

1 Health Resources and Services Administration

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8 Advisory Committee on Heritable Disorders

9 in Newborns and Children

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15 Meeting by Webinar

16 9:30 a.m. to 11:27 a.m.

17 Tuesday, September 24, 2019

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22 Reported by: Ashleigh Simmons

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2 **Kyle Brothers, M.D., Ph.D.**

3 Endowed Chair of Pediatric Clinical and

4 Translational Research

5 Associate Professor of Pediatrics

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8 **Jane M. DeLuca, Ph.D., R.N.**

9 Associate Professor

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12 **Scott M. Shone, Ph.D., HCLD (ABB)**

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14 North Carolina State Laboratory of Public Health

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19 Senior Advisor

20 Child Health and Quality Improvement

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13 Health

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15 **Health Resources and Services Administration**

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19 Health Needs

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1 DESIGNATED FEDERAL OFFICIAL

2 **Catharine Riley, Ph.D., M.P.H.**

3 Health Resources and Services Administration

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5 Maternal and Child Health Bureau

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8 **American Academy of Family Physicians**

9 Robert Ostrander, M.D.

10 Valley View Family Practice

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12 **American Academy of Pediatrics**

13 Debra Freedenberg, M.D., Ph.D.

14 Medical Director, Newborn Screening and

15 Genetics, Community Health Improvement

16 Texas Department of State Health Services

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18 **American College of Medical Genetics & Genomics**

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10 Manager, Laboratory Operations Unit

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17 Division of Family Health

18 New York State Department of Health

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20 **Association of Women's Health, Obstetrics, &**

21 **Neonatal Nurses**

22 Jacqueline Rychnovsky, Ph.D., R.N., CPNP, FAANP

1 Vice President, Research, Policy, and Strategic
2 Initiatives

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4 **Child Neurology Society**

5 Jennifer M. Kwon, M.D., M.P.H., FAAN

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12 **Department of Defense**

13 Jacob Hogue, M.D.

14 Lieutenant Colonel, Medical Corps, US Army

15 Chief, Genetics

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18 **Genetic Alliance**

19 Natasha F. Bonhomme

20 Vice President of Strategic Development

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2 Siobhan Dolan, M.D., M.P.H.

3 Professor and Vice Chair for Research

4 Department of Obstetrics & Gynecology and

5 Women's Health

6 Albert Einstein College of Medicine and Montefiore

7 Medical Center

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9 **National Society of Genetic Counselors**

10 Cate Walsh Vockley, M.S., LCGC

11 Senior Genetic Counselor

12 Division of Medical Genetics

13 UPMC Children's Hospital of Pittsburgh

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15 **Society for Inherited Metabolic Disorders**

16 Georgianne Arnold, M.D.

17 Clinical Research Director, Division of Medical

18 Genetics

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

2 DR. CYNTHIA POWELL: Good morning,
3 everyone. Since we're meeting by webinar today, I
4 wanted to introduce myself. I'm Cindy Powell,
5 Chair of the Advisory Committee on Heritable
6 Disorders in Newborns and Children. I would like
7 to welcome you to the Committee's fourth meeting
8 in 2019. We will begin by taking the official
9 roll call. Kamila Mistry.

10 DR. KAMILA MISTRY: Here.

11 DR. CYNTHIA POWELL: Mei Baker. She's
12 unavailable. Susan Berry.

13 DR. SUSAN BERRY: I'm here.

14 DR. CYNTHIA POWELL: Jeff Brosco.

15 DR. JEFF BROSCO: I'm here.

16 DR. CYNTHIA POWELL: Kyle Brothers. I
17 believe he'll be joining us later this morning.
18 Jane DeLuca.

19 DR. JANE DELUCA: Here. Scott Grosse.

20 DR. SCOTT GROSS: Here.

21 DR. CYNTHIA POWELL: Kellie Kelm.

22 DR. KELLIE KELM: Here.

1 DR. CYNTHIA POWELL: Joan Scott.

2 JOAN SCOTT: Here.

3 DR. CYNTHIA POWELL: I'm here. Diana
4 Bianchi. I don't she's available.

5 DR. CYNTHIA POWELL: Annamarie Saarinen.
6 I don't think she was going to be available today.
7 Scott Shone.

8 DR. SCOTT SHONE: Here.

9 DR. CYNTHIA POWELL: Beth Tarini.
10 Catharine Riley.

11 DR. CATHARINE RILEY: Here.

12 DR. CYNTHIA POWELL: And now, we'll go
13 through those attending from the organizational
14 representative group. Robert Ostrander.

15 DR. ROBERT OSTRANDER: Here.

16 DR. CYNTHIA POWELL: Debra Freedenberg.

17 DR. DEBRA FREEDENBERG: Here.

18 DR. CYNTHIA POWELL: Mike Watson.

19 DR. MICHAEL WATSON: Here.

20 DR. CYNTHIA POWELL: Steven Ralston. Jed
21 Miller.

22 DR. JED MILLER: Here.

1 DR. CYNTHIA POWELL: Susan Tanksley.

2 MS. SUSAN TANKSKLEY: Here.

3 DR. CYNTHIA POWELL: Chris Kus.

4 DR. CHRISTOPHER KUS: Here.

5 DR. CYNTHIA POWELL: Jacqueline

6 Rychnovsky.

7 DR. JACQUELINE RYCHNOVSKY: Here. DR.

8 CYNTHIA POWELL: Jennifer Kwon. Jacob

9 Hogue.

10 DR. JACOB HOGUE: Here.

11 DR. CYNTHIA POWELL: Natasha Bonhomme.

12 MS. NATASHA BONHOMME: Here.

13 DR. CYNTHIA POWELL: Siobhan Dolan.

14 DR. SIOBHAN DOLAN: Here.

15 DR. CYNTHIA POWELL: Cate Walsh Vockley.

16 MS. CATE WALSH VOCKLEY: Here.

17 DR. CYNTHIA POWELL: Georgianne Arnold.

18 DR. GEORGIANNE ARNOLD: Here.

19 DR. CYNTHIA POWELL: All right. Now,

20 we'll look at the August minutes. The Committee

21 members received a draft of the August meeting

22 minutes to review prior to this meeting. No edits

1 were submitted. The Committee received the final
2 draft of the minutes prior to the meeting. Are
3 there any additions or corrects to the minutes
4 before we take a vote? Okay. None being heard,
5 we'll go through those available to vote on the
6 August minutes. Mei is not available. Susan
7 Berry.

8 DR. SUSAN BERRY: Approved.

9 DR. CYNTHIA POWELL: Jeff Brosco.

10 DR. JEFF BROSCO: I missed that. Are you
11 asking for a vote?

12 DR. CYNTHIA POWELL: Yes, state either
13 yes, no, or abstain in terms of approving the
14 August 2019 minutes.

15 DR. JEFF BROSCO: Okay. I abstain -- I
16 abstain, as I was not present.

17 DR. CYNTHIA POWELL: Kyle Brothers, I
18 don't believe is available yet. Jane DeLuca.

19 DR. CATHARINE RILEY: I'm sorry, this is
20 Catharine. Jane is trying to log in. She's
21 having difficulties.

22 DR. CYNTHIA POWELL: Okay. All right.

1 Scott Grosse.

2 DR. SCOTT GROSSE: Approve.

3 DR. CYNTHIA POWELL: Kellie Kelm.

4 DR. KELLIE KELM: Approve.

5 DR. CYNTHIA POWELL: Kamila Mistry.

6 DR. KAMILA MISTRY: Approve.

7 DR. CYNTHIA POWELL: I approve. Scott

8 Shone.

9 DR. SCOTT SHONE: Approve.

10 DR. CYNTHIA POWELL: And Joan Scott.

11 MS. JOAN SCOTT: Approve.

12 DR. CYNTHIA POWELL: Anyone on the
13 Committee who is available whose name I didn't
14 call? Okay. All right.

15 At the August meeting, I introduced new
16 organization representatives including Lieutenant
17 Colonel Hogue representing the Department of
18 Defense. Dr. Hogue is the Chief of Genetics at
19 Madigan Army Medical Center located on Joint Base
20 Lewis-McChord in Tacoma, Washington. Dr. Hogue
21 was not able to join us in August but is with us
22 on the webinar today, and we would like to welcome

1 Dr. Hogue. Thank you for serving.

2 Next, I wanted to provide an update on
3 the medical foods report, which the Committee
4 previously accepted. An informational copy was
5 sent to the Secretary. On September 9th, HRSA's
6 Acting Administrator sent a reply on behalf of
7 Health and Human Services thanking the Committee
8 for providing an informative summary of the
9 current landscape of medical foods in the United
10 States and outlining the challenges faced by
11 individuals living with inborn errors of
12 metabolism.

13 So, our meeting topics for today include
14 Data Interoperability in Newborn Screening, which
15 we started taking a look at at our last meeting
16 and then to continue with the review of the RUSP
17 Condition Nomination and Evidence Review Process,
18 specifically today to look at the Public Health
19 System Impact Assessment.

20 At this time, I would like to turn things
21 over to Joan Scott from HRSA.

22 MS. JOAN SCOTT: Good morning, everyone.

1 This is Joan Scott from HRSA, and I just wanted to
2 make a quick comment before Catharine got on the
3 line to do her DFO comments.

4 So, as you know, the legislative
5 authority for this Committee is set to expire on
6 September 30th. At that time, if the authorizing
7 legislation has not passed, Committee operations
8 will halt. However, operations for continuing the
9 work of the Committee are being considered. As
10 you know, the legislation -- current legislation
11 does provide for the option of establishing a
12 discretionary committee, and that is one of the
13 options that is being considered. So, just watch
14 the Committee website for information and all of
15 the future dates remain on the Committee's
16 website. They are tentative pending what will
17 happen, but just watch the Committee's website for
18 further information. Thank you, and now I'll turn
19 it over to Catharine.

20 DR. CATHARINE RILEY: Thank you, Joan.
21 We're just going to pause here for a minute while
22 we're trying to get the slides loaded so everyone

1 on the webinar can see them. So, while we're
2 loading the slides, I'll just go ahead and get
3 started. This is Catharine Riley. I'm the
4 Designated Federal Official for the Advisory
5 Committee on Heritable Disorders in Newborns and
6 Children. I first just want to say welcome to
7 everyone who is joining us on this webinar from
8 all across the US. We know there are folks
9 joining from different time zones, so especially
10 those on the west coast and those early time
11 zones, thank you for joining us early this
12 morning.

13 This Advisory Committee legislative
14 authority is found in the Newborn Screening Saves
15 Lives Reauthorization Act of 2014. This
16 legislation established the Committee and provides
17 the duties and scope of work for the Committee.
18 However, all community activities are governed by
19 the Federal Advisory Committee Act or FACA, which
20 sets the standards for the establishment,
21 utilization, and management of all Federal
22 Advisory Committees. As a Committee member on a

1 Federal Advisory Committee, you are subject to the
2 rules and regulations for special government
3 employees.

4 I also have standard reminders to the
5 Committee that I would like to go over. I wanted
6 to remind the Committee members that as a
7 Committee, you are advisory to the Secretary of
8 Health and Human Services, not the Congress. For
9 anyone associated with the Committee or due your
10 membership on the Committee, if you receive
11 inquiries about the Committee, please let Dr.
12 Powell and I know prior to committing to an
13 interview.

14 I also wanted to remind Committee members
15 that you must recuse yourself from participation
16 in all particular matters likely to affect the
17 financial interest of any organization with which
18 you serve as an officer, director, trustee, or
19 general partner, unless you are also an employee
20 of the organization, or unless you have received a
21 waiver from HHS authorizing you to participate.

22 When a vote is scheduled or an activity

1 is proposed and you have a question about a
2 potential conflict, please notify me immediately.

3 I'll pause here and see if any Committee
4 members have any questions in regard to conflict
5 of interest. Okay. Next slide please.

6 So all Committee meetings are open to the
7 public. If the public wishes to participate in
8 the discussion, the procedures for doing so are
9 published in the Federal Register Notice and are
10 announced at the meeting. So, for this meeting,
11 the request we were offered two options, an oral -
12 - provide oral comments or provide written
13 comments. We did receive two requests for oral
14 comments, so we'll share those later this morning,
15 and we did receive one written statement ahead of
16 time, and the Committee members were provided a
17 copy of that written statement prior to the
18 meeting.

19 Any further public participation will be
20 solely at the discretion of the Chair and myself
21 as DFO.

22 Any questions, again, from Committee

1 members before proceeding? Okay. Next slide.

2 I just wanted to, since we are on a
3 webinar, just go over some of the instructions and
4 to thank everyone for their patience this morning,
5 as we were dealing with some technical
6 difficulties, and we're continuing to work through
7 those. So, thank everyone for your patience.

8 For members of the public, the audio will
9 be coming through your computer speaker. So,
10 there is a call-in option, and you can listen
11 through a phone as well, and that number is listed
12 on the screen. But you should be able to hear
13 through your computer to the webinar.

14 For Committee members and organizational
15 representatives, your audio will be coming through
16 the phone line that you called in on, so if you
17 could please make sure you have your computer
18 speakers turned off, this will help when you are
19 providing comments or questions so there won't be
20 an echo.

21 I'm asking Committee members and
22 organizational representatives to please speak

1 clearly and remember to state your name first to
2 ensure proper recording for the Committee
3 transcript and minutes. If you are having any
4 issues with your phone line, you can press star
5 zero to reach the operator.

6 In order to facilitate the discussion,
7 please use the raise hand feature in the Adobe
8 Connect when you are wanting to make comments or
9 ask questions. At the top of your screen, you'll
10 see a little raise hand. I will see this, and as
11 soon as I have that noted, we'll make a list, and
12 I will clear that. So, if you see that cleared,
13 we know you haven't made a comment, we're just
14 trying to keep the list running. So, if it's
15 cleared, that means we've seen it and you're on
16 the list and your in the queue for providing a
17 comment or asking a question. If you're having
18 any trouble with that for Committee members, you
19 can E-mail me directly at Catharine.

20 And if you're having technical
21 difficulties or if the webinar pauses during it,
22 if you could try to close out and reopen the

1 webinar using a different browser, that can help.
2 If you're still having technical difficulties,
3 please refer to the contact information provided
4 in the registration confirmation E-mail that you
5 received, and they will be able to help
6 troubleshoot that.

7 So, with that, I am going to turn it back
8 over to Dr. Powell. Thank you.

9 DR. CYNTHIA POWELL: Thank you,
10 Catharine. At the August meeting, we heard an
11 excellent overview of Data Interoperability in
12 Newborn Screening. We heard about the differences
13 between data exchange, data interfacing, and data
14 interoperability. We also heard about some
15 aspects of newborn screening that could benefit
16 from the use of interoperability through databases
17 including specimen tracking, electronic orders and
18 reporting, which we will hear more about today,
19 hearing and critical congenital heart disease
20 screening, record and birth defect registries,
21 which we'll hear more about today, long-term
22 followup, pediatric specialty care, and

1 immunizations.

2 Today, we'll hear from two states, Texas
3 and Minnesota, about their experience implementing
4 electronic test ordering and automatic daily
5 electronic data transfers between vital records
6 and newborn screening. Brendan Reilly will share
7 the Texas experience and Amy Gaviglio will share
8 the Minnesota experience. We will hear from both
9 presenters and then open it up for questions and
10 discussion. We hope to hear from additional
11 states at future meetings.

12 I'd like to introduce our first speaker.
13 Brendan Reilly is a Program Specialist for the
14 Texas Department of State Health Services
15 Laboratory. He has over 18 years of experience
16 managing projects related to quality improvement,
17 process workflow, and informatics. He is co-Chair
18 of the Newborn Screening Technical Assistance and
19 Evaluation Program known as NewSTEPS Steering
20 Committee, co-Chair of the Newborn Screening
21 Health Information Technology Work Group, and
22 Moderator of the Newborn Screening Health

1 Information Technology Interoperability User
2 Group.

3 DR. CATHARINE REILLY: Brendan Reilly,
4 are you on the line? If you are, we're going to
5 give you a minute to respond. Operator, if
6 Brendan Reilly is on the line but doesn't have an
7 open line, can you please move him to an open
8 line?

9 DR. CYNTHIA POWELL: Due to some
10 technical challenges at the moment, I'm sorry,
11 Brendan, we're going to have Amy Gaviglio go
12 first. So, I'll introduce Amy.

13 Amy Gaviglio, a Certified Genetic
14 Counselor, worked for the Minnesota Department of
15 Health Newborn Screening Program for the past 12
16 years, where she oversaw followup and provided
17 guidance for informatics, education, ethical and
18 policy-related initiatives. Ms. Gaviglio is in
19 the process of transitioning to a new position
20 within the newborn screening community. She is a
21 member of the Committee's Education and Training
22 Workgroup and the Ad Hoc Workgroup on interpreting

1 newborn screening results. She also currently
2 serves as co-Chair of APHL's New Disorder Work
3 Group and is a member of APHL's Short-Term
4 Followup and Legal Legislative Issues in Newborn
5 Screening Work Group.

6 Amy, hopefully you're on, and you're
7 going to be talking about building connections to
8 improve outcome.

9 MS. AMY GAVIGLIO: Thank you, Dr. Powell.
10 Can you hear me?

11 DR. CYNTHIA POWELL: Yes, we can hear
12 you, Amy.

13 INTEROPERABILITY FOR NEWBORN SCREENING:
14 STATE EXPERIENCES

15 MS. AMY GAVIGLIO: Oh, perfect. Okay.
16 So, thank you too, Dr. Powell, as well as the
17 Committee for allowing me the opportunity today to
18 speak about how building data can actually really
19 help improve newborn screening outcomes. Next
20 slide, please.

21 So, I'd like to start with a quick
22 disclaimer that some of the work presented here

1 was completed during my tenure at the Minnesota
2 Department of Health. As Dr. Powell mentioned in
3 my bio, I'm currently in the process of
4 transitioning positions, so I'm no longer an MDH
5 employee. Next slide.

6 So, when talking about a rather broad and
7 somewhat conceptual topic like interoperability, I
8 like to start with a why and why might we as a
9 newborn screening community or why might a newborn
10 screening program want to take the time and effort
11 toward building more data connections. And the
12 answer to this really spans the entirety of the
13 newborn screening process. From the preanalytical
14 perspective, electronic connections can improve
15 upon the integrity of the data coming into the
16 program, which ultimately can improve upon the
17 result accuracy.

18 In addition, connections can aid in
19 providing a more accurate denominator within the
20 state, and this, of course, will help allow for
21 the assessment of refusals.

22 Analytically, having accurate demographic

1 information can help ensure that the appropriate
2 age or birth weight-based cutoffs are applied or
3 that low birth weight infants are screened per LBW
4 serial screening recommendation. This, of course,
5 not only aids in better screening but can also
6 ensure that delays don't occur while waiting for
7 correct demographic information.

8 Certainly, we think from a point-of-care
9 perspective, so [inaudible] and PCHD, electronic
10 connection really can be pivotal in greatly
11 improving the program's ability to receive and
12 monitor the screening results themselves.

13 In the post-analytical sphere, better
14 data connections may reduce reporting errors, they
15 can help staff locate infants who have actionable
16 newborn screening results, as well as assess the
17 long-term outcomes of families identified through
18 newborn screening in the hopes of being able to
19 answer the question of whether we are truly
20 meeting the mission of newborn screening.

21 For my time today, I will be focusing on
22 -- if you can do the next slide -- these two

1 components, so the accurate denominator -- next
2 slide -- as well as the assessment of outcomes,
3 and Brendan will cover some of the others in his
4 talk. Next slide, please.

5 So, a key tenant of newborn screening is
6 that every newborn should be given the opportunity
7 to have newborn screening. However, not
8 surprisingly, it can be rather difficult to see
9 that through if you do not have a way of knowing
10 how many births there are -- of having an accurate
11 denominator. And this is where connecting to
12 vital records can really come into play. So, by
13 matching specimens received to birth certificates
14 filed, one can better know who has and hasn't been
15 screened, follow up accordingly, and also monitor
16 refusal rates.

17 So, before talking more about how this
18 can work, I want to point out three areas of
19 consideration for creating this linkage. The
20 first is really the importance of understanding
21 the statutory requirements in each state regarding
22 birth certificate filing, particularly any

1 stipulations around required timing. So, how long
2 do birth attendants have to file the birth
3 certificate, and is this timing different for
4 midwifery or out-of-hospital births.

5 The second and somewhat related to the
6 first is to understand the limitations that may
7 still exist in linking to vital records, both in
8 terms of timing -- so, for example, if certain
9 populations take longer than a month or so to file
10 their birth certificates or if there are
11 populations that may still want to be screened,
12 but their home birth certificates may not be filed
13 for months, years, or maybe never, so it's
14 important to understand that these may still not
15 be captured by the linkage.

16 And really, both of these come together
17 for the last point, which is that really in order
18 for linking to vital records to truly help in
19 moving the mission of newborn screening, it really
20 needs to be done in a timeframe that allows
21 program intervention if a child is inadvertently
22 missed. Next slide.

1 So, how can this be achieved? So, this
2 slide illustrates the process that has been
3 utilized in the Minnesota program since August
4 2016. And this process starts with our Office of
5 Vital Records sending a daily file. You can just
6 kind of like tab through the next slide for the
7 animation. The Office of Vital Records sends a
8 daily file of birth certificates filed the
9 previous day. This is sent through our Internal
10 Exchange Hub and ends up in a .csv file on our
11 network. At this point, a Newborn Screening
12 Program staff person kind of manually goes, grabs
13 that csv file, and imports it into our LIMS, and
14 this happens each day. Next slide.

15 And again, if you just want to tab
16 through, thank you. So, once imported, a query is
17 run within our LIMS that looks to match the birth
18 certificate information with specimens received.
19 And so, based on some probabilistic matching
20 analysis that was done, we found that the four
21 criteria of infant's date of birth, infant's time
22 of birth, and mother's first and last name gave

1 the most automatic matches with the highest
2 accuracy. So, upon running that query, if a match
3 is obtained using that criteria -- those four
4 criteria points -- the birth certificate number
5 and any associated information is automatically
6 added to the patient's case within the LIMS. If a
7 match is not obtained, the remaining records are
8 then manually reviewed by program staff, who
9 deselect or select other demographic criteria to
10 try to determine if a match exists. For example,
11 time of birth -- that can often be off by one or
12 two minutes, so that may be preventing a match
13 from occurring. So, if you deselect that, you may
14 find a match.

15 Again, during this process, if a match is
16 determined, then a birth certificate number and
17 information can be added to the case at the click
18 of a button. If no match is obtained after about
19 five to seven days, there is no refusal paperwork,
20 or there has been no notification of a deceased
21 status, then followup can begin to determine why a
22 specimen has not yet been received. Next slide.

1 Using this process, we are able or the
2 Minnesota program is able to perform a match in
3 just over five days from date of birth and then,
4 of course, more shortly after the date the birth
5 certificate is filed. The significance of these
6 numbers is that this timeline allows the program
7 the potential to intervene if a child has been
8 missed before most symptoms might -- might occur.
9 This process also allows the program to capture a
10 number of different things, so number of screening
11 refusals, who has been born in this state,
12 transferred out but still ensuring that that
13 screen occurred, how many infants had specimens
14 that were lost and needed followup to get a new
15 specimen, as well as how many infants remained
16 unscreened even after multiple contacts. Next
17 slide.

18 In addition to connecting with vital
19 records, there is another opportunity for
20 obtaining a state-level denominator at least from
21 birth facilities with EMRs, and this is known as
22 Newborn Admission Notification Information or

1 NANI. So, this process connects to the birth
2 facility's EMR using an HLT ADT feed, which is a
3 different type of connection than what Brendan
4 will describe in his talk. In Minnesota's
5 implementation of this with our systems, four
6 specific ADT messages are received from birth
7 facilities. The first is called an AL1 message,
8 and this actually alerts the program that a child
9 has been born or admitted. This is then followed
10 by several other messages -- several A08 messages.
11 So, those messages update the patient's record as
12 information is added. For example, once the birth
13 weight is added, a new message would be sent with
14 parent contact information, et cetera. And then,
15 once the child is discharged, a third type of
16 message called an A03 is sent. A fourth type of
17 messages called an A31 is also very helpful,
18 particularly for getting the child's legal name,
19 as we found in many facilities that this is
20 actually not updated until after the child is
21 discharged. So, you can see that, you know, from
22 getting these four different messages types, one

1 can not only know when a child was born -- so,
2 again, kind of helping with that denominator --
3 but also can know if the child is still inpatient,
4 so in the hospital, and this can be really helpful
5 for followup staff as they are calling out results
6 to know kind of where the baby might be. However,
7 of course, just like kind of the issue with vital
8 records and actually even more so here, this will
9 not accurately account for out-of-hospital births.
10 Next slide.

11 All right. And then again, you can tab
12 through to the animation. Thank you. So, this is
13 what a NANI connection looks like. In this case,
14 we're starting with the birth facility and their
15 EMR where the HL7 ADT feed is set up to filter the
16 newborns, so we only want messages on individuals
17 less than 72 hours of age and then those -- it
18 will also send all of those subsequent messages.
19 These messages eventually end up going through the
20 Internal Exchange Hub again, and they are then
21 placed in a holding table in the LIMS.

22 Simultaneously or kind of shortly after

1 the specimen is collected at the birth facility,
2 couriered to the Public Health Lab, where upon
3 receipt, the bar code is scanned, a few
4 demographics entered, and then the message and the
5 specimen are matched together. Next slide,
6 please.

7 So, I think you will see somewhat of a
8 similar timeline in Brendan's talk as well, but
9 projects involving connecting to birth facilities
10 are really not for the faint of heart. It can
11 take quite a long time. Minnesota implementation
12 began in 2014 and concluded with all approximately
13 90 birth hospitals being connected in early 2017.

14 Two key points here I'd like to touch on
15 include in 2015 the declaration of this reporting
16 mechanism as a public health registry for the
17 purpose of meaningful use, now known as promoting
18 interoperability, and this really greatly helped
19 incentivizing hospitals to work with the program
20 on this project. And then the second point is
21 that, you know, much like any other project, once
22 implementation concludes, you really enter a new

1 phase of continuous monitoring to ensure that the
2 feeds continue to work, the demographics look the
3 way you expect them to look, and then adjusting
4 any work flows that you need to with this new
5 process. Next slide.

6 So, as Dr. Powell mentioned kind of in
7 her introduction, vital records and NANI, are just
8 two of many possible connections a program may
9 make in order to help improve outcome. Some of
10 these are internal connections. They're internal
11 in terms of interagency, as is the case for birth
12 defects. So, this connection can be really
13 important in helping programs ascertain missed
14 cases. That has been especially true to critical
15 congenital heart disease. But, they may also help
16 better understand co-morbidities present in
17 newborn screening conditions and maybe
18 considerations that need to be made around
19 screening in that population. So, an example of
20 this can be infants with Down syndrome who also
21 have congenital hypothyroidism.

22 Additionally, connecting to other

1 programs like WIC, children with special health
2 needs, or local public health can also aid in
3 followup, particularly ensuring access to care and
4 treatment.

5 Externally, there are opportunities for
6 connections as well, of course, so connections to
7 reference or clinical laboratories and
8 subspecialist EMRs have the great potential to
9 improve our ability to obtain followup information
10 both in the short term, but I think more
11 importantly in the long term to better ascertain
12 things like change in state or clinical status for
13 late-onset cases, the ability to be alerted to new
14 diagnostic or outcome information, or to, of
15 course, false-negative cases. Next slide.

16 So, I borrowed this slide -- this graphic
17 from the Office of the National Coordinator for
18 HIT, as I think it does a really great job of
19 reminding us of how this work has the potential to
20 not only aid in improved individual-level outcomes
21 but shows how data connections and
22 interoperability more broadly can impact the

1 population level by informing our understanding of
2 disease, by shaping the clinical guidelines, and
3 effecting public policy. This paradigm is, I
4 think, even more important in the world of newborn
5 screening in rare disease as really, I think, only
6 through more robust data connections and improved
7 data integrity will we be able to truly affect the
8 impact of newborn screening and inform new and
9 best practices. Next slide.

10 So, how do we proceed? How do we get
11 there? First, I think we must understand that
12 programs are being asked to do more things more
13 quickly with more complexity and really have
14 limited resources that are pulled in any number of
15 directions at any given time, and certainly -- and
16 I think you'll see this with Brendan's talk --
17 interoperability has the potential to help by
18 saving staff time and money and perhaps even
19 improving the newborn screening process and
20 system. But the catch 22 is that in order to make
21 it happen, you need the time and money upfront,
22 which ultimately means that the starting point for

1 each program kind of on their journey toward
2 interoperability is likely to be different and
3 really depend upon their own needs assessment, gap
4 analysis, and really ability to add this to their
5 priorities. Next slide.

6 You can tab through, thank you. So, I
7 wanted to end with this quote from Karen DeSalvo
8 at the Department of Health and Human Services,
9 because I think this really describes exactly what
10 our next steps and goals should be in newborn
11 screening, and that is to create a road map with
12 programs to achieve interoperability while really
13 keeping the why -- the ultimate mission of newborn
14 screening in mind. But, before we all embark on
15 this journey, programs will need help packing
16 their bags, so to speak, so you can tab through
17 again a little bit. So, in terms of what help is
18 needed, of course, nationally coordinated efforts
19 in providing technical assistance, training
20 fellowships, standards and national initiatives,
21 as well as, of course, funding. So, next slide,
22 please.

1 So, with that, I would like to
2 acknowledge the great team at the Minnesota
3 Department of Health and thank you again for the
4 chance to speak today, and I will pass it over to
5 Brendan.

6 DR. CATHARINE RILEY: Hi, this is
7 Catharine Riley, DFO. We wanted to ensure --
8 Brendan Reilly, are you on the line? Okay. We
9 are having technical difficulties. We know
10 Brendan Reilly is on the line, but we can't hear
11 him. So, Brendan, if you can hear us, we cannot
12 hear you at this point. If you could push star
13 zero and let the operator know that you need an
14 open line, please.

15 DR. CYNTHIA POWELL: Hi, this is Cindy
16 Powell. Thank you very much, Amy. I think as we
17 work out our technical difficulty being able to
18 hear Brendan Reilly's presentation, we'll go ahead
19 and take questions from first Committee members
20 and then organizational representatives. So,
21 operator, if you can please open the lines for
22 Committee members and organizational reps. We'll

1 have Committee members ask their questions first,
2 and as a reminder, please use the raise hand
3 feature in Adobe Connect when you would like to
4 make a comment or ask a question, and as always,
5 please state your first and last name each time
6 you ask a question or provide comment in order to
7 ensure proper recording.

8 MR. BRENDAN REILLY: Hi everybody. This
9 is Brendan Reilly. I think I may have finally
10 gotten access.

11 DR. CYNTHIA POWELL: All right. Before
12 we lose you, Brendan, let's hold off on questions
13 then, and we'll go ahead and Brenda, if you can
14 give your presentation on newborn screening in
15 Texas.

16 MR. BRENDAN REILLY: Yes.

17 DR. CATHARINE RILEY: Brendan, I'm sorry,
18 this is Catharine, and for the record, I wanted to
19 note we do have Kyle Brothers and Jane DeLuca,
20 Committee members, who have joined the webinar.
21 Thank you.

22 MR. BRENDAN REILLY: All right. Thank

1 you, guys, and I apologize for the difficulties.

2 DR. CYNTHIA POWELL: Oh, no problem.

3 MR. BRENDAN REILLY: It's interesting to
4 have a presentation on technology when technology
5 can be a little difficult at times. So, with that
6 said, let me move forward with the presentation,
7 and thank you for your patience with me,
8 everybody.

9 So, I am going to speak on some
10 interoperability efforts that we have taken in
11 Texas over the last ten years and to set that up,
12 I wanted to review this slide that was presented
13 by Ashleigh Ragsdale at the last Committee meeting
14 to kind of give an overview and this slide gives
15 an overview of the different activities that we do
16 in newborn screening programs for dried blood spot
17 testing and followup. The functionality in blue
18 is activities that are -- that we use -- that we
19 currently do and use our information systems to
20 manage, and those activities in orange are some of
21 those activities that we could see as future
22 functionality with the proper interoperability

1 infrastructure and design, and, you know, I -- Amy
2 already was able to give a presentation on some of
3 that functionality and so that's just the context
4 in which I want to talk about what we're doing for
5 electronic test ordering and reporting and so if
6 you see the green circles here, this is the
7 functionality that I'm focusing on. This is an
8 interoperability functionality, but it's something
9 that we've been doing here in Texas for a while
10 and working on pretty -- pretty extensively.

11 Generally, over the last ten years when
12 the community has discussed interoperability, this
13 is what we're talking about -- specifically
14 electronically test ordering and reporting. So, I
15 kind of want to -- the idea is to set this up as
16 kind of a historical perspective on that with the
17 understanding that there's all kinds of other
18 functionality out there that we're capable of
19 achieving.

20 So, I am going to talk about electronic
21 test orders. Traditionally in newborn screening
22 programs, these are received on a demographic form

1 that comes along with the blood spot specimen, and
2 all the information is handwritten onto the form.
3 We're limited to the number of fields that can be
4 collected and fit on that 4-1/2 by 11 form or
5 whatever it is -- whatever the size is. And
6 generally, the information is hand transcribed
7 onto it, received by data entry operators, and
8 hand entered into a system separately where you
9 could have all sorts of transcription issues.

10 So, the way that this works in electronic
11 order is obviously this is going to be sent
12 electronically, but it's a little bit more
13 intricate than that in general. So, usually the
14 order for the newborn screening is placed in the
15 electronic medical record of the hospital system
16 by the physician or by a standing order or
17 something like that, and then there's a couple of
18 ways that that information in most cases is
19 actually transmitted to a different information
20 system within the hospital. So, the order message
21 may be transmitted to their laboratory information
22 system or as Amy was describing with the NANI

1 system, an admission message can be sent to a web
2 application or to potentially a laboratory
3 information system. And then, laboratory --
4 generally, laboratory staff or phlebotomists will
5 access that laboratory information system for a
6 newborn screening specimen and transmit a separate
7 order that will go out to the public health
8 laboratory through integration engines. So, an
9 integration engine takes the information, puts it
10 in a proper format, and sends it on to the public
11 health laboratory.

12 So, that's a nuance to it, but it's an
13 important nuance when we start looking at the
14 actual data flow and how things usually operate
15 for reference laboratory testing in a public
16 health laboratory, and I'll come back to that in a
17 little bit.

18 On the other end of things, when we're
19 talking about electronic results, you know,
20 traditionally and historically, we're sending --
21 generating a physical result report with all the
22 results for newborn screening sample that are

1 mailed to a provider and then somebody on that end
2 will take all that information and transcribe it
3 to the hospital information system -- the EMR
4 through a similar pathway. And here, you can see
5 in the electronic result, it's electronically
6 transmitted. It shows up into the system without
7 any transcription and with different coding that
8 you know, the system can use to automatically flag
9 things and things of that nature.

10 So, a little history. Many of you may
11 have already seen some of this background for
12 Texas, but this is an updated version. So, we
13 initiated our HL7 solution and implementing a web
14 application with our vendor way back in 2008, and
15 then we immediately started on four different
16 projects or implementation with various hospital
17 systems, and ultimately, through these four
18 projects, we implemented bidirectional HL7
19 messaging with four partners -- that equates to
20 forty-one facilities. This was prior to the
21 implementation of the PHII NLM implementations
22 guides, so the Public Health Informatics Institute

1 worked with the National Library of Medicine and,
2 I believe, under the eye of this Committee, to
3 develop an implementation guide for how to
4 structure HL7 orders and results. So, that said,
5 this guidance came out after our solution was put
6 into place. Our solution was on HL7 Version 2.3,
7 and this guidance follows HL7 Version 2.5. and
8 without going into the details, you'll just have
9 to trust me that there's pretty significant
10 differences between those two HL7 standards.

11 So, over the next few years, you can
12 imagine, there are lots of things going on and
13 lots of competing projects in the newborn
14 screening program to expansion of screening tests,
15 upgrade of information systems, you know, RFPs for
16 services, all sort of competing issues essentially
17 slowed down the process. Then, it came down the
18 road that the implementation guides -- the PHII
19 NLM implementation guide, there was an effort led
20 to actually align this -- these implementation
21 guides with the HL7 standardized laboratory orders
22 interface and laboratory results interface guides,

1 and knowing that that was coming, we, you know,
2 started developing implementation of our
3 capability to receive those inbound orders, which
4 we did and went live with in 2017, and our partner
5 in this case was OZ Systems, who is providing
6 these services to about fifteen facilities for us
7 right now and currently, that is just an inbound
8 orders interface.

9 And so, following that, we also revised
10 our electronic reporting to match the Version 2.5
11 implementation guides and followed the same
12 standards that other states are working on as
13 well, and we just recently here in this last
14 August implemented with transitioning one of our
15 original partners over to this new system, and
16 they have gone live -- they have been live with us
17 for about a month. And we've also now initiated
18 four additional projects to transition existing
19 facilities and also add new facilities and add the
20 results piece with -- with OZ Systems. So, a lot
21 of extensive effort going on in that space and
22 ultimately our goal is that once this is done,

1 we'll have somewhere around eighty facilities that
2 are participating in our bidirectional interface.

3 So, what does that look like in terms of
4 successes? The obvious goal here is to try to
5 achieve quality improvement and efficiency
6 improvement on both sides of things. So, we were
7 able to track some data -- some hard data for
8 improvement to our system. But keep in mind
9 there's efficiencies gained on both sides, as I
10 kind of review some of these.

11 So, ultimately at our current rate, we're
12 receiving about 130,000 electronic orders per year
13 either through an automated electronic message or
14 through web application that we have available.
15 It only accounts for 17 percent of our samples,
16 which doesn't sound much, but with our volume,
17 that's 130,000 samples a year. And on the
18 reporting end of things, we're reporting about
19 117,000 results via electronic HL7 message.

20 So, what does that equate to in terms of
21 some program efficiencies? For the order entry
22 capability, we've determined and estimated that it

1 takes about two minutes per sample to manually key
2 in all of the information, and when we extrapolate
3 that out to the number of FTE per year, we're
4 estimating that's close to three FTEs per year,
5 and that's at our current rate, and we -- we're
6 working on solutions to further advance that with
7 some of the additional projects that we're working
8 on now.

9 In terms of data accuracy, we were able
10 to do a small study, where we actually received
11 specimens with not handwritten information but a
12 label that was generated out of the system that
13 was transmitting the electronic order. So, the
14 label information in this case, we knew exactly
15 matched what was received in the electronic order,
16 and in this case, we were only receiving the
17 electronic order into our test system during a
18 validation process, so -- and the information on
19 the label was being entered by our data entry
20 operators. So, we were able to compare the two
21 data sets to look for differences in the data
22 sets. Now, it's important to note that there are

1 some allowed differences from what's on the form
2 by our data entry operators, so that could account
3 for some of these differences, and I'd also add
4 that we have a very extensive quality assurance
5 process for our data entry operators and an
6 experienced team that really does a huge amount of
7 work to get this information entered. But the
8 best team in the world is still being asked to do
9 this in a crazy fast amount of time, you know, and
10 I think this data kind of backs up that, you know,
11 even their most robust efforts to get this data
12 entered accurately is not going to match the
13 efficiency of an electronic data transfer.

14 In terms of data completeness, we're also
15 able to measure hospital systems that implemented
16 electronic ordering and track the number of
17 missing key data elements before and after
18 implementation and I think this pretty well
19 outlines some of the improvement that we saw for
20 some of these key data elements being included,
21 which again represents a really huge timesaving in
22 terms of getting the sample run and not spending

1 time and resources following up to try to get that
2 key information and insuring that our testing is
3 based on the most robust data quality.

4 And in this example I'm showing -- this
5 is actually an HL7 provider -- and we can -- you
6 can see here the percent of samples where we
7 receive all the key data elements that we're
8 requesting as opposed to the state average for
9 that -- for that measure.

10 So, before I move on, that's just a
11 reminder that's just a few of the benefits that we
12 see on the public health side of the program, but
13 please keep in mind that, you know, a lot of these
14 efficiencies are also occurring on the hospital
15 side and, you know, so we're not tracking all of
16 that.

17 That said, there are challenges, as Amy
18 mentioned, and my technological difficulties today
19 kind of demonstrate, that these things aren't
20 always as easy as hey, just set it up and get it
21 going. And one of the most common questions I get
22 in terms of the challenges of advancing electronic

1 testing or reporting is how do we get and keep
2 healthcare providers engaged in this process? And
3 my response to that is generally that it's not my
4 belief that hospitals and healthcare providers in
5 general are not interested in this, they are
6 certainly interested in it, and I feel like they,
7 you know, there's a big push from hospital systems
8 to gain these efficiencies. But the problem is
9 that it's not always quite as easy an effort once
10 they start looking into it.

11 And so, let me talk about some of the
12 deficiencies of the model that we've implemented
13 here in Texas or at least some of the difficulties
14 that we run into.

15 So, here's another slide that Ashleigh
16 presented in her great presentation last month
17 that kind of lays out the ideal perspective, at
18 least in my mind, for how a hospital would like to
19 see interoperability work, and you can see in this
20 case, the hospital has one connection to an
21 agency. We're in the laboratory up here in this
22 little left-hand corner of the laboratory box, but

1 there are all kinds of different agencies
2 requesting information from hospitals and trying
3 to -- to share that information from the hospital.
4 So, this would be the ideal solution. Here in
5 Texas, our solution looks a little bit more like
6 this. So, we're setting up direct interfaces with
7 each of those hospitals and then if the hospitals
8 want to communicate with the other parts of the
9 agency, then they would be required to set up a
10 separate connection with each of those. So,
11 that's -- that's one deficiency that we -- that we
12 have, and it's also a hurdle that the hospitals
13 have to jump each time they have to work on
14 getting that one more connection set up.

15 So, another issue that we've run into
16 quite a few times when we're working with the
17 hospitals is going back to the slide for how the
18 test order works. So, this is a standard, I
19 think, you know, this is my understanding of how a
20 standard reference laboratory test order works at
21 a hospital for something like, I don't know, a
22 glucose panel or -- or something of that nature.

1 So, in the EMR, the healthcare provider will place
2 the test order, and the information that's passed
3 to their laboratory information system is the
4 information on that patient and specifics as to
5 what's being ordered. So, I'm ordering a glucose
6 panel. Now, obviously, most hospitals will
7 probably be able to run this in-house, but if it's
8 a test ordered that needs to be sent out to a
9 reference laboratory, they'll send that
10 information out of their laboratory information
11 system. It will include that patient information
12 and test order information that they received from
13 the EMR, and then they'll add the specimen level
14 information for what's collected, and it will be
15 sent out to that reference laboratory.

16 So, how it works a little bit differently
17 in newborn screening, and this is significant to
18 note that newborn screening is different from a
19 standard reference lab test order. So, in newborn
20 screening, the EMR will again send the patient --
21 or in this case, it's actually not a patient, it's
22 a newborn -- and their test order information to

1 the LIS, and then the LIS system is being asked to
2 then transmit that newborn information -- which
3 I'll reiterate is different from, you know, my
4 personal patient information if I'm having a test
5 order placed -- it will send the test order and
6 specimen information, but we're -- newborn
7 screening programs are also asking for all the
8 mother's information and that magical post-
9 discharge provider information or who the PCP will
10 be for that provider for that newborn after
11 they've been discharged from the hospital. So,
12 all this information generally is not available in
13 the laboratory information system, and the
14 providers -- the partners will have to scramble to
15 figure out how to do custom coding to get all that
16 information into the message going to the
17 laboratory as the majority of LIS and EMR vendors
18 don't necessarily have specific solutions just for
19 newborn screening. They'll have a standard
20 reference lab solution and then additional work
21 will have to be done to get the newborn screening
22 information in.

1 A few other pain points, just touching on
2 them quickly -- and again, this is a non-
3 exhaustive list of some of the challenges to this
4 -- generally, we're finding that hospitals are
5 having some issues with receiving multiple
6 disorder results for a single panel order. So, if
7 you think about it this way, they place an order
8 for a newborn screening panel, and when we send
9 results back, we're sending results back for a
10 list of orders for amino acid disorders, fatty
11 acid disorders, CAH, et cetera, and so this is
12 something that we've been kind of working through
13 with the hospital to figure out how is best to do
14 it, and unfortunately, different hospitals want to
15 do it different ways.

16 So, another thing -- and this is a little
17 bit difficult to describe -- is some of the
18 variation in what I would call adherence to
19 standards. We've been very strict about our
20 approach in exactly following the standard, but
21 that said, we do leave our solution open to where
22 we follow the standard, but if our partners don't

1 want to follow it to the tee, we leave some
2 flexibility for them. But, that said, as we're --
3 we are running into situations where we're asking
4 partners to -- or where our partners are asking to
5 negotiate and change our standard ordering and do
6 things differently just for them that don't follow
7 the standard. And to date, we've resisted that
8 and are not doing so, and generally there are
9 solutions in there, but at least my impression is
10 that often, you know, they are negotiating with
11 the reference laboratory that really just wants
12 their business and is going to, you know, make
13 accommodations and then ultimately we're not all
14 following standards again. So, that's -- that's
15 kind of one option that we're running into.

16 A couple other issues is that we do
17 require a specimen labeling solution and sometimes
18 this gives the hospital systems just as much of a
19 headache as generating the electronic test order,
20 and, as I mentioned before, the EMR and LIS
21 vendors for the hospital systems are not really
22 focused on newborn screening, and they don't have

1 specific solutions readily available, at least in
2 my experience.

3 And then, of course, there is healthcare
4 system priorities. They have a lot of projects
5 going on and getting a newborn screening project
6 on the board can be -- can take some time and can
7 be a little bit difficult if it's not a really
8 easy off-the-shelf solution that they can purchase
9 from their vendor.

10 So, that's all that I have. I wanted to
11 leave that with some of those challenges, because
12 I think there is definitely some opportunity to
13 overcome some of these challenges as a community
14 and there are certainly some benefits that we can
15 gain from this type of solution, and I think I've
16 probably gone way over my time, and that's all the
17 presentation I have. So, thank you very much for
18 your time.

19 DR. CYNTHIA POWELL: Thank you, Brendan.
20 I will now open this up for discussion, so
21 operator, please open the lines for Committee
22 members and organizational representatives, and

1 remember to use Adobe Connect raise your hand if
2 you have a comment or question, and please state
3 your first and last name.

4 OPERATOR: Thank you. We will now begin
5 the question and answer session. If you would
6 like to ask a question, please press star one and
7 record your first and last name clearly when
8 prompted. Your name is required to introduce your
9 question. To withdraw your question, you may
10 press star two. One moment please for our first
11 question.

12 DR. CYNTHIA POWELL: So, I'll start this
13 off. This is Cindy Powell from the Committee. I
14 have a question for Amy. Amy, do you have an
15 estimate as to the FTE required to take care of --
16 of, you know, linking with the NANI program?

17 MS. AMY GAVIGLIO: In terms of the
18 implementation of it or --

19 DR. CYNTHIA POWELL: More of a day-to-day
20 -- the day-to-day running of it.

21 MS. AMY GAVIGLIO: So, I mean, for NANI,
22 that's really just, you know, coming over and it

1 gets linked upon our -- our regular data entry.
2 So, it's really no different than normal. In
3 fact, hopefully as time goes on and the workflow
4 becomes more ingrained, I think it will ultimately
5 save data entry time.

6 In terms of the matching to vital
7 records, that really doesn't take very long each
8 day. I would say it takes one person maybe a half
9 hour to kind of go through the least daily, if
10 that. So, it's a pretty small requirement in
11 terms of FTE.

12 DR. CYNTHIA POWELL: Okay, thank you.
13 And we'll take the first question from Scott
14 Grosse.

15 DR. SCOTT GROSSE: Thank you. Brendan,
16 great presentation. I have a question. How many
17 of the data entry operators do you have in Texas?

18 MR. BRENDAN REILLY: I -- I don't know
19 the exact number off the top of my head. But just
20 kind of looking at the room, my guess is somewhere
21 around fifteen-ish. So, in that ballpark, maybe
22 fifteen to twenty data entry operators.

1 DR. SCOTT GROSSE: Okay. Thank you.

2 DR. CYNTHIA POWELL: And Kyle Brothers.

3 DR. KYLE BROTHERS: Yes, can you hear me?

4 DR. CYNTHIA POWELL: Yes.

5 DR. KYLE BROTHERS: Great. Actually, I
6 just wanted to confirm that my audio was working.
7 I don't have a question except just to say I
8 thought this was -- both were very interesting
9 presentations, and I really appreciate you both
10 bringing this to us. I think this is the type of
11 thing, you know, we need a lot more of across both
12 the public health system and also the hospital and
13 clinical system. So, it's just really fascinating
14 to see how you work these things out.

15 DR. CYNTHIA POWELL: Scott Shone.

16 DR. SCOTT SHONE: This is Scott Shone.

17 So, I don't with discretion if Brendan or Amy or
18 both in terms of your implementation processes.

19 So, who -- can you expand on who ends up owning

20 the implementation and then ultimately the ongoing
21 maintenance? Is it, you know, does this --

22 because, you know, my experience has been there's

1 often a lot of well, this is IT, no this is
2 program, this is department. Can you talk a
3 little bit about, you know, for those of us who
4 are coming up later and now beginning to implement
5 each, you know, that question is obviously for
6 Brendan, but in general maybe even the link to
7 vital records. Who -- who -- who in the
8 stakeholders -- but more importantly, who is going
9 to own this? Is it like most projects where the
10 program has to drive a lot of this?

11 MR. BRENDAN REILLY: So, I'll -- I'll
12 answer first, Amy. So, I would say that we have a
13 really good partnership with our application
14 support department as far as this goes in our
15 efforts. But it is primarily, and I would say a
16 90 percent driven project from the program side of
17 things. That said, you know, it's also important
18 to remember that each one of these projects is a
19 partnership project with a hospital system, and
20 every one, in my experience, of these projects
21 takes on a little bit different flavor in terms of
22 who's the ownership of the project. We've tried

1 to set this up to where we set up a project to
2 implement our solution, and then we work with
3 partners as a consultant in their project. But we
4 have had some partners that essentially have just
5 said hey can we start a project and you run it.
6 The best solution is when the hospital system has
7 a project manager and project setup. They have
8 your, you know, your specifications, and then we
9 work to -- to help them out with it. I think that
10 may have answered your question, hopefully.

11 DR. SCOTT SHONE: No, that's great,
12 Brendan. Thank you. I appreciate it.

13 MS. AMY GAVIGLIO: This is Amy. I
14 completely agree with what Brendan said. I do
15 think a big part of the ownership comes from the
16 program, and it's often initiated by the program
17 because it's really their ask or your ask, and it
18 then does become vitally important that you -- you
19 do build your team. So, working with your -- your
20 interface team within the agency, having a project
21 manager on that side, having what you would call
22 like a business end project manager, so someone

1 from the program really kind of driving that. And
2 really, from the maintenance perspective, I do
3 think a lot of the ownership does come from the
4 program as well, because you're often the first to
5 notice when something happens having that process
6 in place and having a project manager kind of
7 throughout the entirety post implementation as
8 well is really important.

9 DR. CYNTHIA POWELL: Any questions from
10 organizational representatives?

11 I have another question. This is for
12 Brendan. I'm sorry if I missed this, Brendan, but
13 since you're a two-screen state, how does it work
14 with the second screen?

15 MR. BRENDAN REILLY: Right. So, we do
16 receive second screens, so when I talk about the
17 number of healthcare facilities, you know, each of
18 our interfaces has anywhere from ten to fifteen
19 healthcare facilities participating in it, and in
20 -- in at least a couple of those instances, they
21 do have their outreach clinics participating in
22 that same interface. So, they'll use the same

1 information system as their other hospital and
2 they'll transmit information through -- through
3 the same interface and information system setup.

4 So, essentially when we work on an
5 individual project, we verify that we can receive
6 test orders from each of the participating
7 facilities. Each facility will have identifiers
8 that are specific to the facility and specific EHR
9 system so we can piece those out in the electronic
10 messaging and route things back accordingly in the
11 results.

12 DR. CYNTHIA POWELL: Okay. And this is
13 Cindy Powell again. So, currently there's
14 probably two or three large electronic health
15 record providers around the country, without
16 naming names, you know, is it -- I would imagine
17 that the hospitals that are, you know, utilizing
18 this system have different providers for their
19 health -- electronic health records. Is that more
20 challenging? Are there, you know, again without
21 naming names, are there some that are more
22 receptive to designing things specific for the

1 newborn screening system?

2 MR. BRENDAN REILLY: Well, so I think
3 that's a, you know, that's -- let me kind of
4 approach that in -- in two ways. So, first you're
5 correct. There are two or three main EMR vendors,
6 but there's quite a few laboratory information
7 system vendors out there, and there's really two
8 models for how these electronic -- how the systems
9 work in the hospital. Sometimes they'll have an
10 integrated system to where they'll have an EMR and
11 an LIS through the same vendor, and everything
12 works together really sweetly and nicely. But
13 there are a lot of cases, and many of the cases
14 where we deal with where you'll have one EMR
15 vendor and separate LIS vendor. So -- so, that
16 said, our approach historically in promoting these
17 solutions and working on them is to work with --
18 directly with the hospital system and in working
19 with those hospital systems, we have had at least
20 one of the main EMR vendors that, you know, at the
21 request of the hospital system, modified the way
22 their system worked. This is an integrated

1 system, so they had that flexibility, but they
2 modified the standard way that their system works
3 for all their hospital systems to where it could
4 grab that mother's information and send it over.

5 But, that said, the model has been
6 working with the hospital system and so I'm -- I
7 personally, at least, am trying to redesign that
8 approach and reach out more directly to some of
9 the EMR and LIS vendors to, you know, see what we
10 can do to advance them developing a newborn
11 screening-specific solution that would work for
12 any of their clients.

13 DR. CYNTHIA POWELL: Okay, thank you.

14 Is there anyone on the line who had a
15 question or comment from the Committee members or
16 organizational representatives in case we missed
17 your raised hand? Okay. And before we move on, I
18 just wanted to give Kyle Brothers and Jane DeLuca
19 a chance to vote on the minutes that we did at the
20 beginning of this meeting. So, we were just
21 asking for those members who reviewed those
22 minutes, if you voted to approve, not approve, or

1 abstain. So, Kyle Brothers.

2 DR. KYLE BROTHERS: This is Kyle
3 Brothers. I approve.

4 DR. CYNTHIA POWELL: And Jane DeLuca.

5 DR. JANE DELUCA: I approve.

6 DR. CYNTHIA POWELL: Okay, thank you.
7 All right.

8 PUBLIC COMMENTS

9 Now, we are going to move on to our
10 public comments session, and in the announcement
11 for this meeting, there was an open call for oral
12 and written public comments. Dean Suhr submitted
13 a written comment, which has been distributed to
14 the Committee members and will be included with
15 the minutes of this meeting. Two people submitted
16 requests to provide oral comments today -- Rebecca
17 Abbott from the March of Dimes is up first.
18 Rebecca, are you on the line?

19 MS. REBECCA ABBOTT: I am. Can you hear
20 me?

21 DR. CYNTHIA POWELL: Yes.

22 MS. REBECCA ABBOTT: Wonderful. Thank

1 you so much. Good morning, Dr. Powell and members
2 of the Advisory Committee. Thank you for the
3 opportunity to provide comments today. My name is
4 Becky Abbott, and I am the Deputy Director of
5 Federal Affairs for Public Health and March of
6 Dimes. As I have shared in previous public
7 comments, I had the honor of leading a group of
8 more than a dozen public health provider and
9 patient advocacy organizations dedicated to
10 advancing our nation's newborn screening system
11 through federal advocacy. Our coalition's current
12 efforts are focused on reauthorization of the
13 Newborn Screening Saves Lives Act, which, as we
14 heard earlier in the meeting, expires in just six
15 days.

16 During the public comment portion of the
17 August meeting, I shared that the House of
18 Representatives passed its version of the Newborn
19 Screening Saves Lives Act in late July. The House
20 bill increases authorized funding for newborn
21 screening programs at CDC and HRSA, makes
22 refinements to language authorizing activities at

1 CDC, NIH, and HRSA, and commissions the National
2 Academy of Science Reports on the future of
3 newborn screening. The House bill will also
4 extend the authority for this Advisory Committee
5 for another five years.

6 We are grateful to our sponsors,
7 Representative Lucille Roybal-Allard, Mike
8 Simpson, Catherine Clark, and Jamie Herrera Butler
9 for their leadership on this reauthorization
10 effort.

11 While the House bill moved quickly
12 through the legislative process, the Senate has
13 been slower to act. Senator Maggie Hassan and
14 Cory Gardner introduced legislation in July, and
15 since then, our coalition has been working with
16 them and staff on the Senate Health Committee on
17 refinements to the bill and language to address
18 concerns from other lawmakers.

19 Our coalition continues to pursue all
20 legislative options to reauthorize the Newborn
21 Screening Saves Lives Act as soon as possible. If
22 you have questions about the reauthorization

1 effort or our coalition, please feel free to reach
2 out. I can be contacted at rabbott, A-B-B-O-T-T,
3 at March of Dimes dot org
4 (rabbott@marchofdimes.org.) Thank you again to
5 Dr. Powell and members of the Committee for the
6 opportunity to provide this update.

7 DR. CYNTHIA POWELL: Thank you, Ms.
8 Abbott.

9 Next is Thomas Childs from the Tennessee
10 Department of Health. We are not able to see you
11 on the line. Are you -- are you there, Mr.
12 Childs? If you're -- we don't hear you. So, you
13 press star zero to talk to the operator and ask
14 the -- ask for your line to be open.

15 All right. I think it's best if we move
16 on for the sake of keeping on time. So, we'll go
17 to the next thing, which will be bringing up the
18 Power Point slides. We're going to move on to the
19 RUSP Condition Nomination and Evidence Review
20 Process. Next slide.

21

22 RUSP CONDITION NOMINATION AND EVIDENCE

1 REVIEW PROCESS

2 DR. CYNTHIA POWELL: As you may remember,
3 the Committee has undertaken a review of our
4 Condition Nomination and Evidence Review and
5 Decision-Making Processes. We are focusing our
6 review on four main areas: the nomination process,
7 the systematic evidence-based review process, the
8 decision matrix and decision-making process, and a
9 possible review of current conditions on the RUSP.
10 Next slide.

11 In April, the Committee discussed case
12 definitions at the start of the review process and
13 the need to standardize terminology regarding
14 primary and secondary targets and incidental
15 findings, prespecifying outcomes, and the use of
16 intermediate outcomes such as biomarkers, range of
17 treatment that should be included, grading the
18 evidence, and identifying and synthesizing
19 unpublished evidence and data.

20 In August, the Committee discussed
21 systematic evidence-based review process focusing
22 on the cost adjustments, population-level

1 modeling, public health system assessment, and
2 assessing values.

3 Today, we will continue to focus our
4 discussion on the systematic evidence-based review
5 process, in particular, how the Committee assesses
6 the impact of adding new conditions on the public
7 health system. Next slide.

8 Per the Newborn Screening Saves Lives
9 Reauthorization Act, assessing the impact of the
10 public health system is part of the evidence
11 review process. The assessment of state newborn
12 screening programs is intended to evaluate the
13 entire integrated system needed for implementation
14 of comprehensive newborn screening, not just the
15 ability to provide laboratory testing. The
16 assessment includes authority, laboratory testing,
17 interpretation, reporting, tracking, and systems
18 for assurance of diagnostic evaluations, and
19 evaluation of outcome. The overarching goal is to
20 inform the Committee about the feasibility of
21 screening, state readiness to implement new
22 condition screening, and describe the cost of

1 implementing a new condition screening. Next
2 slide.

3 I wanted to discuss -- sort of focus our
4 discussion today about assessing the impact of
5 adding new conditions on the public health system
6 by revisiting the current decision matrix used by
7 the Committee. There are two categories that
8 relate to the impact on the public health system:
9 readiness and feasibility. Although overlapping
10 this between issues of feasibility and readiness,
11 the Advisory Committee does not fully distinguish
12 these concepts when evaluating capability for
13 screening. Instead, this framework helps to
14 assure that all aspects of implementation are
15 considered.

16 I wanted to take this opportunity to
17 review the key features of each so we can consider
18 these features as we think about how we may refine
19 our process. Next slide.

20 The key features of feasibility are the
21 availability of valid and reliable screening tests
22 with adequate throughput to meet the needs of

1 population-based deployment, the availability of
2 systems to ensure quality implementation of the
3 screening test that include quality reagents and
4 data-reporting system, the availability of
5 quality-control and proficiency-testing samples,
6 adequate training programs for new technologies,
7 an established approach for diagnostic
8 confirmation available to newborn screening
9 programs, and an established approach to long-term
10 followup, including treatment available to newborn
11 screening programs. Next slide.

12 Key features are readiness are the
13 availability of resources for screening,
14 diagnostic confirmation, and long-term followup
15 including financial resources, availability of
16 laboratory equipment, data systems, and expertise,
17 access to specialty care and treatment, systems
18 for data collection, and authorization for
19 screening. Next slide.

20 The current approach is to assess public
21 health impact from a population and systems
22 perspective. Population modeling is a

1 quantitative approach used to compare what happens
2 if cases are identified through newborn screening
3 settings versus usual case identification. This
4 approach uses data from the evidence review.
5 Assessing cost is one component of assessing the
6 impact on the public health system. The other is
7 determining state readiness to implement new
8 condition screening. The results of these three
9 approaches are summarized as part of the evidence
10 review process. Next slide.

11 Currently, two surveys are used to gather
12 information about feasibility of screening and
13 state readiness. An initial survey of state
14 newborn screening programs is administered as an
15 online survey. Newborn screening programs are
16 encouraged to work with their partners to answer
17 questions. A followup survey is then used to
18 interview newborn screening programs that have a
19 mandate to screen, have begun or have plans to
20 begin pilot screening for the condition, or have
21 completed a budget analysis for screening for the
22 condition. Next slide.

1 I wanted to provide a summary of past
2 Public Health System Impact Assessments that have
3 been done. The first one for Pompe disease was a
4 preliminary one and sort of a pilot for doing
5 this. That was then followed by MPS1, XALD, and
6 SMA, all included in assessment of the impact on
7 the public health system. As you can see, the
8 number of states that participate has increased
9 somewhat over time, and for the last three
10 conditions, there was fairly good participation by
11 states. Next slide.

12 The Committee has encouraged the
13 community to provide feedback on this process. We
14 reserved time at previous meetings to gather
15 feedback. The workgroups have discussed and
16 provided feedback, and we've hosted a meeting of
17 experts in the field of evidence-based review to
18 get additional input. I wanted to recap some of
19 the feedback we received regarding the assessment
20 of the impact on the public health system.

21 Some of the feedback included that
22 surveys may not capture the difficulties of

1 implementing a new condition. The overall
2 estimates of time it would take to implement a
3 condition -- for example, giving a range of one to
4 three years -- could be more informative. Surveys
5 may not account for possible impacts on primary
6 care physicians, specialists, genetic counselors,
7 and others. Public health programs may not know
8 the answers for all of the questions. Others that
9 contribute into the newborn screening system may
10 need to be engaged. Newborn screening programs
11 may not know at the time of the survey what a
12 long-term followup plan for given conditions would
13 look like, and survey questions are hypothetical
14 and responses are subjective.

15 And the surveys are approved and it's a
16 fairly detailed process to go through approval,
17 and they are not modifiable for each condition.
18 Next slide.

19 The feedback the Committee received was
20 used to help revise the survey. Revisions were
21 completed in 2018. The Committee has not sent a
22 condition forward for an evidence review since the

1 surveys were revised, so they have not yet been
2 utilized. The Committee received a lot of very
3 helpful feedback. However, we don't have time
4 today to go through all of the changes. However,
5 I did want to provide you with a couple of
6 examples of how the feedback we received informed
7 revisions to the survey.

8 On this slide, I've highlighted some of
9 the feedback we received from one of the
10 Committee's workgroups. Thank you, workgroups,
11 for all of your efforts in this.

12 Some of the gaps or questions the
13 workgroup had was how accurate or valid are the
14 answers, that more choices are needed, or do we
15 just ask specific numbers, what are things that
16 may inhibit you from reaching that goal, and I've
17 condensed these into two main areas for
18 consideration.

19 Estimation of the time needed for
20 implementation activity and capturing the barriers
21 and challenges to implementing screening. Next
22 slide.

1 So, to look at how revisions to the
2 survey can help better estimate the time it takes
3 to implement screening for a new condition. Next
4 slide.

5 So, in this instance, the question was
6 revised and additional points in the process were
7 added, so a more robust assessment of time needed
8 to implement specific activities can be assessed.
9 For example, the possible responses use to be 1
10 year or less, 1 to 3 years, or 3 or more years.
11 In order to get more specific and accurate data,
12 the response options are now 12 months or less, 13
13 to 24 months, 25 to 36 months, 37 to 48 months, or
14 more than 48 months. Next slide.

15 Additionally, activities through the
16 newborn screening system were further delineated
17 to provide a more robust estimate of how much time
18 each component of the process takes in addition to
19 an estimate of the overall time it takes to
20 implement a new condition, and you can see some
21 revised list of activities were added to the
22 survey on the right -- the updated survey. Next

1 slide.

2 So, we'll now look at how revisions to
3 the survey can help better assess challenges faced
4 by state newborn screening programs. Next slide.

5 Questions and response options were
6 revised to improve the responses. Offering
7 descriptions of what each category or response
8 option means and offering open-ended questions
9 that allow states to share more information about
10 the factors that can impede facilitating the
11 adoption of screening. Next slide.

12 So, through the review of the review
13 processes, we have an opportunity to refine the
14 process. Today, I'd like to discuss the current
15 process to assess the impact on public health. I
16 posed three overarching questions to guide the
17 discussion.

18 Does the current Public Health System
19 Impact Assessment approach of surveys and followup
20 interviews capture all the information the
21 Committee needs? What additional information is
22 needed? Are there new or additional methods the

1 evidence review process ought to include to gather
2 information on the public health impact? Which
3 stakeholders are not represented in the current
4 process? How can all of the stakeholders
5 contribute to the information?

6 All right. Now, we're going to open this
7 up for Q&A and Committee discussion. Operator,
8 please open the lines for Committee members and
9 organizational representatives. Committee members
10 will discuss first followed by organizational
11 reps. As a reminder, please use the raise hand
12 feature in Adobe Connect, and please state your
13 first and last name each time you ask a question
14 or provide comments.

15 First, we have Jeff Brosco.

16 DR. JEFF BROSCO: Thank you so much,
17 Cindy. So, I think actually the changes that
18 we've made over the last couple of years to the
19 survey are -- are terrific. But, it does still
20 bump off against limitations that we really can
21 only go as far as what people answering the survey
22 know at the time, and Scott Shone may want to

1 weight into this as well. But we've done in
2 Florida over the last couple of, I guess,
3 conditions is we've actually asked someone to look
4 at a lot of the questions about public health
5 impact and actually interview, for example,
6 subspecialists or primary care docs and try to
7 say, well, what really would be the impact because
8 we, as the state newborn screening program,
9 couldn't just figure this out easily ourselves.
10 There's a lot more information beyond that.

11 So, maybe one idea for us to consider is
12 at least for three or four states, kind of dig in
13 a little deeper and see what kind of resources are
14 available, and maybe that might help us get a
15 broader -- actually a deeper view of what the
16 public health impact is and maybe Scott wants to
17 add something.

18 DR. CYNTHIA POWELL: Scott, any comments?

19 DR. SCOTT SHONE: Sure. This is Scott
20 Shone. I didn't want to speak until I was called
21 on. Thanks, Jeff. So, yeah. I agree, I mean, in
22 full disclosure, you know, I was working with --

1 during my time with RTI, I was working with
2 Florida on what Jeff was talking about, and it was
3 sort of like a life evidence review of the public
4 health system in Florida where there was effort
5 put into seeking out the broader stakeholders from
6 Medicaid to the short- and long-term followup
7 community to, you know, all the different
8 stakeholders that you mentioned during -- during
9 your presentation to get and share, you know, that
10 the impact was on sharing the -- the goal was to
11 share the information with the stakeholders and
12 then solicit interviews to gather what their view
13 of the impact was and then have diversity across
14 the entire state of Florida. And I do think that
15 the outcomes of those were pretty impactful in
16 terms of understanding what's going to be the
17 impact of these on their system. And so, I agree
18 with Jeff. It goes to if you give this to one
19 individual in the state, it's the challenge on
20 them to then spread that, and that's -- that's
21 incredibly hard in light of everything else that's
22 going on. So, I think that while -- while we're

1 talking about the survey itself, the process, but
2 also I'd like to throw out there again, and this
3 is hard, you know, during the webinar, sitting
4 next to Beth or sitting next to others and sort of
5 talking on the sideline, what are we -- what, as a
6 Committee, are we going to do with this? Are we
7 actually going to use the outcomes on the
8 condition data to inform our decision? Or is this
9 just information gathering to share so that the
10 programs are aware that if a condition is added
11 despite it being, you know, despite some
12 challenges identified in the Public Health System
13 Impact Assessment, it's still going to be
14 recommended, but here's what you should look out
15 for when you go forward. So, I guess my challenge
16 -- my additional question would be I do think -- I
17 guess my answer to some of your questions are I do
18 think there's a lot of information -- new
19 information gathered. I think that if you combine
20 this with, you know, the Readiness Tool that was
21 presented to the Committee at a prior meeting,
22 there are ample ways to collect the data. What's

1 going to drive this is if we can -- we can better
2 -- better improve the process of collecting the
3 data and then states need to realize that we're
4 actually going to use it when we make a decision,
5 or we need to decide we're going to rather.

6 DR. CYNTHIA POWELL: Thank you. Joan
7 Scott.

8 MS. JOAN SCOTT: This is Joan from HRSA.
9 This is sort of a followup question both to Jeff
10 and to Scott. So, the -- the survey is an attempt
11 to gather information where the Committee can
12 think about broadly across the nation what the --
13 what it may take for states to implement. But
14 based on the process that you were describing
15 then, was it also a tool to help initiate
16 conversations within the state and that it could
17 potentially play an important implementation tool
18 should the condition eventually get added to the -
19 - to the RUSP?

20 DR. JEFF BROSCO: This is Jeff Brosco.
21 Is it okay for me to respond?

22 DR. CYNTHIA POWELL: Yes, go ahead, Jeff.

1 DR. JEFF BROSCO: Okay. So, great
2 question. Just a little background then. So, the
3 way it works in Florida is when the -- when a
4 condition is added to the RUSP, Florida has one
5 year for its committee, Genetics and Newborn
6 Screening Advisory Committee, to decide whether to
7 add or not, and what we realized was that we were
8 making that decision as a committee, and it would
9 be better made if we had more information. And
10 so, as Scott said, he described the kinds of
11 things that he did, and I think you're right Joan,
12 that just in the process of gathering that
13 information, it started to create, you know, okay
14 we know now we need to work with a neurologist,
15 for example, and we, as the Title 5 agency, would
16 say okay, we're going to have to do training for
17 our subspecialists, because they haven't done this
18 before or whatever those sorts of things are to
19 actually implement the condition. It was (a)
20 helpful to get information, so we, as a state,
21 knew really how much resources we would need. It
22 was also very useful, for example, for our

1 advocates who wanted to go to the legislature and
2 say we want to start newborn screening for this
3 condition, and we know it's going to require this
4 much funds. So, it was helpful in those ways as
5 well that it really laid out what it would take to
6 implement.

7 DR. CYNTHIA POWELL: Any other questions
8 or comments either by Committee members or
9 organizational representatives? Kyle Brothers.

10 DR. KYLE BROTHERS: Yes, this is Kyle
11 Brothers. As a relatively new member of the
12 Committee, I just wanted to ask about the -- the
13 opportunity to do sort of qualitative data
14 gathering. Scott suggested sort of doing some
15 case studies maybe with individual state programs.
16 It sounds to me, and also from what Jeff said,
17 that that would be really productive to do that,
18 and I agree that some of the information that
19 would be most useful is not necessarily a number
20 of months, but actually having folks on the ground
21 saying well, did you think about this, did you
22 think about this, so I was just hoping for some

1 ideas or some context about whether those types of
2 activities -- whether it's possible to build those
3 types of activities into this process and having
4 a, you know, we know we're going to do a focus
5 group with the state newborn screening program or
6 some other type of approach.

7 MS. JOAN SCOTT: Kyle. This is Joan
8 Scott, HRSA. Kyle, are you thinking about
9 something in addition to what the current process
10 is, which is the survey to all the states? But
11 there's also for those few states who are already
12 implementing or have -- have pilot projects to
13 screen for the condition under consideration, the
14 process is to actually go in and have a more
15 qualitative discussion with those states and not
16 just rely on the survey because we assume to have
17 a little more experience in states who are not
18 currently having any activities in the area. So -
19 - but are you thinking about something beyond
20 that? Maybe to extend that to states who have no
21 -- who are not doing any kind of implementation
22 activities?

1 DR. KYLE BROTHERS: I don't think -- this
2 is Kyle again. Maybe I hadn't differentiated that
3 far. So, I guess I don't understand the details
4 of that part. Who -- what -- how does that
5 conversation occur? Is that sort of through, you
6 know, through HRSA or who -- who has that
7 conversation? Do they come to the Committee? How
8 does that work?

9 DR. CYNTHIA POWELL: Alex, do you want to
10 respond to that? Operator, is Alex Kemper's line
11 open?

12 DR. ALEX KEMPER: Alex Kemper's line is
13 probably open, but he was sitting on mute. So, I
14 mean, help me understand exactly what, you know,
15 where you want me to go with that in terms of, you
16 know, how our process works.

17 DR. KYLE BROTHERS: Yeah, I guess, this
18 is Kyle, I was just wondering -- I didn't really
19 understand that part of it, and so I was hoping to
20 understand what you do already as a way to think
21 about whether something else should be done.

22 DR. ALEX KEMPER: Yeah, uh-huh. But, I

1 mean, getting back to your question about sort of
2 the qualitative part around what it takes for the
3 newborn screening programs to get going. So, you
4 know, we have this two-stage survey that we do in
5 partnership with APHL. APHL really leads it. So,
6 the first one is sort of a -- a -- goes out to
7 newborn screening programs overall to assess their
8 ability to do things, and then we do do a deeper
9 dive with the newborn screening programs that have
10 already begun to do the screenings so that we can
11 understand some of the issues that you brought up
12 in terms of, you know, what's, you know, what
13 would be needed and that kind of thing.

14 But, my thought on this, and I think this
15 gets to your question as well -- as well as
16 thinking about usefulness of this process for the
17 Advisory Committee is that there's some
18 generalizable things that -- that are related to
19 adopting a new newborn screening test regardless
20 of what the particular condition is. And then
21 there are things that are unique to each specific
22 condition in terms of new technology and that kind

1 of thing or the presence of late-onset disease or
2 diagnostic, you know, typical diagnostic
3 confirmation and so forth. And so, one of the
4 things that we've been talking a lot about as a
5 group is doing some work to be able to better
6 describe the -- the common issues and the issues
7 that are faced each time a newborn screening test
8 is added and then be able to focus in on the
9 incremental stuff. So, I think I completely agree
10 with what you said, Kyle, in terms of making sure
11 that we describe everything that's done, and I --
12 or everything that would be needed to adopt a new
13 newborn screening test. I think that the work
14 that APHL has done to refine the survey, as Cindy
15 talked about earlier, I think it's going to be
16 helpful. And as we think about how we're going to
17 use this in the future doing a better job of
18 having sort of the commonality things described
19 ahead of time will be useful. Does that -- does
20 that answer your question?

21 DR. KYLE BROTHERS: Yeah. If I can ask
22 one clarifying question as well. When you -- for

1 this deep dive that you talked about with the
2 programs that are already implementing as a pilot
3 project, does that deep dive involve just the
4 laboratory people or also sort of the genetic
5 counselors on the ground and other folks who might
6 have a view on what the implications are for
7 introducing that condition?

8 DR. ALEX KEMPER: Yeah, you know, it's --
9 I would love to be able to see that expanded look.
10 We've really been focused on the kinds of things
11 that happen within the newborn screening program
12 and how it influences them. But I would say we
13 have kind of a -- I'm going to use the qualitative
14 term, and I know that I'm using it wrong, so I'm
15 going to ask for your forgiveness ahead of time --
16 but this kind of, you know, snowball process where
17 we try to identify what the big problems are and
18 talk to relevant people, and we have these
19 technical expert panel calls as well. But we're -
20 - we're limited in terms of how much we can do
21 when we do these deep dives within the newborn
22 screening program, and some of that has to do with

1 time as well. But your point is well taken, and I
2 think that we should go back into group and think
3 about how we can expand and think about the things
4 that happen outside of the newborn screening
5 program.

6 DR. KYLE BROTHERS: That's really
7 helpful. Thank you, Alex.

8 DR. CYNTHIA POWELL: Jeff Brosco, do you
9 have a comment?

10 DR. JEFF BROSCO: No, Alex answered it,
11 as usual.

12 DR. ALEX KEMPER: Yeah, well, you know,
13 and I just -- I didn't mention, and K.K. just
14 texted me about this as well to be clear, too,
15 that as we do the survey, we make sure that we
16 find out who gave input into it to, you know, for
17 the written parts in terms of whether it was, you
18 know, the person who just works within the newborn
19 screening program versus other key members,
20 because as they fill this out, they're supposed to
21 have a, you know, engage a bunch of people.

22 DR. CYNTHIA POWELL: Yeah, this is Cindy

1 -- Cindy Powell from the Committee. I agree. I
2 mean, this -- it takes time, you know, I mean I
3 was impressed by some of the information that, you
4 know, goes with the survey -- the new survey, that
5 it's estimated that on average, it will take
6 states about ten hours to complete the survey, and
7 I think that's just maybe on the minimum side of
8 things, so it's certainly something that is time
9 consuming, extremely important, and something
10 where we really want to get as much feedback as
11 possible from as many different stakeholders as
12 possible and, you know, I think there's a
13 perception out there -- real or just, you know,
14 perceived -- but that maybe, you know, not
15 everyone has input into -- into the process. You
16 know, we certainly are limited. The Evidence-
17 based Review Committee, you know, is under the
18 time constraint of nine months but just for folks
19 to think about kind of, you know, other ways and,
20 you know, as a clinician, they should actually
21 focus more on the clinician's viewpoint. But
22 certainly there are others out there -- the

1 public, families, things like that -- that we also
2 have to consider.

3 Any other comments? I think that's it.

4 Okay. All right. So, I think we'll finish a
5 little bit early. Just a reminder, please check
6 the Committee's website for updates about the
7 Committee status. Before adjourning, I want to
8 wish everyone a happy Newborn Screening Awareness
9 Month. You celebrate that, hopefully, in all of
10 your states, and unless there's any other
11 announcements, I will officially adjourn the
12 meeting. Thank you, everyone.

13 [Whereupon, the meeting was adjourned.]

14 [Off the record at 11:27 a.m.]

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