
- DR. CARLA CUTHBERT: I'm here.

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- DR. JOSEPH BOCCHINI: Kellie Kelm?
- DR. KELLIE B. KELM: Here.
- 3 DR. JOSEPH BOCCHINI: Joan Scott?
- 4 MS. JOAN SCOTT: Here.
- DR. JOSEPH BOCCHINI: Cindy Powell?
- DR. CYNTHIA M. POWELL: Here.
- 7 DR. JOSEPH BOCCHINI: Melissa Parisi?
- DR. MELISSA PARISI: Here.
- 9 DR. JOSEPH BOCCHINI: Annamarie Saarinen?
- MS. ANNAMARIE SAARINEN: Here.
- DR. JOSEPH BOCCHINI: Scott Shone?
- DR. SCOTT M. SHONE: Here.
- DR. JOSEPH BOCCHINI: Beth Tarini?
- DR. BETH TARINI: Here.
- DR. JOSEPH BOCCHINI: And Catharine
- 16 Riley?
- DR. CATHARINE RILEY: Here.
- DR. JOSEPH BOCCHINI: For the org reps,
- 19 Bob Ostrander?
- DR. ROBERT OSTRANDER: Here.
- DR. JOSEPH BOCCHINI: Debbie Freedenberg?
- DR. DEBRA FREEDENBERG: Here.

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- DR. JOSEPH BOCCHINI: Michael Watson?
- DR. MICHAEL S. WATSON: I'm here.
- 3 DR. JOSEPH BOCCHINI: Britton Rink?
- 4 (No audible response)
- DR. JOSEPH BOCCHINI: Jed Miller?
- DR. JED MILLER: Here.
- DR. JOSEPH BOCCHINI: Susan Tanksley?
- DR. SUSAN M. TANKSLEY: I'm here.
- DR. JOSEPH BOCCHINI: Chris Kus?
- DR. CHRIS KUS: Here.
- DR. JOSEPH BOCCHINI: Natasha Bonhomme?
- (No audible response)
- DR. JOSEPH BOCCHINI: Siobhan Dolan?
- DR. SIOBHAN DOLAN: Here.
- DR. JOSEPH BOCCHINI: Cate Walsh Vockley?
- MS. CATE WALSH VOCKLEY: Here.
- 17 DR. JOSEPH BOCCHINI: Shawn McCandless?
- DR. SHAWN MCCANDLESS: Here.
- DR. JOSEPH BOCCHINI: Great, thank you,
- 20 all, very much.
- So, for this afternoon session, first,
- 22 public comments. As you heard earlier, we have

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- 1 not received any requests for public comments for
- this meeting. However, I just wanted to
- 3 acknowledge, at this time, that the Committee did
- 4 receive a petition on June 24th, signed by over
- 5 2,000 individuals, supporting the addition of SMA
- 6 to the RUSP.
- So, now we'll turn to our workgroup
- 8 updates. And so, we will begin with the
- 9 Education and Training Workgroup, and we have
- 10 Beth Tarini, Chair of this Education & Training
- 11 Workgroup, who will present this, and for those
- of you who are not aware, Cindy Powell has agreed
- 13 to serve as Co-Chair of this committee, as well.
- So, Beth?
- DR. BETH TARINI: Thank you, Dr.
- 16 Bocchini. So, my name is Beth Tarini for the --
- 17 the notetaker, and can you check the next slide?
- I want to acknowledge all of our members,
- and you see them listed here. Thank you to all
- 20 of them for their contributions and
- 21 participation.
- Next slide. And to echo Dr. Bocchini, I

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- 1 want to welcome Dr. Powell, who is our new Co-
- 2 Chair, and thank -- and give a thank you to Cathy
- 3 Wicklund, our former Co-Chair, for the work she
- 4 has done for us.
- Next slide. So, I'm going to go over the
- 6 two current projects and then the brainstorming
- 7 we did in our meeting, which was last week. So,
- 8 the communication guide -- this is the guide that
- 9 was mentioned earlier. We're in the final
- 10 stages. We discussed getting feedback from
- 11 pediatric residents and genetic residents --
- 12 genetics residents on the guide. We are working
- to link it to the ACT sheet, and we discussed
- identifying the most effective ways to get it to
- the states, especially the end user. And so, we
- talked about listservs utilized by members of
- 17 state programs, APHL, options through the media,
- and tried to decide and identify other ways.
- Next slide. The education guide -- this
- is the guide that, to briefly review, points out
- 21 elements of education for newborn screening, or
- 22 content domains, if you will, and how they might

- 1 map to areas of interest for various
- 2 stakeholders. So, it is also in its final stages
- and will be posted on the Committee's website.
- 4 We are trying to identify a way to validate and
- 5 evaluate the guide, as well as have a way to
- 6 track or monitor usability, talking about, do we
- 7 talk about the number of visits to the page,
- 8 downloads, and also find a way to collect the
- 9 feedback, either via SurveyMonkey or at the time
- of the use or, perhaps, asking them to download
- and then following up a week later. So, we will
- 12 -- we are working to identify which is the most
- 13 effective way to solicit the feedback from users.
- We also talked about --a -- a good point
- was made about finetuning the introduction to
- 16 target the end user, which would include -- which
- 17 would involve including more background and
- 18 direction about the -- the utility of the guide.
- 19 And so, we're in the -- in the process of
- 20 drafting that revised introduction.
- Next slide. And so, we talked about two
- issues that came up in the Co-Chair's meeting

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- 1 that we touched on earlier, and those are the
- 2 issues of -- well, this is -- the project label
- 3 is -- is nebulous. Provider education was under
- 4 the rubric of provider education and talked about
- issues with communicating the limitations of
- 6 newborn screening was the problem we were seeking
- 7 to address, and the "who" we talked about were
- 8 the providers, generalists and specialists,
- 9 particularly educating them so that they could
- 10 better inform the families. And we talked about
- one target, how it would be, perhaps, the North
- 12 American Metabolic Academy for the specialists.
- Now, let me just pause to say, this is
- 14 not a proposal of a project. The goal -- and I
- 15 should have started with this in discussing this
- 16 with you -- is to come to the Committee to
- 17 solicit thoughts and feedback on what might be,
- 18 from the Committee's perspective, most useful.
- 19 We did some bit of brainstorming and then are
- 20 bringing that small bit to the Committee. And we
- realize that we have only a small window of time
- 22 to discuss it today.

Next slide. And public education -- this

- was also touched on earlier -- explaining that a
- 3 negative screening does not mean you do not have
- 4 the disease and that that problem targeting "who"
- 5 -- public, prenatal, postnatal, child, adult,
- 6 depending on what is our actual intended behavior
- 7 change or outcome -- and the challenges we
- 8 discussed were that newborn screening is complex
- 9 and nuanced. For instance, we don't want, in
- 10 citing limitations, to detract from the value of
- 11 newborn screening. However, we also discussed
- 12 how this wheel has already been invented. This
- is done routinely with mammograms. And, of
- 14 course, there are some hazards, but we could
- 15 learn from other communities on this. And the
- 16 target, "how," was, could we get focus groups of
- 17 parents involved in this issue is one potential
- 18 idea.
- But I will say that after -- of course,
- 20 these slides were made before today -- after
- 21 discussion today, I will put in my plug, which
- does not represent, necessarily, that of the

- 1 Committee, which is, I think the first step is --
- 2 in any of this is to, perhaps, identify what we
- are currently doing and what is currently out
- 4 there and start with a landscape assessment and
- 5 then -- and then, potentially, move forward with
- 6 ideas. Because, for instance, Dr. Berry's MOC
- 7 is, I think, an incredibly valuable addition to
- 8 the educational landscape.
- And with that, next question -- next
- 10 slide, I mean. I will open it up for questions
- 11 and/or comments.
- DR. JOSEPH BOCCHINI: Thank you, Beth.
- 13 It's a good summary of -- of activities going on
- 14 within the -- in the Education and Training
- 15 Workgroup and, certainly, shows the beginning of
- 16 the discussion of -- towards the education,
- 17 perhaps, of providers, as well as the public,
- 18 related to the issues in -- in lab testing
- 19 results and screening.
- So, let's go ahead, then. We'll start
- 21 with Committee members who have questions or
- 22 comments. It's Sue Berry and Cindy Powell.

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- So, Sue first.
- DR. SUSAN A. BERRY: This is Sue Berry.
- 3 I just want to clarify: It's not my -- my
- 4 personal MOC4; it's part of the Midwest Genetics
- 5 Network's, but I appreciate the -- the
- 6 endorsement, and we will certainly keep the
- 7 Committee apprised of that.
- I really wanted to mention one potential
- forum for sharing a document like the one you've
- 10 described, and that's to reach out to the AAP
- 11 News, which is -- it bills itself as the official
- news magazine of the American Academy of
- 13 Pediatrics, and it produces short articles of
- 14 general interest to pediatricians. While I know
- 15 that -- that -- that the target's pediatricians,
- it still could be a -- a resource. And so, it's,
- 17 perhaps, worth considering reaching out to them
- 18 for a document as valuable as -- as the
- 19 communication quide.
- DR. JOSEPH BOCCHINI: That's a great
- 21 suggestion, and I think it is one way to get to a
- 22 large number of -- of primary care pediatricians

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- 1 and subspecialists.
- 2 Cindy Powell next.
- DR. CYNTHIA M. POWELL: This is Cindy
- 4 Powell. Thank you. And I certainly appreciated
- 5 the discussion this morning about the -- you
- 6 know, educating providers, as well as the public,
- 7 and echo the summary from Beth that, you know, we
- 8 -- we really need to look at what's already out
- 9 there before we can really, you know, think about
- 10 moving forward with any of this.
- I think one thing to keep in mind, too,
- in the -- the groups that were discussed this
- morning is also that, you know, the -- those, in
- addition to family practitioners, who care for
- 15 adult patients -- It's also going to be
- 16 important to educate the internal medicine folks,
- 17 because, you know, with some of these new
- 18 conditions, most cases that are being identified
- in children, you know, will not have onset until
- 20 adulthood, if, even, then, but, you know. So, I
- 21 think that's an important group that we need --
- 22 that we should not forget about.

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- And then, also, for -- I think it's
- great, you know, what Sue Berry brought up about
- 3 the MOC and also thinking about, you know, the --
- 4 the questions that are on the medical student
- s national board exams and whether, you know, that
- 6 they cover or include things about newborn
- 7 screening could be one way to make some inroads.
- 8 They often reflect some of the goals and
- 9 objectives for various residency programs. And
- 10 so, you know, you could work with the -- the
- 11 boards, as well as representatives from the
- 12 residency training programs, about how to make
- 13 sure this, you know, gets into the curriculum,
- which is already so crowded with other things
- that students and residents need to know about.
- 16 Thanks.
- DR. JOSEPH BOCCHINI: Thank you. Next,
- 18 Mei Baker.
- DR. MEI BAKER: Okay, yeah. This is Mei
- 20 Baker, and a couple comments. I just want to,
- 21 kind of, more emphasize what I feel important is
- the education. Beside education, also with a

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- 1 mind to provide tools to primary care physician.
- 2 Also, I do believe all the education material
- 3 have some kind of connection link to continued
- 4 education credit will be -- will be part of a
- s motivation get primary care physician willing to
- 6 do that.
- 7 Another thing that we talk about, ACT
- 8 sheet and this in-time information -- some point,
- 9 I think we may think about the combination and so
- 10 you don't give so many different set material to
- 11 primary care physician at the time but somehow
- can do some combination material. So, maybe is
- 13 another avenue to do so.
- DR. JOSEPH BOCCHINI: Thank you.
- Next, Shawn McCandless.
- DR. SHAWN MCCANDLESS: Hi, this is Shawn
- 17 McCandless representing the Society for Inherited
- 18 Metabolic Disorders. Beth, I appreciate the --
- 19 the mention of the North American Metabolic
- 20 Academy, which is a -- a function of the SIMD.
- 21 That -- the -- the limitations there are that it
- 22 reaches a very small number of -- they are key

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- 1 people, because they're trainees in the field of
- 2 medical genetics, but it reaches a very small
- 3 number of people once a year.
- Also, the curriculum is highly structured
- and professionally developed and not so easy to
- 6 change and add to. So, I -- I'm trying to pull
- 7 up the newborn screening curriculum now and
- 8 having some problems with the website, but I -- I
- 9 -- I -- I feel like that's maybe not going to be
- 10 a very effective mechanism for getting the
- message out about the -- particularly about the
- importance of -- of screening as a screening test
- and not a diagnostic test.
- The -- the -- I do think, also, that that
- 15 population, the -- particularly the people with
- metabolic training in particular but also
- 17 geneticists in general, are probably fairly savvy
- 18 to the idea already that screening tests are not
- definitive and that they -- when they're asked to
- 20 see a patient, a normal newborn screening test
- 21 doesn't rule out the possibility of one of these
- 22 inborn errors of metabolism. That's all I have

- 1 to say.
- DR. JOSEPH BOCCHINI: Next, I have Sue
- 3 Berry.
- DR. SUSAN A. BERRY: Yeah, so just wanted
- 5 to make sure that everyone knows this is not --
- 6 we'll be happy to provide information about the -
- 7 the details in the MOC4 so that we can make
- 8 sure that all of the efforts that we do on a
- 9 regional basis through our HRSA group are also
- 10 coordinated carefully.
- We had planned to incorporate discussion
- of the communication guide in the MOC4 about --
- 13 the -- the module about giving back positive
- 14 results, because that's one of the intents for
- that, but we're hoping to be able to, kind of,
- 16 build on the work that the Committee's already
- 17 done on the document.
- And the other thing I'm just going to
- 19 throw out there to give a little bit of a shout
- 20 out to my own Department of Health, which is that
- 21 Amy Gaviglio and a medical student that I was
- 22 working with assisted in developing a -- a guide

- 1 for our local pediatric practices to give when
- 2 they are conveying negative newborn screening
- 3 results. It's -- you know, it's -- we did some
- 4 vetting with families, and we did our own
- 5 internal vetting, but it -- it could certainly
- 6 use some additional work. But it might be a
- 7 place to start from that I think people would --
- 8 our -- our goal was to have a simple sheet that
- 9 is equivalent to the one that's given out after
- 10 hearing screenings, when you -- when you don't
- 11 get referred or when you have a heart screening
- and your heart test is normal. It's the same
- thing. And so, it's kind of a nice little one-
- 14 page document, and if people are interested in
- that, we can certainly make that available.
- DR. JOSEPH BOCCHINI: Thank you. I -- I
- 17 think that we've had some discussion and
- 18 presentation of that in the Education and
- 19 Training Workgroup. So, I think that would be
- 20 good to continue to share about.
- DR. SUSAN A. BERRY: Great, thank you.
- 22 FEMALE SPEAKER: Debbie Freedenberg.

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DR. JOSEPH BOCCHINI: Oh, next, we have

- 2 Debbie Freedenberg.
- DR. DEBRA FREEDENBERG: So, I really --
- 4 This is Debbie Freedenberg. So, I really
- 5 appreciate the discussion this morning related to
- 6 education, as well as Beth's comments from the
- 7 Committee -- the Workgroup, excuse me.
- So, I think one of the things that we
- 9 need to consider as a group is that the way -- if
- we're aiming for professionals and for
- 11 pediatricians and family practice, the
- methodology of how they're learning in education
- is changing, and like a vast majority of folks
- will go to an instantaneous, just-in-time pop-up
- 15 app, or the EMRs automatically link them to a
- 16 pop-up with information about whatever it is.
- 17 And so, I think we need to start thinking, also,
- into the future because we -- you know, as a
- 19 state, we do the brochures, we do the webinars,
- 20 we do the talks, we do all of that -- you know,
- 21 active, facted information, and we pair with our
- 22 pediatric society and try and pair with our

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- 1 OB/GYN, which we're not so successful with --
- 2 society, which we're not so successful with, but
- 3 I think we need to start thinking about the way
- 4 information is now being processed and learned.
- And the families, most of them, are
- 6 younger families, so we're having kids who are
- 7 also in that same learning paradigm, where, you
- 8 know, they're much less likely to pick up some
- 9 printed material than being able to click a
- 10 button on their iPhone or their Samsung whatever,
- on their cellular phone or their iPad or wherever
- 12 they are, you know, their laptops.
- So, I think we need to recognize that the
- 14 educational paradigm has been shifting a bit more
- 15 towards electronic. And, you know, we've often
- spoken about, could we just develop an app and
- 17 put it on there and have everybody pull up what
- 18 they need. But there are significant barriers to
- 19 that for us, as well, but I kind of would like --
- 20 just wanted to point out that there are newer
- 21 methodologies that people are using to get
- 22 information.

DR. JOSEPH BOCCHINI: Thank you. Any

- 2 additional questions, comments?
- 3 (No audible response)
- DR. JOSEPH BOCCHINI: If not, I think
- 5 it's clear that the Education and Training
- 6 Workgroup's going in the right direction and that
- 7 we look forward to additional discussions. And
- 8 did we give you enough to have additional
- 9 discussions, Beth?
- DR. BETH TARINI: Yes, I think that the
- one piece to tie up is -- is, if this is going to
- 12 be an interdisciplinary work project, whether or
- 13 not that is the intention, and then what would be
- 14 the infrastructure or formal, sort of, sub-
- workgroup collaboration for that or the idea or
- intent that we as the Education Workgroup take
- 17 this suggestion from labs and -- and run with it,
- 18 if you will.
- DR. JOSEPH BOCCHINI: I would -- I would
- 20 have you take the lead and run with it but then
- use the expertise of the laboratorians for
- 22 specific information related to test

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- interpretation, et cetera, and -- so that working
- together, we can come up with clear guidance and
- 3 definitions and -- and interpretation.
- DR. BETH TARINI: Okay. Yeah.
- DR. JOSEPH BOCCHINI: All right. Thank
- 6 you very much.
- Next on the agenda is the report from the
- 8 Laboratory Standards and Procedures Workgroup.
- 9 Kellie Kelm has already discussed, in detail, a
- 10 significant amount of the work that this
- 11 workgroup is doing. So, we'll see if Kellie
- and/or Susan have any additional information to
- 13 bring forward in their report.
- 14 Kellie?
- DR. KELLIE B. KELM: Yes. So, as we
- 16 said, most of what we discussed in our -- in our
- 17 workgroup meeting I captured in our earlier
- 18 presentation. And one thing that was touched on
- 19 briefly, also, in our discussion, that we were --
- 20 we -- we also discussed was the recent
- 21 publication, I believe in MMWR, on one screen
- versus two screens, looking at the effectiveness

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- of screening for congenital hypothyroidism, and
- that's something that we have discussed before
- 3 and I think might be a -- a future topic that may
- 4 come around again.
- I didn't have anything else. I don't
- 6 know if Susan's available, if there's anything
- 7 else that she wanted to add that -- that we
- 8 discussed.
- DR. SUSAN M. TANKSLEY: This is -- this
- is Susan Tanksley. I don't have anything to add.
- 11 Thanks, Kellie.
- DR. JOSEPH BOCCHINI: All right. I want
- 13 to thank --
- DR. KELLIE B. KELM: All right.
- DR. JOSEPH BOCCHINI: -- the -- I want
- 16 to thank this workgroup for the -- for the
- 17 efforts that they have made related to risk
- 18 assessment and -- and then the recommendations
- 19 that came forward for us to evaluate today.
- 20 Are -- does anyone have any additional
- 21 comments for the Education and -- I'm sorry, the
- 22 -- the Laboratory Standards and Procedures

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- 1 Workgroup before we move on?
- 2 Dr. Tarini?
- DR. BETH TARINI: Hi, Beth Tarini. I
- 4 have a -- a -- a question or issue to raise, and
- 5 that is an issue that's come up in some of the
- 6 newborn screening circles about congenital
- 7 hypothyroidism and the potentially increase in
- 8 the diagnosis of congenital hypothyroidism, as
- 9 well as --
- So, this is a little bit -- So there's
- 11 the screening issues, which are the age-
- 12 appropriate cut -- age-adjusted cut-offs issue,
- as well as the diagnostic line for -- for
- 14 congenital hypothyroidism in the short-term
- 15 follow-up, and -- and then the overall notice in
- some states of an increasing rate of congenital
- 17 hypothyroidism diagnoses. And I'm wondering if
- 18 this might be an opportunity for cross-
- 19 collaboration of all three workgroups on this
- 20 issue and wondering if anyone else has -- has
- 21 thoughts about that, particularly the lab group.
- DR. JOSEPH BOCCHINI: We certainly can

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- open that up for discussion.
- FEMALE SPEAKER: Mei Baker.
- DR. JOSEPH BOCCHINI: All right, Mei
- 4 Baker first.
- DR. MEI BAKER: Yes, hi. I just want to
- 6 -- Oh, this is Mei Baker, and to follow Beth's
- 7 comments, I feel that maybe need a
- 8 multidisciplinary, because that -- at newborn
- 9 screening timepoint, the elevation, and I think,
- 10 beside of what you said, also the transient, and
- 11 that's what we need to assess, right? I feel
- 12 like maybe -- I don't know if we can call this
- 13 long-term follow-up or not, because I feel this
- 14 cohort need to be assessed at least for three
- 15 years, and so we kind of have a sense in terms
- they're transient or, you know, true cases. So,
- then, we can better assess the incident rate.
- So, almost I -- what I'm suggest that is
- maybe Laboratory Workgroup and short-term follow-
- 20 up or even long-term follow-up kind of come to
- 21 some kind of procedure and recommendations and
- 22 see each state interesting follow this. Then, we

- 1 can collect data at certain time points.
- DR. JOSEPH BOCCHINI: So, Beth Tarini?
- DR. BETH TARINI: Hi, this is Beth
- 4 Tarini. Mei, you bring up an excellent point.
- 5 And, in fact, I think that the point -- the issue
- of the three-year follow-up to see, does the
- 7 child actually have the diagnosis we thought they
- 8 had, or was it transient or was it -- is it --
- 9 was it transient or was it permanent, actually, I
- 10 think, is an example of where Long-Term Follow-Up
- 11 has -- and I don't want to speak for that group,
- 12 but Long-Term Follow-Up has a real impact on
- 13 screening. We often talk about, what's the role
- of Long-Term Follow-Up. Here's an example where
- 15 Long-Term Follow-Up actually is -- has a critical
- 16 role in determining how we diagnose -- how we
- 17 create and diagnose off of these tests in -- for
- 18 congenital hypothyroidism.
- DR. JOSEPH BOCCHINI: Other comments or
- 20 questions?
- 21 (No audible response)
- DR. JOSEPH BOCCHINI: So, I think there's

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- 1 enough new information that this should be a
- topic for us to pursue, and perhaps we could put
- 3 together some presentations for the next meeting
- 4 to, kind of, charge the -- the three different
- 5 workgroups, following that -- those
- 6 presentations, to consider aspects of this that
- 7 might be things to evaluate or consider to bring
- 8 back to the full Committee. So, we'll see how
- 9 quickly we can organize having some presentation
- 10 and discussion on this topic, so. Thanks.
- Okay, are there are any other issues
- related to Lab Standards and Procedures?
- (No audible response)
- DR. JOSEPH BOCCHINI: No. Thank you.
- Okay, the next is the Follow-up and Treatment
- 16 update -- Workgroup update, and Chris Kus is
- 17 going to lead this presentation.
- so, Chris?
- DR. CHRIS KUS: Thanks, yeah. It's Chris
- 20 Kus from the New York State Department of Health.
- 21 I'm actually in the Division of Family Health --
- 22 it's missed on that slide -- and I'm pinch

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- 1 hitting for Jeff.
- Next slide. Just shows the Workgroup --
- 3 current Workgroup members
- Next slide. So, this has been a busy
- s workgroup and report on some of our activities.
- 6 The first one, the medical foods, which completed
- 7 the report, which was sent to the HHS Secretary
- 8 as informational, it's going to be posted on the
- 9 Committee's website and submitted for publication
- in a peer-reviewed journal is planned.
- 11 Second thing, the work we've done in
- 12 terms of quality measures, the quality measure
- 13 report, which is completed, and it's, again,
- 14 going to be posted on the Committee's website.
- 15 It'll take a little time -- I think in about two
- weeks, it should be on the website. The plan is
- 17 to identify journals to publish the executive
- summary in, not peer-reviewed journals, to
- 19 consider topic-specific articles that build on
- 20 the report, consider what aspects of the report
- tie into the roadmap project, and we'll get into
- 22 more of that discussion.

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I think Bob Ostrander highlighted that

- there's -- we've had a -- a lot of discussion
- 3 about a roadmap for long-term follow-up, and
- 4 there are a variety of audiences that may be
- interested in the report. So, we're asking the
- 6 Committee, is there ways that we should do
- 7 outreach to make sure that it gets to the people
- 8 that need to see it.
- Number three is a long-term follow-up
- 10 roadmap. We're in the development phase, and
- we're going to consider next steps based on the
- 12 Kemper and Lam's Environmental Scan and think
- about what different components need to be.
- Having said that, next slide. A big part
- of our discussion at our last meeting was about a
- 16 long-term follow-up roadmap, ideas for moving to
- an informatics paradigm. At our meeting, Joe
- 18 Schneider and Bob Ostrander presented some ideas
- 19 for improving care by creating an integrated
- 20 system for quality measures, and Joe put out a
- 21 word that I had to look up, that -- calling it a
- 22 core desideratum, and -- which essentially means

- 1 something that is needed or wanted. And the
- thoughts we have are, thinking about single
- 3 registry and QI programs per disease or disease
- 4 group, considering data consistency as we look at
- s follow-up for different conditions, the idea of a
- 6 hub-and-spoke data collection system -- my phone
- 7 answered one of my questions, I guess -- a -- a
- 8 patient identification and continuity, and
- 9 coordinated research/QI funding.
- Next slide. So, I'm going to throw out
- 11 some questions for the group, and I'll just read
- 12 through the questions, and then we can have a
- 13 discussion. How can data registries inform
- 14 quality measures that can help us improve
- informed treatment and follow-up? Is there an
- interest in creating an integrated system for
- 17 quality measures? Do we need a core set of data
- 18 elements that are both disease specific and
- 19 applicable across diseases? And how can we
- 20 ensure newborn screening conditions have a
- 21 follow-up plan?
- We had some discussion about the idea, as

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- 1 people submit new conditions to be on the RUSP,
- should they have to submit some type of follow-up
- 3 plan relative to the condition. And the other
- 4 thing I'll add is, I started to think about this,
- 5 because we are talking about developing some type
- 6 of system that reports on newborn screening
- 7 nationally, and the question is, who's the
- 8 responsible party for doing that kind of report,
- 9 and what kind of report might that look like.
- So, I'll stop here and say, Bob and Joe,
- answer some of the questions as they come up, and
- 12 I'll try to, too. Thanks.
- DR. JOSEPH BOCCHINI: Thank you, Chris.
- 14 Bob Ostrander already indicated he would like to
- 15 make some comments.
- 16 Bob?
- DR. ROBERT OSTRANDER: Hi, thanks. I
- don't know if Joe is here, because Joe really is
- 19 the lead on this. I just threw some ideas in.
- 20 But I want to flesh out some of our thoughts
- 21 about the roadmap, because I think we need to get
- 22 the Committee quiding us in -- in thinking about

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- 1 some of the concepts.
- I'm going to start with the most virtual
- 3 one rather than the most important one, and that
- 4 is our notion that a follow-up and treatment plan
- is an integral part of a condition be on the
- 6 Recommended Screening Panel, because if we put
- 7 conditions on the RUSP, without a system either
- 8 in place or the architecture for -- the
- 9 architectural drawing for it laid out, we are
- 10 really not meeting all of our obligations as a
- committee, 1), and 2) it puts us behind the 8
- 12 ball for reporting back to the Secretary when an
- 13 approval letter comes back, as it did this time,
- 14 and I think quite appropriately, wanting follow-
- up information in 2 years.
- And if we don't have a blueprint on paper
- when we approve it, we're -- we're not very
- 18 likely to even be able to build a follow-up --
- 19 assessment plan in the two years, much less
- 20 gather any data. So, I think -- we think that
- it's important, some of us, but we also worry
- that it's going to be perceived as a barrier to

- 1 conditions being placed on the RUSP.
- 2 And the other thing that we talked about,
- 3 and this comes up over and over and more and more
- 4 at our committee meetings, is that we need to
- 5 think about what to do about conditions that are
- 6 already on the RUSP. And we've talked about
- 7 looking at ones that might need to come off the
- 8 RUSP, but I think another part of what we're
- 9 (audio cuts out) is, you know, assigning -- you
- 10 know, setting a time target to have one of the
- 11 standardized approaches to follow-up data
- 12 collection in place for conditions that are
- 13 already -- already on the RUSP within a matter
- of, you know, two, three, five years. We can
- 15 kick some numbers around. So, that's one piece.
- And then, the other piece I just want to
- 17 flesh out the vision a little more for folks to
- 18 comment on, and we talked about this a little at
- 19 the last meeting when I brought it up, and that
- 20 is, you know, working toward a notion where the
- centers have a responsibility, as owners of
- 22 registries, for their various diseases.

And then the third component is the

- 2 notion that we have some standardized measures
- 3 that will cut across all heritable diseases or
- 4 even (audio cuts out) things sort of like the
- 5 medical home issues, and then, you know, an up-
- 6 front notion about information for each disease
- 7 or group of diseases that would be standardized
- 8 across centers. And if we could do this and make
- 9 this our system, we wouldn't have the polyglot we
- 10 have now of some of the registries being kept by
- 11 disease groups, some of them just individual
- 12 states, and so on.
- So, that -- those were our initial vision
- 14 things. As I said, the -- the Subcommittee's
- 15 going to flesh some of this out, but I think it
- would be helpful up front to hear from the
- 17 Committee if they think some of these ideas are
- okay and, specifically, the notion of asking
- 19 candidate conditions to have some kind of
- 20 architectural drawing in place for how they
- 21 envision long-term follow-up over the next two to
- 22 five years.

DR. JOSEPH BOCCHINI: Joe, I think this

- 2 is a timely question in the sense that our plan
- is to, kind of, not only review the entire
- 4 evidence review but also to consider what needs
- to be in it for us to then make a decision about
- 6 a condition going onto the RUSP. So, I think
- 7 it's timely to include this consideration.
- 8 So, I have two Committee members: Sue
- 9 Berry, Jeff Brosco.
- 10 Sue first.
- DR. SUSAN A. BERRY: Thank you. This is
- 12 Sue Berry. I love the attention to having us
- 13 consider the whole system, not just the test,
- which includes the -- the long-term follow-up.
- I will point out work that's been done by
- the Newborn Screening Transitional Research
- 17 Network to create the Longitudinal Pediatric Data
- 18 Resource, which, as a element in its development,
- 19 created a set of common data elements that were,
- 20 hopefully, to be used across diseases. While
- that was developed in a research setting, they
- 22 were developed by clinicians for assessment of

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- 1 patients with these conditions because the only
- way to get some of this information has been in a
- 3 research environment. And so, a lot of work was
- 4 also done in working with public health to take
- 5 some of those common data elements and select
- 6 appropriate ones that might be suitable for use
- 7 in public health. And I'm -- I'm hoping some of
- 8 what Alex will end up talking about will reflect
- 9 some of -- some of that work.
- The one thing I would point out, after
- running our project to try and do some of this
- 12 long-term follow-up data collection, is that this
- 13 requires time, which I would say equals money.
- 14 Centers will not be able to do the -- even the
- most cursory sustained follow-up without some
- 16 kind of support. So, that'll have to be an
- 17 element that's considered in anticipating a truly
- 18 comprehensive follow-up system. But I think you
- 19 all know of my incredible enthusiasm for any plan
- 20 that includes improvements in our long-term
- 21 follow-up so that we can realize the promise of
- newborn screening. So, I'm really excited that

- this is a direction we're taking.
- DR. JOSEPH BOCCHINI: Thank you.
- Now, Jeff?
- DR. JEFFREY P. BROSCO: Thanks, this is
- 5 Jeff Brosco. First, I want to thank Chris for --
- 6 for pinch-hitting for me today. I had a -- a
- 7 conflicting meeting, which, of course, was
- 8 canceled just in the last two days. So, I'm
- 9 actually able to be here.
- 10 And then, it was great to hear Bob sort
- of lay out some of the really interesting ideas
- 12 that he and Joe have -- have proposed, and just
- want to -- it would be great to hear some
- 14 feedback now, but I just want everyone to
- 15 recognize that these are, sort of, the first time
- our -- our workgroup is speaking about them, and
- a lot of what we're going to do is -- is actually
- 18 based on what we're going to hear in a few
- minutes from Alex and K.K., about, sort of, where
- 20 long-term follow-up is right now. Their
- 21 environmental scan's going to be very helpful as
- 22 we put together the so-called federated system.

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- 1 We expect, over the next two months at our
- workgroup meetings, to take what Alex and K.K.
- 3 have put together, imagine and start drawing out
- 4 what this federated system would truly look like,
- 5 and may or may not include some of the elements
- 6 that -- that Bob just mentioned.
- 7 And, just, quickly, Sue, you weren't --
- 8 weren't on the last call, but -- but Amy Brower
- 9 was there, and I asked Amy to talk a little bit
- 10 about the Longitudinal Pediatric dataset elements
- and so on. We're -- so, we're well aware of
- 12 that. The Workgroup is including that, and the
- 13 question is, how well do those translate into
- 14 clinical situations, and how flexible are they,
- and all that sort of stuff, which will be one of
- 16 the key topics in our upcoming workgroup calls.
- 17 I think I'll stop there.
- DR. JOSEPH BOCCHINI: Thank you. Next, I
- 19 have Shawn McCandless.
- DR. SHAWN MCCANDLESS: Hi, Shawn
- 21 McCandless representing the SIMD. I -- I just --
- 22 I -- I want to reemphasize what Sue said about

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- 1 the -- the burden and cost to providers,
- 2 particularly the members of the SIMD, who are --
- often, are the ones that are required to enter
- 4 data into databases. We're -- I -- I am sure our
- 5 membership will be enthusiastic about a process
- 6 to standardize and collect meaningful data in a -
- 7 in a standardized way, especially if that
- 8 reduces the number of different places that we're
- 9 expected to enter data regarding newborn
- 10 screening follow-up.
- DR. JOSEPH BOCCHINI: Thank you. Next is
- 12 Chris Kus.
- DR. CHRIS KUS: Yes. I -- I quess, as I
- 14 thought more about this, is, if we move toward
- this federated system, one of the questions that
- 16 comes up, for me, is, who will provide the
- 17 leadership for that federated system, and then
- 18 comes up the -- the question is, where will the
- 19 resources come from, thinking -- You know, we
- 20 have state resources, federal resources, and if
- 21 you're moving in this added resource needed,
- 22 where -- where will that come from is a question.

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DR. JOSEPH BOCCHINI: I have Scott Shone

- and Jeff Brosco.
- 3 Scott?
- DR. SCOTT M. SHONE: Hi, this is Scott
- 5 Shone. So, I -- I -- I would like to suggest
- 6 that the -- the -- the -- the planning for long-
- term follow-up needs to come before a disorder is
- 8 proposed for the RUSP but be part of these pilot
- 9 studies that we should be doing and the data that
- should be gathering in support of the evidence
- 11 review for a RUSP nomination. I mean, the -- the
- 12 -- the current system provides no guidance or
- 13 funding during pilot studies to help collect this
- 14 data.
- And so, while the pilot studies that have
- been done have been incredibly successful at
- demonstrating that screening can be performed,
- 18 these children can be identified, and we can run
- 19 confirmatory analyses to show that they either
- 20 have mutations or other biochemical markers
- 21 indicative of a disease, what is been clinically
- 22 lacking is the -- the -- the conclusive

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- 1 demonstration that early identification and
- 2 treatment leads to long-term benefit. Now, the
- 3 definition of "long-term," I know, depends on the
- 4 eyes of the beholder, but I -- I think that we
- should be -- we should be shifting the inclusion
- 6 of this long-term follow-up plan and data
- 7 collection well before it even gets to the
- 8 Committee but as part of recommendations to
- 9 researchers that they be included as part of
- 10 their analyses for new newborn screening
- 11 disorders before they even make it to us.
- DR. JOSEPH BOCCHINI: Jeff Brosco?
- DR. JEFFREY P. BROSCO: Yes, Jeff Brosco.
- 14 Thank you, Scott, that's very helpful, and --
- and, really, it helps our workgroup continue to
- move in that direction, because I think you're
- 17 right. A lot of this needs to get done at the --
- 18 at the pilot stage.
- One guick comment, just to make sure
- 20 everyone -- I'm -- I'm, sort of, channeling
- 21 Nancy, who would typically be saying this at this
- 22 point, that a lot of what you've heard may have

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- 1 been about quality measures and data and quality
- improvement, and just to make sure everyone
- 3 understands: This is all in the interest of
- 4 treatment, because that's really what we -- we
- want to make sure happens in the long term, and
- 6 this is just ways of making sure it happens.
- 7 And just a last thing for folks who may
- 8 not have heard these terms before: When -- when
- 9 we've said "federated system," what we mean is,
- we don't think it's possible, at least in the
- 11 U.S., any time soon, to have a single dataset for
- 12 every single condition that all states and all
- 13 groups participate in. We just don't think
- 14 that's realistic. So, a federated system means
- 15 that, okay, in CF, it may be the CF Foundation
- 16 that funds and provides the structure for long-
- 17 term follow-up for cystic fibrosis, but for
- 18 sickle cell anemia, it might be something else,
- and for SMA, it might be a different group. And
- 20 it may be federal. It would be great if it were,
- you know, national, but we recognize that some
- 22 things will be patient-registry oriented or maybe

- 1 more localized.
- So, when we say a "federated system," we
- mean having as strong a system of long-term
- 4 follow-up and treatment as possible, probably
- 5 condition specific, and it's going to -- it's
- 6 going to be varied and together in a federated
- 7 way that makes up some kind of quilt that shows
- 8 long-term follow-up and treatment's being done.
- 9 So, just for folks who hadn't really thought
- 10 about that recently, that's the way we're
- 11 thinking about it now, and we hope to learn what
- 12 the -- the strand of that quilt will be from Alex
- 13 and K.K.
- DR. JOSEPH BOCCHINI: That sounds good.
- 15 Additional questions or comments?
- (No audible response)
- DR. JOSEPH BOCCHINI: All right. I want
- 18 to thank everybody for the feedback. I think
- 19 each of the workgroups has gotten feedback that's
- 20 necessary for them to continue moving forward
- 21 with their projects and tasks. So, thank you,
- 22 all.

- Next, we have two presentations by Alex
- 2 Kemper. The first is on -- is a report on long-
- 3 term follow-up in newborn screening -- so, this
- 4 is a landscape environmental scan that Jeff was
- 5 talking about -- and then we'll discuss that and
- 6 -- and then we'll -- we'll have a second report
- on the -- the technology -- the -- the evolution
- 8 of technology in -- in newborn screening.
- 9 So, Dr. Kemper is Division Chief of
- 10 Ambulatory Pediatrics at Nationwide Children's
- 11 Hospital, and he leads the External Evidence
- 12 Review Workgroup for the Committee. His group
- 13 has been working on two reports for us over the
- 14 past year.
- The first is this report on the status of
- 16 long-term follow-up in newborn screening. It's a
- 17 report designed to identify knowledge gaps and
- 18 potential needs. The Committee will hear from
- 19 Dr. Kemper for the first time today on this
- 20 topic, although he and his team have been
- 21 collaborating with the Follow-Up and Treatment
- 22 Workgroup, as you heard, as their missions

- 1 overlap.
- 2 And then, the second report is one that
- 3 he and his team have been working on that
- 4 outlines the various advances in technology that
- 5 have already had or will be expected to have an
- 6 impact on newborn screening. He presented the
- preliminary findings of this report last year,
- 8 and today we'll hear an update.
- So, let's hear the first report. Turn it
- 10 over to you, Alex, for the Long-Term Follow-Up --
- DR. ALEX KEMPER: Fantastic, and can you
- 12 hear me okay?
- DR. JOSEPH BOCCHINI: We can hear you
- 14 well.
- DR. ALEX KEMPER: Fantastic. So, this
- 16 has been a great day. I -- I really appreciate
- 17 the organization of today's webinar because it
- 18 really builds on all of the things that we've
- 19 been thinking of. So, I -- I've really enjoyed
- 20 all the previous presentations, and I -- I hope
- 21 that this adds nicely to it.
- So, I'm going to talk about the work that

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- we've done in terms of our horizon scan. I'm
- going to keep this at a relatively high level and
- 3 hope, to the best that we can, that we can
- 4 facilitate a conversation on this webinar. It's
- 5 not necessarily our purview to come up with
- 6 specific recommendations, but I think that as we
- 7 go through this, you'll see that there are some
- 8 suggestions that we have. Again, we -- we leave,
- 9 you know, those particular recommendations to the
- 10 relevant workgroups and the Advisory Committee as
- 11 a whole, but --
- Next slide, please. Fantastic, it's
- working. It's like a miracle. What I'd like to
- do is just tease apart long-term follow-up a
- 15 little bit, because long-term follow-up
- 16 encompasses so much. And, you know, Jeff was a
- 17 hundred percent right that at the end of the day,
- what we want to do is make sure that we're
- improving health outcomes. And a key part of
- 20 that is making sure that individuals get the care
- that they ought to get, but there are, really, a
- 22 bunch of different components that all contribute

- 1 to this notion of long-term follow-up.
- 2 And, you know, at the -- at the highest
- 3 level, the way that we think about it is breaking
- 4 it into -- to two different domains. So, one is
- s all the care and the related special services,
- 6 educational services and so forth, that
- 7 individuals receive after being diagnosed with a
- 8 condition through newborn screening.
- And then, there's another component -- I
- 10 -- I -- I don't want to call it "secondary,"
- necessarily, but -- but a -- a second component
- 12 to this, which is program evaluation, and that
- 13 gets to the issues of quality improvements that
- we've spoken about throughout the day, as well as
- research, because, certainly, as Scott brought
- up, there are always questions around these rare
- 17 conditions about the best ways to provide care
- and the comparative effectiveness of different
- approaches to management, and -- and the only way
- 20 to capture that is continuing research as
- 21 individuals are identified through newborn
- 22 screening. And I'm going to drill into that a

- 1 little bit more.
- We've spoken a lot about the -- the
- 3 Cystic Fibrosis Foundation as a model for doing
- 4 this, but I -- I think it's important, at the
- outset, to recognize how different they are, how
- 6 different that foundation is in terms of the
- 7 level of resources that it has and its ability to
- 8 certify clinics and collect data prospectively.
- 9 So, I think that, you know, that -- that's
- 10 certainly an aspirational model, but -- but,
- 11 again, they're -- they're so different that I --
- 12 I think that we need to think about things in a -
- 13 in a more wholistic way.
- So, next slide. So, this is where I
- invoke the four components of long-term follow-up
- that we've all discussed before, including care
- 17 coordination through a medical home as in-space
- 18 treatment continues, quality improvements, and
- new knowledge discovery. Again, I think that
- 20 that captures those points that I was trying to
- 21 make before.
- Next slide, please. And it's been ten

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- 1 years since that manuscript was -- was published
- 2 describing the four components of long-term
- 3 follow-up. Again, long-term follow-up is -- is -
- 4 you know, it's -- it's complex. It entails a
- 5 lot, and I don't think that we should go glum
- 6 that it's been 10 years since this was published,
- 7 and we're still debating a lot of the same
- 8 issues, because there has been a lot that --
- 9 that's been published and that's been done, and
- 10 that's what I'm going to be going through in the
- 11 next little bit.
- Next slide, please. So, there's certain
- 13 key aspects that I just want to plant a seed that
- 14 I want you to think about as we go through. So,
- 15 first of all, there's really a wide variety of
- 16 stakeholders when we talk about long-term follow-
- 17 up. You know, at -- at the core of things, of
- 18 course, are patients and their families. There's
- 19 the public health system, the newborn screening
- 20 programs for example. There's specialists.
- 21 There's primary care providers, and -- and I will
- 22 say, as a primary care provider, I was, like,

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- 1 thrilled to death that there's so much attention
- 2 being paid to the role of primary care today.
- 3 There's payers. There's drug and device
- 4 manufacturers. And then, there's all the other
- 5 services and individuals that patients and
- 6 families intersect with over the lifespan. So, I
- 7 spoke about education, but, you know, there --
- 8 there're a million different services that --
- 9 that families interact with, and, of course, it
- 10 depends a lot on the particular condition.
- And thinking about that, there's also
- 12 tremendous variation in the conditions. So,
- there's differences in epidemiology treatment and
- 14 timing. As Scott Grosse mentioned before,
- 15 congenital hypothyroidism is the most common
- 16 condition that's identified on newborn screening
- and really lives outside of the specialist world.
- 18 Oftentimes, the primary care providers often take
- 19 care of children with congenital hypothyroidism.
- 20 Then, you get to the metabolic conditions and the
- 21 hematologic conditions, so forth, and I won't --
- won't, obviously, name all of them, but they all

- 1 have unique aspects.
- 2 And one of the things that makes the
- 3 epidemiology challenging, of course, is,
- 4 conditions are -- are increasingly being
- 5 considered that have late-onset presentation.
- 6 And -- and so, again, it makes it hard to think
- 7 about long-term follow-up while, you know, we're
- 8 waiting -- you know, while it takes a long time
- 9 for the condition itself to manifest itself.
- There's variations in the accessibility
- of experts and -- and where they are. There's
- variations in cost, and there's variations in
- 13 fundamental knowledge about the condition, as
- 14 well as, just, knowledge more generally among the
- 15 care providers and so forth. I think it's
- important to consider issues related to funding
- 17 for long-term follow-up, and, again, we're going
- 18 to be digging into that.
- And then, there's also the issue of
- 20 authorization, which I hadn't really thought
- 21 about before digging into this, but this
- 22 especially ties back to public health. And for

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- 1 those of you who primarily operate within public
- 2 health, it'd be interesting to hear what you say
- 3 in a little bit regarding authorization and --
- 4 and, you know -- you know, where your boundaries
- s are or what it is that you're expected to do.
- Next slide. So, this is what I want you
- 7 to keep in mind, as well, as we go through. So,
- 8 we all know where we want to go, right, but it
- 9 can be complicated to figuring out how to get
- 10 there, and, often, the root is indirect and
- 11 requires multiple lines. So, based on what we've
- 12 found in terms of what's out there around long-
- 13 term follow-up, there's going to -- I -- I would
- 14 posit that there's going to be no -- no simple
- way to get there, and we need to think about how
- 16 to combine these things. I was very proud of
- 17 this analogy. I, like, came up with it in the
- 18 middle of the night. So, anyway, I -- I hope
- 19 it's helpful. If not, I -- I'm -- I still like
- 20 it.
- Next slide. So, the -- you know, I -- I
- will say, too, it's hard to do these long

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- 1 presentations on these webinars without seeing
- 2 anyone, so I hope that -- I hope that if -- if
- 3 I'm not making any sense, or people want me to
- 4 expand on things, somebody will jump in. The --
- oh, here comes a voice. No? Maybe not.
- So, the -- our objective was to conduct a
- 7 landscape review to inform the Advisory Committee
- 8 about opportunities for improving long-term
- 9 follow-up. Again, it's not our job to
- 10 necessarily come up with specific
- 11 recommendations, but I do think that some
- 12 recommendations will naturally come up through
- 13 this.
- Next slide, please. So, the Advisory
- 15 Committee has already done a lot of work around
- 16 long-term follow-up. There was a publication
- 17 from 2011 that reviewed, what questions should
- 18 long-term follow-up be able to answer and looked
- 19 at things at the patient-and-family level, the
- 20 medical-care and the medical-research level, and
- then at the state and national level, and I would
- 22 refer the -- refer you back to that particular

- 1 document to see all the questions that were
- 2 developed.
- And the -- there are examples of issues
- 4 that were raised from the Long-Term Follow-Up
- 5 Subcommittee, as well, that we see borne out in
- 6 the literature. So, the issue of standardized
- 7 terminology -- (coughing) excuse me. So, as
- 8 Scott Shone mentioned, it's incumbent upon us, in
- 9 the beginning, to be able to track individuals
- 10 going forward, and one of the barriers to that
- 11 has been having standardized terminology that can
- 12 be used in -- in datasets to understand what it
- is about the individual that -- that we're
- 14 tracking. Jeff Brosco and Chris Kus spoke about
- 15 quality metrics, and then another issue, which
- 16 hasn't come up beyond the -- the brief discussion
- of the federated model, was issues of information
- 18 exchange. But that has been something that the
- 19 Advisory Committee as a whole has been thinking
- 20 about.
- Next slide, please. So, for the purposes
- of this talk, again, we're focusing on activities

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- 1 related to newborn screening. So, we're not
- 2 talking, necessarily, about follow-up of
- 3 individuals with conditions that are on the RUSP
- 4 but who are detected other ways. Again, we're
- 5 very interested in issues specifically related to
- 6 newborn screening. And as best I can, I'm going
- 7 to try not to be condition specific because,
- 8 again, I want to try to draw out the
- 9 generalizable lessons.
- Next slide, please. So, I would be
- 11 remiss without thanking our technical expert
- 12 panel and -- and -- and our -- who provided all
- 13 this stakeholder input. I won't read down the
- 14 names; I'll just leave this slide here for a few
- more seconds. But what I do want to point out is
- that we were very fortunate, also, to have a wide
- 17 array of experts and -- and people who think
- 18 deeply about long-term follow-up. Separately,
- we've spoken to a number of individuals, as well,
- 20 but these were people who served on the initial
- 21 technical expert panel.
- Okay, next slide, please. So, again, I'm

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- 1 not going to go directly through the report that
- 2 -- that you all have in -- in the briefing book,
- 3 but I'm going to highlight things. So, the --
- 4 the first thing is, I would point that most
- s newborn screening programs are involved with
- 6 long-term follow-up, but the extent and nature of
- 7 it is variable. There are some components of
- 8 long-term follow-up that -- that are embedded in
- 9 and not necessarily considered to be long-term
- 10 follow-up, but I think the -- with the definition
- we have, really do hit it.
- So, some newborn screening programs have
- 13 specific referral contracts with specialists and
- 14 are able to get feedback from those groups that
- 15 they have contracts with regarding whether or not
- 16 individuals followed up with them. But, again,
- one of the things that we heard a lot was that
- 18 the -- that there was this either absence of
- 19 responsibility or -- or absence of authority that
- 20 limits what the newborn screening programs can
- 21 do, specifically around long-term follow-up.
- 22 You'll not be surprised to note that issues of

- 1 time horizon is challenging, and nearly everyone
- 2 we spoke to -- and -- and, again, this is not
- surprising -- is that engaging families in this
- 4 process is critical moving forward.
- Next slide, please. So, we did a -- a
- 6 horizon search around long-term follow-up --
- 7 essentially, putting in the -- in the key words
- 8 for long-term follow-up and newborn screening and
- 9 then going through those reports and seeing which
- ones were really associated with long-term
- 11 follow-up and which weren't. And this is going
- 12 to build up what, I think, is going to be a nice
- 13 library for the Advisory Committee to consider.
- 14 K.K. and I went through these articles and
- 15 realized that there was a natural grouping of
- them, and let me just go through and describe
- 17 them.
- So, the first grouping -- and this is not
- 19 a hierarchical order, obviously, in terms of
- 20 importance or anything, but it's just -- just a
- 21 list of the categories that we had. So, the --
- 22 the first type is around recommendations about

- 1 how to conduct long-term follow-up. So, that
- would be things like the reports that the
- 3 Advisory Committee developed around what
- 4 questions should it be able to address or other
- 5 documents that have been developed around how to
- 6 data share for long-term follow-up. So, those
- 7 aren't necessarily reports of outcomes of long-
- 8 term follow-up but provide good information about
- 9 how to do it.
- The second is related to prospective
- 11 studies of data collected by newborn screening
- 12 programs for specific purposes of long-term
- 13 follow-up. The third is for prospective studies
- of the data collected outside of newborn
- 15 screening programs for reasons other than long-
- 16 term follow-up. So, again, two different kinds
- of prospective data, the second one on that list
- there, again, being data collected by the
- 19 programs specifically for this purpose of
- 20 prospective long-term follow-up and then the
- other is prospective data collected by other
- 22 groups. And then, the fourth is retrospective

- 1 studies of existing data collected for research
- or for non-research purposes, so any type of
- 3 retrospective study.
- Now, what I would say from having looked
- 5 at it is, the retrospective studies are -- are --
- 6 have provided a lot of very important
- 7 information, and it's not surprising. So,
- 8 retrospective studies are somewhat more feasible
- 9 because the data are already there, but they have
- 10 the challenge of being able to link the data to
- 11 these retrospective studies are often based on
- 12 complicated linkage between, for example, newborn
- 13 screening program data and different claims data,
- 14 sometimes even including things like vital
- 15 statistics data -- birth certificates, death
- 16 certificates, or educational data, that kind of
- 17 thing.
- Again, the -- the challenge of these
- 19 retrospective studies are identifying the
- 20 datasets and figuring out how to link them
- 11 together. As with any other retrospective study,
- 22 either the -- the quality is only as good as the

- 1 -- the kind of data that you have. So, sometimes
- you might be limited to only claims data instead
- 3 of having, you know, for example, specific
- 4 patient-level data or -- or laboratory data. But
- 5 these play a really important role in terms of
- 6 the evidence that's out there around long-term
- 7 outcomes.
- In terms of -- I -- I just want to
- 9 highlight one other thing, too. The prospective
- 10 studies of data collected outside of newborn
- 11 screening programs, an example of that would be
- 12 the registries that have been set up for
- 13 following individuals who are getting specific
- 14 therapy.
- So, for example, there's registries for
- 16 Pompe disease. We looked at those before, when
- we were doing the systematic evidence review
- 18 around Pompe disease. Oftentimes, families opt
- into these registries, and in that case, Genzyme,
- 20 which, I guess, is now Sanofi Genzyme, managed
- 21 the dataset.
- So, those kinds of registries can be very

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- 1 helpful, but, again, you know, the -- the
- 2 challenge is getting access and making sure that
- 3 one understands what's in it. But I -- I hope
- 4 that this classification helps, and I hope that
- 5 the other thing that it emphasizes is that
- 6 there's more than one way to get to the kinds of
- 7 answers that we're interested in.
- Next slide, please. So, I'm going to go
- 9 back and talk about the -- the -- the studies in
- 10 the first group, the conduct of long-term follow-
- 11 up. So, these have answered the questions of how
- 12 it should function. There was a study that was
- done from the Southeast Regional Collaborative
- 14 that developed what was called the Business
- 15 Process Analysis that showed all the parties that
- were involved and how they would participate in
- 17 exchanging data. There have been -- studies have
- 18 been published around data requirements for
- 19 registries.
- Then, there's specific recommendations
- 21 for making long-term follow-up more feasible.
- 22 So, that -- that includes things like how to link

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- 1 results to other datasets. And there was a
- 2 report that grew out of the Advisory Committee
- 3 about linking blood spot collection device serial
- 4 numbers -- so, the -- the serial number on the --
- on the filter card -- to birth certificate to
- 6 facilitate long-term follow-up, as well as short-
- 7 term follow-up, really. There's work that's been
- 8 done at the regional collaborative level
- 9 describing approaches to long-term follow-up.
- And then, separate to all this, there
- 11 have been a number of surveys that were done --
- 12 these surveys, now, are -- they were between,
- 13 like, five and ten years old -- that were done to
- 14 assess, from the newborn screening program level,
- what sort of data collection they do, what kind
- of follow-up activities they're involved with,
- and what the barriers are to care. So, it's not
- 18 at the individual level, but at least those kinds
- of reports describe what the infrastructure, at
- 20 least back then, was for doing long-term follow-
- 21 up.
- Next slide, please. So, in terms of

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- 1 looking at that -- that -- that body of -- those
- 2 papers, I -- I -- I think it's fair to say that
- 3 long-term follow-up is -- is well defined in
- 4 terms of, at least people know what -- what they
- 5 want to do. It still doesn't necessarily mean
- 6 it's happening, but, again, that people are
- 7 interested in doing it, that there are models for
- 8 long-term follow-up. It's been a focus of the
- 9 regional collaboratives.
- 10 One of the things that became clear as we
- were reading the -- the published literature, as
- well as the -- the gray literature, is that some
- 13 good ideas have come down, but funding and
- 14 sustainability has been a problem. And then, in
- terms of looking at the descriptions of quality
- metrics that have been described, it's not
- 17 surprising, but there's attention between
- 18 condition-specific quality measures versus more
- 19 general measures that could be used across
- 20 conditions.
- Next slide, please. So, in terms of the
- 22 prospective studies in newborn screening, there

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- 1 are a wide range of different conditions that
- 2 have been studied across multiple different
- 3 countries. This -- this work, again, though, is
- 4 hard to do.
- 5 One advantage from these prospective
- 6 studies is that they include a comparison
- 7 population. Again, some of the observational
- studies, especially the retrospective
- 9 observational studies, you need to be careful
- 10 about whether or not there's a comparison group
- or not, because you can easily make the wrong
- 12 conclusions about the effectiveness of a therapy
- within a comparison group. In terms of the
- 14 prospective studies, the -- the longest we saw
- things go out was six years, and most of these
- 16 studies were focused on predictors of long-term
- outcomes based on initial presentation or -- or
- 18 therapy that was given.
- Next slide, please. So, in terms of
- 20 lessons, I mean, you know, it -- it is reassuring
- that the data can be collected by newborn
- 22 screening programs for long-term follow-up to

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- 1 evaluate specific hypotheses, but when you look
- 2 at the -- the papers that have been done, you
- 3 know, obviously, they weren't thinking that, many
- 4 years later, I would be looking at their papers,
- 5 trying to figure out what made these things
- 6 feasible or not, but, oftentimes, they don't
- 7 specifically address, when they are successful,
- 8 how they managed to pull it off or the cost that
- 9 it takes to collect prospective data. And I
- 10 think that that's a -- an important thing to
- 11 consider.
- Next slide, please. So, let's look at
- 13 the prospective studies of data that was
- 14 collected outside of newborn screening. So, just
- 15 to give you a flavor of the kinds of things:
- 16 There was a study that was done in the United
- 17 Kingdom on hearing screening that got captured in
- our search, but we know that there are other
- 19 disease-specific registries that are being used
- 20 to collect long-term data. And so, I spoke about
- the Pompe disease registry, so I won't repeat
- 22 that, and then I also mentioned the cystic

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- 1 fibrosis registry, so I won't repeat the
- 2 discussion there.
- Next slide, please. So, in terms of
- 4 prospective studies of data that was collected
- outside of newborn screening, the lessons learned
- 6 is that, you know, that they're, oftentimes, not
- 7 done. And given the fact that those registry
- 8 studies weren't captured in our -- our initial
- 9 search makes us -- makes me wonder, you know, how
- 10 -- how well we're leveraging them for prospective
- 11 research. Of course, registries can also be used
- 12 for retrospective research.
- Next slide, please. So, I spoke in the
- 14 beginning about the role of retrospective
- 15 studies, and let me just loop back around to that
- 16 again and say that they generally fell into two
- 17 flavors. There's chart audits that are done
- 18 within specific treatment centers, so that can be
- 19 helpful in terms of learning about the patients
- 20 that were seen in that one center, but you can
- lose a comparator group.
- 22 And then, I mentioned before about the

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- 1 data linkage studies. Those are, oftentimes,
- 2 more powerful in that you can collect more
- subjects and do more comparisons, and -- and
- 4 there's the ability to -- to -- depending on how
- 5 it's done, to have a -- a comparator group, but,
- 6 again, there are methodologic challenges
- 7 associated with doing those.
- Next slide, please. So, retrospective
- 9 studies -- You know, I can't put down that --
- 10 that these are efficient for rare disorders. You
- 11 know, one of the -- the challenges is, you're
- waiting for the outcome to occur. I mean, it's
- 13 true, whether or not you're doing a prospective
- or a retrospective study that you need to have
- 15 the outcome of interest occur before you can say
- 16 anything.
- 17 Linkage across the various -- various
- 18 datasets can be difficult, and it -- it -- it's
- 19 easy to do a linkage study wrong. So, I -- I
- think that if we're going to be consumers of this
- 21 kind of work, we need to make sure that things
- 22 are done correctly. Everyone knows, the claims

- 1 data can be incomplete or inaccurate.
- One of the things that, sort of, bubbled
- s through as I was reading these different papers,
- 4 whether they be prospective or retrospective, is
- that there's this gap, I think, around the
- 6 association between intermediate measures and
- 7 long-term outcomes. So, let me drill into that a
- 8 bit so -- so it makes sense.
- 9 So, as clinicians, we're interested in
- 10 length of life, quality of life, opportunities
- 11 for children as they become adults, those sort of
- 12 patient-centered, meaningful outcomes. But those
- can take a long time to develop, and they can be
- 14 difficult to measure. So, more often, you may
- 15 find intermediate measures, so changes in a
- 16 biomarker or changes in the receipt of some
- 17 service being given, that -- that kind of thing.
- And I think it would help the field if
- 19 there were better linkages between these
- intermediate measures and long-term outcomes,
- 21 from a -- a research perspective, given how
- 22 complicated it is to do this work. So, these are

- 1 rare conditions with outcomes that may not happen
- 2 for quite a long time. So, I think that that's a
- 3 -- a fertile area for potential research.
- Next slide, please. So, I -- I'm going
- to highlight some examples of long-term follow-up
- 6 activities. This is part of our gray literature,
- 7 unpublished search, as well. This is not meant
- 8 to be complete. I just want to illustrate some
- 9 things. I'm sure that I'm going to leave out
- 10 everyone's favorite long-term follow-up activity,
- and, hopefully, during the Q&A period, you -- you
- 12 can bring it up. Again, this is just meant to --
- 13 to give the taste of -- of what's out there.
- Next slide, please. So, I want to
- 15 highlight something done in California, where
- they have a web-based screening information
- 17 system, which can facilitate referral tracking
- 18 and coordination. That was the kind of thing
- 19 that I talked about before. And these centers
- 20 can provide follow-up through five years of age
- using an annual patient summary, so, you know, a
- 22 high-level accounting of how individuals are

- 1 doing. There's a Colorado program that includes
- 2 a legislative requirement mandating reporting of
- 3 birth defects and other newborn disorders that
- 4 facilitates linkage of datasets, so vital
- 5 statistics, hospitalizations, and that kind of
- 6 thing.
- Next slide, please. Can you go to the
- 8 next slide? There we go. Illinois has a -- an
- 9 annual report based on data collected for
- 10 children through 15 years of age. Minnesota has
- 11 a dedicated long-term follow-up advisory -- it
- was actually somebody in the technical expert
- panel -- but they're engaged in a wide variety of
- 14 tracking of -- of outcomes, and they're also
- 15 collecting parent-reported developmental status
- on children.
- Next slide, please. Clearly, long-term
- 18 follow-up activities, in the past, has been a
- 19 focus of the regional centers, as well as the
- 20 National Coordinating Center. In the brief time
- that I have today, I can't go through all these
- 22 particular activities, but -- but, clearly, data

1 collection, evaluation, quality improvement have

- 2 all been a focus.
- There's the NBS Connect program, which
- 4 developed out of the Southeast Region. It
- 5 includes a patient registry and portal, and it's
- 6 focused on inherited metabolic disorders.
- Sue Berry, before, mentioned some of the
- 8 work that -- that's going on with the Newborn
- 9 Screening and Translational Research Network, and
- in specifically, Longitudinal Pediatric Data
- 11 Resource, which is a data repository for specific
- conditions, including, for example, SMA, and it's
- 13 built on a REDCap database. If we have time,
- 14 Sue, if you want to comment further on -- on
- 15 that, it -- that would be great.
- NewSTEPs, as everyone knows, and
- 17 especially from the presentation this morning,
- 18 has really been focused on the issues of data
- 19 reporting infrastructure but, thus far, has been
- 20 focused on short-term quality indicators as
- 21 highlighted by the timeliness presentation
- 22 before. Obviously, short-term follow-up is an

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- important component to the whole process of
- making sure that newborn screening works, but you
- 3 know, thus far, most of their work has been
- 4 around the -- the -- on the short-term side of
- 5 things. I invite them to comment on -- on future
- 6 directions that they plan.
- Next slide, please. So, let me -- let me
- 8 just end by summarizing that I think it's
- 9 important to think of long-term follow-up as
- 10 having these two different aims: the -- the part
- around assuring care delivery, but also the part
- around program evaluation and research. I think
- there's tremendous opportunities in terms of
- 14 standardizing long-term follow-up outcome,
- measures focusing on the quality metrics,
- 16 thinking about things at the -- the three levels
- 17 -- the patient, the population, the system level
- 18 -- expanding use of registries, and expanding
- 19 support for observational research, whether -- I
- 20 -- I have retrospective written here, but,
- obviously, prospective is also important. But I
- 22 think that -- that there's lots of opportunity

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- around the retrospective side of things in terms
- of identifying datasets, linkages, thinking about
- 3 risks of bias assessment in -- in what these
- 4 things mean.
- So, let me just end by saying, it's
- 6 impressive to see how much work is going on
- 7 around the topic of long-term follow-up, but also
- 8 say that I think that there's tremendous
- 9 opportunity to continue to think about what the
- 10 Advisory Committee can do to foster more complete
- 11 long-term follow-up, with the ultimate goal of
- improving the health of individuals identified
- 13 through newborn screening.
- So, let me just stop there and open
- things up for questions or comments.
- DR. JOSEPH BOCCHINI: Alex, thank you.
- 17 That was a really -- a nice presentation, and I
- 18 think, given where the Long-Term Follow-Up and
- 19 Treatment Workgroup is, I think it -- it really
- 20 helps inform their work, in fact, within --
- overall, the work of the Committee. So, thank
- 22 you.

- First, we have Sue Berry.
- DR. SUSAN A. BERRY: I'm sorry to --
- 3 This is Sue Berry. I'm sorry to have the -- the
- 4 jumpy finger there, you know, with my little hand
- 5 raising, but I -- Alex, thank you for the
- 6 tremendous amount of effort that this took. It's
- 7 a really -- a complicated set of questions and --
- 8 and so much at the heart of what we want to
- 9 succeed at in newborn screening. So, I
- 10 appreciate all of the attention that you and K.K.
- 11 played to this.
- 12 Couple comments just to add some
- additional thoughts in terms of resources of
- 14 extant activities -- I'm going to point out the
- 15 hard work that NORD has been doing with patient
- 16 advocacy groups to encourage patient-centered
- 17 development of data collection regarding specific
- 18 disorders. That, I think, will be a really
- valuable resource and presents a really critical
- 20 element in our plans for long-term follow-up,
- which is -- is, how the families think we're
- 22 doing.

- The other big resource that we don't
- 2 always think of is that there are selected rare
- disease networks, the NCATS, RDCRCs, that have
- 4 some crossover with newborn screening because
- 5 they follow disorders that are newborn screened.
- 6 And the one I specifically mentioned is the very
- 7 specific issue of -- of urea cycle disorders.
- I wanted to bring up two specific
- 9 challenges that you highlighted that I want to
- 10 really emphasize. The first one is the idea of
- 11 the single identifier. We've addressed this
- issue a number of times through the years since
- 13 I've been watching the Committee, and there's
- 14 always this sense that people are afraid to have
- a single, government identifier. It kind of
- 16 freaks people out that the carrier from birth,
- and -- and when people have tried to assign such
- numbers previously, it's been met with
- 19 resistance. I don't know if that will still be
- 20 true, but it's something, I think, we need to be
- 21 cognizant of as -- as a potential issue.
- 22 And the other thing I'm going to

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- 1 highlight is the issue of sustainability. You
- 2 mentioned it, but I -- I can't emphasize that
- 3 enough. I think we've brought it up in a number
- 4 of these discussions today already, which is that
- 5 the ability to collect and maintain these kinds
- of data are -- it's expensive and -- and people
- intensive, and -- and I just hope, as we consider
- 8 this, we'll also consider manpower issues, or
- 9 peoplepower issues, perhaps. Thanks.
- DR. JOSEPH BOCCHINI: Thank you.
- Bob Ostrander?
- DR. ROBERT OSTRANDER: Yeah, hi, thanks.
- 13 So, that was a great talk, Alex. It's Bob
- 14 Ostrander, American Academy of Family Physicians.
- 15 Just want to kind of tell you what my takeaway,
- 16 30,000-foot-view impression was after listening
- 17 to all this, and, you know, I hope it reinforces
- 18 what we think needs to be done and that there is
- 19 a tremendous amount of work being done on this,
- 20 obviously, across the landscape. And the
- 21 struggles that you pointed out at the end,
- 22 because we aren't really meeting our goals,

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- 1 suggests that it's a -- a lot of energy that
- 2 isn't channeled to produce as much result as it
- 3 could.
- 4 And the other thing that immediately
- 5 comes to my mind when I hear about all this work
- 6 that's being done is, as Sue pointed out earlier,
- 7 and others, if we were to federate this and ask
- 8 the centers to do it, it would take a lot of
- 9 commitment and resources. What work that's being
- 10 done right now is taking resources. I mean, that
- work isn't being done for free, without time and
- 12 treasure. And I think we're spending a -- a lot
- of time and treasure with returns but not nearly
- 14 the return -- the bang for the buck and the bang
- 15 for the time we could get if it was more focused.
- So, I -- I -- so, my -- my takeaway is
- 17 two things. One is, I think it is imperative
- 18 that we, you know, really try to work to use
- 19 planning to redesign the system, so that all this
- 20 great work reaps the maximum benefit and, number
- 21 two, I think we need to look at the resources
- that we're accessing right now to do some of this

- work and see if we couldn't transfer some of
- those resources to the work that we propose
- instead of having to generate new revenue
- 4 streams, and that might make it a little less
- 5 impossible to achieve a vision over time.
- DR. JOSEPH BOCCHINI: Thank you. Next, I
- 7 have Melissa Parisi and then Chris Kus.
- 8 Melissa?
- DR. MELISSA PARISI: Hi, this is Melissa
- 10 Parisi, and I just wanted to follow up some of
- 11 the comments that Sue Berry made a few moments
- ago. And, also, thank you, Alex, for your
- 13 excellent presentation. You certainly raised a
- 14 lot of the issues related to long-term follow-up.
- 15 At the NIH, we, of course, are very
- interested in research into developing treatments
- 17 that will improve the lives of people who have
- 18 newborn screening conditions, and the challenge
- 19 has been, for us, that many of the studies that
- 20 really address long-term follow-up, or what we
- 21 would call natural history studies, are very time
- 22 and labor and money intensive. But there are a

- 1 few mechanisms that have been developed that I
- think have been reasonably successful at allowing
- 3 investigative teams to really -- you know, really
- 4 pursue some of these natural history studies for
- some of these rare conditions that we're talking
- about that are the consequence of newborn
- 7 screening, and I just wanted to highlight a few
- 8 of those for people on the call.
- The first one, of course, was mentioned
- 10 by Alex and by Sue, the Newborn Screening
- 11 Translational Research Network, which is, really,
- 12 a contract funded to the American College of
- 13 Medial Genetics and Genomics to try to capture
- 14 the datasets that are so valuable for many of the
- 15 conditions that are screened in newborns. And
- 16 this can include conditions that are already on
- 17 the RUSP or conditions that impact newborns but
- 18 could have the potential to be added to the
- 19 Recommended Panel.
- 20 And at this time, we are linking the
- 21 datasets -- some of those datasets to global
- 22 unique identifiers because, from the NIH

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- 1 perspective, any data that are generated should,
- really, be shared as broadly as possible, while,
- of course, protecting the individual identities
- 4 of those impacted newborns. And one of the ways
- 5 to do so is through an algorithm that allows for
- 6 these global identifiers to be generated and to
- 7 be linked to that individual, without actually
- 8 revealing the individual, personal, identifying
- 9 information. So, that's one of the resources
- 10 that -- that exists that is funded by NIH.
- A second is one raised by Sue Berry,
- which is the Rare Disease Clinical Research
- 13 Network, and these currently are -- now there are
- 14 22 different RDCRCs or consortia that are
- 15 studying over a hundred different rare diseases,
- and a number of these, at least 50% of these
- 17 conditions that are part of the Rare Disease
- 18 Clinical Research Network funded -- led by the
- 19 Office of Rare Diseases Research -- over 50% of
- 20 these impact pediatric patients, and quite a few
- 21 have implications in -- for newborn screening.
- 22 So, I know that the current RFA is on the

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- 1 streets, and applications are due in October for
- 2 the next round of these awards, and -- and we
- 3 hope that some of them will actually include
- 4 newborn screening-related conditions.
- And then, finally, we have a program
- 6 announcement with specified review for natural
- 7 history studies for conditions that are either
- 8 part of newborn screening or could be screened
- 9 for a newborn. And this is a specific mechanism
- 10 that invites natural history-type studies, which
- 11 really can inform long-term follow-up for some of
- 12 these rare neonatal conditions. Because there's
- a specified review, the panels are sympathetic to
- 14 the fact that natural history studies,
- oftentimes, aren't hypothesis driven. So,
- there's actually value in having somewhat more
- 17 exploratory aims. And we've funded a number of
- 18 projects under this program announcement that
- 19 have been guite important for the field, and --
- 20 and we are about to renew this for another three
- years. So, that's one of the things on the
- 22 street.

And then, my final comment is, really,

- 2 just one about the value of historical controls
- 3 in terms of developing treatment trials for some
- 4 of the conditions in newborn screening. I don't
- 5 want to speak for FDA, but I know that for some
- 6 conditions, and I think Pompe disease is one of
- 7 them, having the data where historical controls
- 8 and -- and, sort of, historical data about
- 9 natural history actually was really instrumental
- in being -- in allowing the FDA to approve the
- intervention or the drug for that particular
- 12 condition. And so, I think that the value of
- doing research in this environment cannot be
- 14 underestimated.
- And this also creates the evidence base
- 16 for adding conditions to the -- the Recommended
- 17 Panel, but there is one caveat: By virtue of
- doing newborn screening, we change the natural
- 19 history of many of these conditions. So, there's
- 20 always the challenge that historical controls and
- 21 the historical data about natural history can be
- 22 problematic in terms of looking forward. So, we

- 1 always have to be nimble about trying to gather
- the new data that inform treatment trials.
- That's it. I just wanted to make those
- 4 comments. Thank you.
- DR. JOSEPH BOCCHINI: Thank you, Melissa.
- And, next, I have two Committee members:
- 7 Cindy Powell and Jeff Brosco.
- 8 Cindy first.
- 9 DR. CYNTHIA M. POWELL: Hi, this is
- 10 Cynthia Powell. I just wanted to mention the
- importance but, unfortunately, the lack of
- 12 evidence-based treatment and management
- 13 quidelines. I know that efforts have been made,
- 14 you know, in recent years, by the ACMG and the
- 15 Genetic Metabolic Dietitians International Group.
- 16 These are very time-consuming and expensive
- of efforts, and especially for new conditions on the
- 18 RUSP or -- or being added to the RUSP, but also
- 19 for, even, conditions that have been on the RUSP
- 20 for a long time. I -- I think there's a -- a
- lack of these, and if we're going to really make
- inroads in terms of quality improvement, these

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- 1 are, you know, extremely important. Thank you.
- DR. JOSEPH BOCCHINI: Jeff Brosco?
- DR. JEFFREY P. BROSCO: Yeah, this is
- 4 Jeff Brosco. So, I -- I have a question for --
- 5 for you, Alex, and maybe K.K., and this is a
- 6 great presentation, and -- and it makes sense of
- 7 a lot of complex literature. And -- and
- 8 obviously, a lot of your focus was on published
- 9 literature because that's what's available, which
- often leads to -- to research and longitudinal
- 11 studies.
- But if we think in -- for a minute about,
- 13 you know, in any one state or territory, if we
- wanted to know whether a child who is eight years
- old, who was diagnosed with PKU through newborn
- 16 screening, was getting treatment and appropriate
- 17 follow-up, and someone was checking in to how
- 18 he's doing, I guess some states might be doing
- 19 something, some registries might be doing
- 20 something, but, in some sense, we -- we don't
- really have a good handle on what's happening
- 22 anywhere.

- And I just wonder -- the question for
- you, really, is, you gave us, sort of, the -- the
- 3 30,000-foot view in your presentation. Will your
- 4 report have more detail about what's happening,
- or at least references, just, say, if we wanted
- 6 to know what was happening in -- in different
- 7 places around the states?
- DR. ALEX KEMPER: Yeah, so we -- the
- 9 report'll have more detail, and we'll have
- 10 references to what happens within individual
- 11 states where we could find that from either a
- 12 published thing or -- or looking in the gray
- 13 literature. So, there's a lot of states where we
- just couldn't find anything from looking, and we
- 15 -- One of the restrictions from this kind of
- work is that we can't do a -- a survey of each
- 17 state newborn screening program. Certainly, we
- 18 can reach out to the -- the NCC and see if they
- 19 have any information for the states that we don't
- 20 have.
- One of the things that I think is -- is
- 22 interesting again to -- to think about is this

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- 1 issue of authority, as well, in terms of, you
- 2 know, what -- what states are allowed to do. So,
- 3 you know, I've presented some models of -- of
- 4 some states, like California, that -- that has an
- 5 active program where they can see who was
- 6 followed up at one of the sites that they
- 7 contract with, but, remember, too, that -- that
- 8 not everyone is -- is followed by a specialty
- 9 center, right? So, I'm thinking about congenital
- 10 hypothyroidism, for example.
- So, this is a very long-winded,
- roundabout way to say, we'll -- we'll give you
- more granular detail on everything that we could
- 14 find, but, just by nature of the way that we can
- 15 collect data, it's going to be incomplete.
- DR. JOSEPH BOCCHINI: Okay. K.K., did
- 17 you want to add something? K.K. Lam?
- DR. K.K. LAM: Yes, hi, this is K.K. Lam.
- 19 I work with -- Oh, I'm echoing really bad.
- DR. ALEX KEMPER: I -- I would say, we
- 21 are a great team, and I really should -- I meant
- to thank K.K., again, for all the work that she's

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- 1 done to make this possible. So, let me just slip
- that in right there.
- 3 (Laughter)
- DR. K.K. LAM: Well, and right back at
- 5 you, Alex. So, it's a team, for sure. And I --
- 6 I don't know if you can hear the echo. I can
- 7 hear my own echo on this, but --
- I just wanted to add, in response to
- 9 Jeff's comments, that, yes, and in part -- So,
- 10 the -- the illustrative cases that -- that Alex
- mentioned -- you know, for instance, California,
- a bit on Colorado, Illinois, and some of the
- 13 states that we've identified that -- that do have
- 14 systems in place, long-term follow-up systems of
- some sort, right, where they're tracking
- information at an overall level, which is, I
- 17 think, what you're talking about -- As we had
- 18 talked about before in our -- in our discussions,
- 19 you know, we -- we are going to try and highlight
- 20 some of the -- as much as we can, the procedures
- and details about those in terms of, you know,
- 22 what about this has worked, kind of as models,

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1 basically, a practice that may now help -- may
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- 2 help inform, right, any roadmap that might go on,
- 3 without fully recommending, but --
- And, similarly, in the report, we've
- 5 highlighted the -- Colorado's system, as I
- 6 understand it -- now, I know that it always
- 7 changes, and so I'm still verifying the -- the --
- 8 the currency, but the -- part of their system is
- 9 a -- or, at least, part of their follow-up system
- 10 and public health surveillance system follows
- 11 birth defects and at least some of the newborn
- screening disorders. So, it's -- it's not a
- 13 newborn screening long-term follow-up, right, but
- 14 it overlaps. And that's, at least in, you know,
- 15 a few -- as of a few years ago, had some nice
- 16 crossover in a model for Waybets (phonetic)
- 17 that's united these, or at least, kind of,
- 18 forced, by mandate, these different systems to
- 19 coordinate.
- So, to that degree, our hope is that we
- 21 will know -- in the -- the final, final report,
- 22 we will have some of those -- those more -- some

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- of those particular states of where there's
- 2 clearly systems set up and ongoing follow-up,
- 3 where we can try and highlight some of the things
- 4 that seem to be effective in what they might have
- 5 to offer and then, potentially, any limitations
- on a national level, because they're clearly
- 7 state specific.
- DR. JOSEPH BOCCHINI: Thank you, K.K.
- 9 So, we only have time for two more comments, so
- 10 we'll go in line to Sue Berry and then Mike
- 11 Watson.
- 12 Sue?
- DR. SUSAN A. BERRY: So, I'll keep it
- 14 quick. This is Sue Berry. I -- I want to -- and
- 15 help me with NewSTEPs, experts, but I want to say
- that's something they may know. They may not
- 17 know what states are doing, but they may know if
- 18 they are doing newborn screening follow-up, at
- 19 least just a -- a "yes" or "no," because there
- 20 are flat out some states that can't and don't.
- 21 And I -- I -- I think one attribute may be to
- 22 find ways to at least ask if they -- if they are

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- 1 doing it. I don't -- and -- and for those that
- 2 aren't, get some sense of what the barriers are,
- 3 and authorization is the key there, I would
- 4 suspect. Thanks.
- 5 DR. JOSEPH BOCCHINI: Thank you. Mike?
- DR. MICHAEL S. WATSON: Yeah, thanks,
- 7 Joe. Mike Watson. So, I -- to build on what Sue
- 8 said, I think we also have to understand why
- g states do long-term follow-up or at least why we
- 10 think long-term follow-up is important to be
- 11 done. We already work with -- I mean, we've had
- meetings of 15- to 17 states and are working with
- a lot of them right now developing long-term
- 14 follow-up, but the state programs have more of an
- interest in public-health kind of issues -- Are
- 16 people getting the care? Are they seeing
- 17 specialists, or are they seeing primary care? --
- while the provider side is much more interested
- in -- in the outcomes and, you know, knowing how
- 20 and certainly in the earlier -- earliest stages
- of our pilots, understanding, what are the
- 22 experiences of the other providers, because

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1 that's when we start to find out lots of things

- 2 we didn't know when we went into the pilot
- 3 studies.
- I would also add that the literature is
- 5 going to be a little deceptive as to what the
- 6 current lay of the land is. I think the regional
- collaboratives are gone now. They're now the
- 8 Regional Genetics Networks, and -- and I'm still
- 9 the head of the National Coordinating Center for
- 10 them, but their focus has shifted over to access
- of populations -- really, underserved populations
- 12 -- to services much more than they're being
- involved in long-term follow-up.
- During that transition and the
- development of the NBSTRN, most of the issues
- 16 related to long-term follow-up have fallen over
- 17 to the NBSTRN side, where we now have somewhere
- between 7,000 and 7,500 babies identified in
- newborn screening, with any of a large number of
- 20 conditions, who are being followed at interval
- visits. Some have finished and have acquired
- 22 data over several years, and others are

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- 1 continuing.
- You know, we're -- we -- we're running
- 3 four pilots right now. We'll probably have six
- 4 multi-state pilots going by next year. We build
- 5 the clinical data elements and underlying data
- 6 collection tools for those before we start the
- 7 pilot. So, that is very much in place. It's
- 8 where we're not involved in the pilots that they
- 9 tend not to go with, you know, sort of, goals of
- 10 compatible data over the long term.
- 11 And then, to build on something that --
- well, actually, I think when we're thinking about
- 13 genetic diseases, you have to remember that these
- 14 are rare diseases. They have a fair bit of
- 15 variable expressivity, and the underlying genetic
- 16 etiology is enormously variable. So, it's not a
- 17 question that can be answered, generally, in a
- 18 very short period of time.
- As to the outcome, there's enough
- variation that contributes stage of onset and
- 21 severity that I -- I think it's actually a -- you
- 22 know, a post-market-surveillance kind of problem,

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- 1 much like the Orphan Drug Act was developed to
- address, where, you know, there's a certain
- amount of data that tells you, you -- you know
- 4 enough and probably should start screening, but
- 5 then you put in place, essentially, a -- a -- a
- 6 requirement for data sharing, much like post-
- 7 market surveillance does for the Orphan Drug Act,
- 8 and then you learn, over time -- because with
- 9 these -- with the amount of variation in genetic
- 10 disease, finding one doesn't tell you a whole lot
- 11 about all of them. So, you do need a long-term
- 12 plan for everybody to be able to improve in the
- 13 care they deliver to these -- to these babies.
- Some things can't be done
- 15 retrospectively. We can't do -- generally, we
- can't do much about age of onset and penetrance
- 17 retrospectively, because we have very biased data
- 18 from people who are sick, very little
- 19 asymptomatic-people data that we can use to
- 20 predict likely outcomes. So, you know, it's a
- very different kind of dataset in newborn
- 22 screening.

And then, lastly, I would say, we need to

- 2 build -- I think Debbie Freedenberg commented
- 3 earlier that we need to look, when we're dealing
- 4 with educational delivery, at new formats by
- 5 which education is delivered, much of it web
- 6 based, much of it electronic, light bulbs under
- 7 EMRs and that kind of thing. We're already
- 8 working with the eMERGE Network and the EHR
- 9 Workgroups and ClinGen to facilitate
- interoperability of a lot of this kind of
- information, but, ultimately, if we can't get the
- 12 right kind of information we need into EMRs that
- can then be taken at the time you need to do an
- analysis, then we're never going to be able to
- 15 sustain this effort.
- So, I think we've got to look at the
- whole system. The paper we're writing should be
- done in a couple of months and does look
- 19 carefully at the nature of the systems in which
- we're trying to operate these programs. And
- unless we take a high-level look at -- at -- at
- the way we approach these kinds of things, I

- don't think we're going to do any better than
- short -- very short-term solutions. That's all.
- DR. JOSEPH BOCCHINI: Thanks, Mike. I --
- 4 I think your work is certainly going to help
- 5 inform the work of the -- well, the Workgroup, as
- 6 well as the Committee.
- So, Jeff, as Chair of the Long-Term
- 8 Follow-Up Workgroup, do you want the last
- 9 comment?
- DR. JEFFREY P. BROSCO: Sure. I'll just
- 11 say, very quickly, this has been an extremely
- 12 rich discussion, and I've been taking notes
- 13 furiously that we'll -- we'll follow up as a
- 14 workgroup. And then, part of it's going to be, I
- 15 think -- and -- and -- and Alex and everyone else
- 16 has really helped separate this out -- you know,
- what is the follow-up that you need to do for
- 18 research purposes to show how you improve
- 19 treatment, what needs to be done for program
- 20 evaluation to make sure programs are running
- well, and what, kind of, needs to be done at a
- 22 population-health level to make sure that every

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- 1 child with a condition is getting good treatment?
- 2 And -- and that might be one of the ways we start
- 3 dividing up how we assure long-term follow-up, is
- $_4$ -- is to -- is to separate out those, sort of,
- 5 three different activities.
- So, thank you, everyone. This has been
- 7 incredibly helpful for moving our workgroup
- 8 ahead, and we hope to bring the recommendations
- 9 to the November meeting.
- DR. JOSEPH BOCCHINI: All right. Thank
- 11 you very much.
- Let's put up the next slide set, and,
- 13 Alex, you are back in the hot seat.
- DR. ALEX KEMPER: Fantastic. So, I am --
- in the interest of time, actually, I'm going to
- 16 go through this presentation quickly, so that
- 17 there's time for questions. And let me -- let me
- 18 just echo what Jeff just said. I -- I thought
- 19 that conversation was really interesting, and I -
- 20 I learned a lot from the -- the whole process.
- 21 So -- so, thank you for the -- thank you for
- 22 that.

So, the second project that K.K. and I

- 2 have been working on is developing this newborn
- screening technology compendium. Dr. Bocchini
- 4 talked about it before, but the whole idea of
- this is to provide, essentially, high-level
- 6 background information around screening methods
- 7 diagnostic approaches, and treatment, the idea
- 8 being that not only the Advisory Committee but --
- 9 but -- but, really, the -- the general public is
- 10 having to -- you know, or -- or interested
- 11 parties, are having to communicate and make
- decisions around newborn screening.
- And with how fast the technology is
- changing and with how nuanced everything is, it's
- important that everybody operate from a -- from
- 16 the same place in terms of when they're talking
- 17 about the various screening methods, diagnostic
- 18 approaches, or treatment. So -- and -- and like
- 19 I said, everyone knows that -- that things are --
- 20 are changing very rapidly.
- So, what we're doing is working on
- 22 developing, you know, sort of, this living

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- 1 document. I think of it as, kind of, like, the
- 2 Wikipedia of -- of newborn screening, writ --
- 3 writ large. And we're doing this by -- we --
- 4 we've, like we normally do, convened a technical
- 5 expert panel. Looking at the literature, we've
- 6 identified areas that we think would be helpful
- 7 for everyone. I am pleased to say that -- that I
- 8 had a very helpful conversation this morning with
- 9 Dr. Carla Cuthbert at the CDC, who is also going
- 10 to be helping us around describing the different
- 11 screening technologies.
- So, we have developed a -- a standard
- 13 template for moving forward in terms of
- 14 describing what the particular technology is,
- what its application is related to newborn
- 16 screening, issues of, if it's a screening test,
- 17 screening accuracy versus other outcomes, and
- 18 that's all -- you know, you can classify it under
- 19 benefits. And then, we have a harms and risks
- 20 category related to potential unintended
- outcomes, false positives, that kind of thing,
- 22 costs, and that -- that -- resources needed,

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- where we can find that -- special considerations
- 2 around regulatory issues, FDA approval or that
- 3 kind of thing, and key references.
- So, let me just, in the -- just -- just
- 5 to help, I'm going to advance a few slides. Can
- 6 you go to the next slide? And the next slide?
- 7 I'm just trying to make sure we get out by 3:00.
- 8 I don't want to get any -- get in trouble. Next
- 9 slide. Next slide. Next slide. And, again, if
- 10 you look in the -- if you look in the briefing
- 11 book, we have a -- a -- a list of some of the
- issues that we're going to be addressing,
- although it's -- it's growing from there, and
- 14 you'll see that in the next report. This is a
- 15 list of the general template that -- that I'd
- 16 spoken about before.
- Next slide. And I'm not sure how well
- 18 this broadcasts on your screen, but this just
- 19 gives you an -- a -- a sense of what the
- 20 template will look like. And, again, we'll be
- 21 cross-linking to the various technology reports,
- 22 you know, as -- as they populate in our little --

- 1 again, I'm thinking of it as, like, a Wikipedia
- 2 kind of thing.
- So, let me -- Joe, maybe I'll go ahead
- 4 and -- and stop here to see if anybody has any
- 5 particular questions about where this particular
- 6 train is going or if they have any advice about
- 7 what we're doing.
- DR. JOSEPH BOCCHINI: All right. This is
- 9 open for questions, comments. Thank you, Alex.
- Mei Baker.
- DR. MEI BAKER: Okay. Yeah, just quick,
- 12 I think it's a wonderful thing to do. One of the
- things I think that will become so helpful, and I
- 14 do see your template here, reduce the cost. This
- is just so hard for me to grasp. Reduce the cost
- 16 compared with what? So, if you can say, this
- 17 specific technology, it costs how much -- just
- 18 putting in there. So, that, I think, will be
- 19 more useful.
- DR. ALEX KEMPER: Yeah, I -- we will try
- 21 to put in costs where we can find it. What --
- 22 what I've learned from starting to look at things

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- is that cost data are hard to come by in -- in
- 2 figuring out what's actually included in the
- 3 cost. The good news is, I'm going to ask -- this
- 4 -- this may be good news for me but not good news
- 5 for him -- ask Scott Grosse, who's our resident
- 6 expert on this kind of thing, to weigh in on
- 7 things.
- I should have also mentioned, when we
- 9 were doing the Long-Term Follow-Up report, that -
- 10 that Scott's been -- was very helpful in that
- 11 process, as well. But getting back to the issue
- of cost -- To the degree that we can find it and
- to the degree that it's valid and reliable, we'll
- 14 put it in.
- DR. JOSEPH BOCCHINI: Thank you.
- DR. CARLA CUTHBERT: This is Carla --
- DR. JOSEPH BOCCHINI: Yes, go ahead.
- DR. CARLA CUTHBERT: I know that time is
- of issue here, but I just wanted to reiterate
- 20 that APHL and CDC do provide week-long, hands-on
- 21 training courses for various technologies in
- newborn screening. So, we will be very happy to

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- 1 leverage our experience and the information that
- we have from those courses to be able to provide
- 3 information that would be relevant to the -- to
- 4 the -- the general public, I guess, but to the
- 5 Committee, specifically, as it -- as it relates
- 6 to the technology and the screening technology.
- DR. JOSEPH BOCCHINI: Thank you, Carla.
- 8 Are there additional questions, comments?
- 9 (No audible response)
- DR. JOSEPH BOCCHINI: All right. Well,
- we look forward to your continuing work in this
- area, Alex, and the fleshed-out document. So,
- 13 thank you.
- DR. ALEX KEMPER: Thank you.
- DR. JOSEPH BOCCHINI: Are there any -- is
- there any new business that any of the Committee
- members wish to bring forward at the present
- 18 time?
- 19 (No audible response)
- DR. JOSEPH BOCCHINI: Hearing none, I
- 21 want to thank everybody for their participation
- 22 today. I think we've had a really good meeting,

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- 1 and there's -- from the input that we've had, I
- want to thank the organizational representatives,
- 3 as well as everybody who works on the individual
- 4 workgroups, because it's clear that a significant
- 5 amount of effort is being made to move projects
- 6 forward and to -- to bring information to the
- 7 Committee to inform its work.
- So, in summary, many of you are going to
- 9 be hearing from the Committee soon about either
- 10 serving on the Steering Committee or being a
- 11 participant in the upcoming review of our
- nomination and evidence review processes, as well
- as our decision-making process, as well, and --
- 14 and then, I think, based on the conversations
- today, we do have a number of items that we will
- be thinking about how to schedule, going forward,
- 17 to be on subsequent meetings to then move those
- 18 topics forward.
- I want to remind everybody that the next
- 20 meeting will be in -- in Rockville on November
- 1st and 2nd, and that'll be in person, as well as
- webcast.

- So, again, I want to thank everybody for
- their participation today and thank HRSA for
- 3 doing all the homework to make this happen. We
- 4 apologize for the issues related to the videos,
- 5 but we are going to make them all available to
- 6 all of the participants, so that they can be
- 7 viewed in their entirety at your home. And then,
- 8 we'll look forward to seeing you all in November.
- So, thank you. That'll conclude the
- 10 meeting.
- 11 (Whereupon, the above-entitled matter was
- concluded at 3:00 p.m.)