

U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES
 HUMAN RESOURCES AND SERVICES ADMINISTRATION
 DISCRETIONARY ADVISORY COMMITTEE ON HERITABLE
 DISORDERS IN NEWBORNS AND CHILDREN

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MEETING

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FRIDAY
 SEPTEMBER 12, 2014

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The Meeting convened via webinar,
 at 9:00 a.m., Joseph Bocchini, Chairman,
 presiding.

PRESENT

JOSEPH BOCCHINI, Chairman, MD
 DEBORAH GOLANT BADAWI, MD
 DON BAILEY, PhD, MEd
 NATASHA F. BONHOMME
 JEFFREY BOTKIN, MD, MPH
 COLEEN A. BOYLE, PhD
 FREDERICK M. CHEN, MD, MPH, FAAFP
 SIOBHAN DOLAN, MD, MPH
 DENISE DOUGHERTY, PhD
 CAROL GREENE, MD
 CHARLES F. HOMER, MD, MPH,
 KELLIE B. KELM, PhD
 FRED LOREY, PhD *
 DIETRICH MATERN, MD
 STEPHEN McDONOUGH, MD
 MICHAEL LU, MD, MPH
 MELISSA PARISI, MD, PhD
 NANCY ROSE, MD
 DEBI SARKAR, MPH
 SUSAN TANKSLEY, PhD

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BETH TARINI, MD, FAAP
ALEXIS THOMPSON, MD, MPH
CATE WALSH VOCKLEY, CGC
MICHAEL WATSON, PhD, FACMG
CATHERINE WICKLUND, CGC
ANDREA WILLIAMS *

* Present via Teleconference

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

2 10:56 a.m.

3 CHAIR BOCCHINI: All right, let's
4 call the meeting to order. We've been able to
5 get all the lines open, and we'll go ahead and
6 call the meeting to order. All right. Able to
7 hear? Okay.

8 Good morning, everyone. Welcome to
9 the second day of our September 2014
10 Discretionary Advisory Committee on Heritable
11 Disorders in Newborns and Children meeting, and
12 thank you all for being here the second day.

13 First item of business is
14 attendance. Call the roll.

15 (Roll Call)

16 CHAIR BOCCHINI: So, we have another
17 full agenda today, and we're going to start this
18 morning with the report from the Laboratory
19 Procedures and Standards Subcommittee. They're
20 going to provide an update and some draft
21 recommendations for timely newborn screening
22 on the project that they've been working

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1 through. Over to you, Kellie.

2 DR. KELM: So, thank you for giving
3 us a very generous amount of time this morning
4 to go over what we've been working on since this
5 whole process started about a year ago. So,
6 Susan and I are going to talk about what we've
7 been doing, and propose some recommendations.

8 So, the slides that we have here
9 have changed somewhat since --- compared to the
10 ones that you have in the briefing book. We had
11 a lot of great discussion last night in our
12 Subcommittee meeting and a lot of changes
13 happened, especially to the revised
14 recommendations that we're going to be
15 presenting today.

16 The purpose of what we've been
17 working on is to report on best practices to
18 alleviate the gaps and identify barriers to
19 timely newborn screening and assess whether
20 current goals for timely specimen collection
21 and transit and testing are appropriate for the
22 current newborn screening system.

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1 So, if you recall in January at the
2 Committee meeting, the Advisory Committee
3 recommended the following time frames related
4 to newborn screening. And a lot of these came
5 from the 2005 report that has been on the
6 Committee website for over eight years.

7 So, initial newborn specimens
8 should be collected at 24 to 48 hours of life.
9 Newborn screening specimens should be received
10 at the laboratory within 24 hours of
11 collection. Newborn screen results for
12 time-critical conditions should be available
13 within five days of life, and all newborn
14 screening results should be available within
15 five days of collection.

16 So, our Subcommittee was tasked
17 with the following six items. First, to outline
18 the newborn screening system in order to inform
19 the rest of the items, to investigate existing
20 gaps and barriers in the
21 newborn screening systems, to identify best
22 practices to achieving these goals, to develop

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1 a list of critical conditions that require
2 urgent follow-up, review the recommendations
3 in light of new technologies, and suggestion
4 revisions, if needed.

5 So, in order to meet these tasks we
6 convened a steering work group made up of the
7 following Subcommittee members, Stan
8 Berberich, Dieter Matern, Michelle Caggana,
9 Mei Baker, George Dizikes, Bill Slimak, Debi,
10 Tina, Susan, myself, Ed McCabe from March of
11 Dimes, and several staff from APHL who've been
12 fantastic. This whole group has put in
13 --- we've had calls every other week in
14 addition to some of the other work, in addition
15 to the calls that we've been doing on a regular
16 basis, so we want to extend our thanks to this
17 whole team for putting in a lot of time and
18 effort on the work that we've done so far, and
19 I'm sure the work that's going to be ongoing.

20 So, as I said we developed --- we
21 had biweekly calls and more, and we started by
22 developing an outline of the system, had a

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1 discussion guide, and then using this
2 discussion guide work group members started by
3 holding focus groups at two regional
4 collaborative meetings, and that was sort of
5 the start for what wound up being a survey that
6 we used for the states.

7 So, working with APHL they
8 conducted a survey of the states. And as I said,
9 we used the focus group results and common
10 themes to guide the development of the survey
11 questions and the answer choices.

12 We also had discussions on critical
13 conditions with several groups, and we'll do a
14 little bit more discussion of what SIMD has been
15 working on, as well. And we've been having calls
16 with expert groups in the field of
17 endocrinology, pulmonology, hematology, and
18 immunology to capture their thoughts on
19 critical conditions. And we're still in the
20 process of working with the Joint Commission
21 and American Hospital Association to work on
22 our partners in the hospitals that are actually

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1 working collection and shipping, and Dr. Dolan
2 will actually give us a little bit of flavor at
3 the end of our talk on what the March of Dimes
4 has been working on, which I think is
5 complementary to what we've been working on.

6 So, as I said, the first thing that
7 we wanted to do was to outline the system. And
8 in the upper lefthand corner what this diagram
9 shows is that there are many parts of the
10 newborn screening system. And it's important to
11 involve all of those in the system. And, of
12 course, the baby is in the middle. We're doing
13 all of this for the baby. So, in the lower
14 right-hand corner, this diagram will be --- we
15 talked about really changing it and we just
16 didn't have a chance before today's meeting,
17 but it shows a little bit more of the linear
18 --- somewhat linear process that's happening
19 starting with parent provider education, and
20 then the testing that happens, you know, after
21 the infant is born from specimen collection,
22 transport, receipt at the lab, testing,

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1 results, verification, reporting, and then,
2 obviously, all of the follow-up that happens.
3 And overarching all of this is the constant
4 quality improvement that's happening on every
5 step of this process.

6 The first thing I'm going to talk
7 about is our work in developing the list of
8 critical conditions that require urgent
9 follow-up. So, in terms of hemoglobinopathies
10 we worked with HRSA to reach out to the experts
11 that were utilized in the case definitions
12 project previously. And at this time, the
13 consensus within that group of experts was that
14 their conditions do not require urgent
15 follow-up, so they're not critical.

16 The endocrinologists we talked to
17 last week similarly were the endocrinologists
18 we had used previously in the case definitions
19 project, and their decision or recommendation
20 was that CAH was considered time critical. They
21 would like the results within five to seven
22 days. And CH is time sensitive, which means that

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1 although these are not time critical conditions
2 that need to be performed immediately, that all
3 newborn screening for all these conditions is
4 time sensitive and needs to be done as soon as
5 possible. And these results they would like to
6 have available within seven to fourteen days.

7 CS, we're also using experts
8 utilized in the case definitions project.
9 There's been a lot of communication by email,
10 and we're planning on having a discussion with
11 them next week.

12 And the last one I'm going to hit on
13 is the metabolic conditions. So, we in our
14 Subcommittee yesterday, Sue Berry came and gave
15 a great presentation on their work. So, SIMD had
16 during a meeting this spring, there was
17 interest from clinicians to work themselves on
18 outlining what they considered the critical
19 list of conditions, so that --- because they
20 often work with the Public Health system, and
21 they felt that that would also be useful. So,
22 it wound up luckily working at a beautiful time

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1 for us to be able to leverage the work that they
2 were doing in their group.

3 So, they completed --- the work
4 group that they had completed a position
5 statement and that's been provided for us. And
6 I wanted to let you know their definition of a
7 critical condition is presented at the top, so
8 it's condition on the RUSP in which acute
9 symptoms or potentially irreversible damage
10 could develop in the first week of life, and for
11 which early recognition and treatment can
12 reduce risk of morbidity and mortality.

13 And here is the list of critical
14 conditions from our primary, the list of
15 primary conditions on the RUSP. There are also
16 several critical conditions that are on the
17 secondary --- a secondary sort of list on the
18 RUSP that we didn't capture here but we,
19 obviously, had the information from SIMD and
20 we'll with their permission include it in the
21 work that we're doing in our report.

22 The position statement further

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1 includes other details on, you know, what they
2 recommend in terms of maintaining appropriate
3 standards of collection. It's important to have
4 presumptive positive results as soon as
5 possible with immediate referral for
6 appropriate evaluation and management.

7 These conditions can present with
8 potentially lethal crisis in the first hours or
9 days of life, and here are some quotes that
10 we've pulled from their position statement that
11 we felt were important to still draft. It is not
12 possible even the most ideal system to have
13 results of newborn screening available within
14 --- for clinical presentation of all affected
15 babies, and some babies will present even
16 before its proper to collect the newborn
17 screening sample or specimen.

18 And the clinicians must include
19 inborn error metabolism and the differential
20 diagnosis of an ill newborn. And, finally, be
21 aware of clinical variability. Clinical
22 response may depend on the analyte level,

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1 analyte patterns and ratio of analytes, and
2 there's heterogeneity in the severity of
3 conditions in the spectrum of clinical
4 manifestations. Each condition listed has a
5 significant risk of catastrophic presentation
6 in the first week of life though many babies
7 with a critical condition may be asymptomatic
8 in the first weeks of life. And some babies with
9 conditions on the RUSP that are not included in
10 the critical conditions list may still present
11 in the first week of life.

12 Now I'm going to pass this along to
13 Susan, and she's going to talk about the survey
14 of states that APHL helped us to ---

15 DR. TANKSLEY: Good morning. So as
16 Kellie mentioned, our first approach to
17 gathering data was to go to the regional
18 collaboratives. And some focus groups were held
19 at those two regional collaborative meetings,
20 and information was gathered from that. And we
21 used that information to help develop the
22 survey questions.

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1 We wanted to get --- our goal in
2 gathering information was to try to gather
3 information from every state in the nation. It
4 was very important that we received input. We
5 wanted to know what are the specific gaps, what
6 are the specific barriers that you face, what
7 are the things you've done to improve
8 timeliness for collection, for screening, for
9 transit.

10 So, a survey instrument was
11 developed by APHL and with the work group's
12 assistance. It consisted of 31 questions. There
13 were three different sections of the survey.
14 The first focused on communication between the
15 states and birthing facilities. The second
16 focused on the newborn screening training
17 program, and the four recommendations related
18 to timeliness, so gathering, the gaps, the
19 barriers, and the best practices. And then the
20 third section focused on new technology, new
21 tests, and their impact on timeliness because
22 that was something else that the work group was

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1 to assess.

2 Are very happy to report that we had
3 tremendous success in gathering information
4 from all the states. And there were three emails
5 sent out to every state, one went to the Public
6 Health Lab Director, one went to the Newborn
7 Screening Lab Director, and one went to the
8 Follow-Up Coordinator. And that was a way to try
9 to insure that we would --- every state at least
10 knew that this survey was out there to be
11 fielded.

12 There were two different versions
13 of the survey. There was a lab version and a
14 follow-up version. The states had the option of
15 submitting both or submitting a singular one
16 for both. We did ask that if only one survey was
17 to be sent back that the Lab Director survey be
18 sent in, and that's because it included some
19 quantitative data requests; whereas, the
20 follow-up one only include the qualitative
21 ones.

22 So, we had 62 surveys submitted, 47

1 of those utilized the Lab Director version, 15
2 used the Follow-Up Coordinator version, and
3 in total that represented all 50 states and
4 Puerto Rico. So, we were extremely pleased to
5 have gathered information from all of the
6 states. The survey was open from July 8th to the
7 31st.

8 All right. So, first we'll talk
9 about the first part of the survey, which
10 focused on communication between state newborn
11 screening programs and birthing facilities.
12 So, what came out in the survey was that all
13 newborn screening programs provide feedback to
14 individual birthing facilities. Some of the
15 feedback includes unsatisfactory specimens,
16 transit time, completion of essential
17 information, and the age at specimen
18 collection. That feedback may be provided
19 monthly, quarterly, or as needed.

20 Technical assistance or training is
21 provided the birthing facilities by 50 of the
22 51 programs and it's typically upon request or

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1 upon recognition of an issue that they've been
2 monitoring.

3 Then a question was asked trying to
4 determine if there's a mechanism to note if all
5 babies in the state are actually screened or
6 not. So, 30 of the states have a mechanism, and
7 some of those mechanisms include matching the
8 newborn screening specimen to vital records or
9 birth certificates. That may happen daily,
10 weekly, or monthly. Some of the states have
11 newborn screening specimen card kit numbers
12 submitted with the birth certificates which
13 links them. I think that was an issue that had
14 come before this Committee a few years ago. So,
15 for the states that aren't able to have this
16 sort of linkage, some of the barriers were that
17 there isn't this linkage between newborn
18 screening records and vital statistics, so the
19 inability to link with vital statistics.

20 One of the states noted a failure to
21 link directly to Amish populations, to other
22 home deliveries, and babies born out of state.

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1 The availability of birth certificate data at
2 the time of screening is an issue, and also some
3 states noted that there was no way to capture
4 parent refusal.

5 All right. So, moving on now to
6 survey data in the second part of the survey.
7 This is where --- the first thing we wanted to
8 do, and we asked essentially the same questions
9 for every recommendation. So, we asked
10 basically what is your current status, so how
11 well do you meet the current recommendation? We
12 asked what are your gaps and barriers? And we
13 asked what are your best practices? We also
14 asked what are the three most important things
15 that you think could be done to improve
16 timeliness for that particular recommendation?

17 So, the first recommendation is
18 initial newborn screening specimens should be
19 collected at 24 to 48 hours of life. Each --- to
20 orient you with these, each of the bars
21 represents a newborn screening program, so you
22 can see the spectrum runs from 11 percent to

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1 98.3 percent that meet this recommendation
2 currently, with the median at 82.2 percent. So,
3 this is being met pretty well right now.

4 So, which factors impacted? So, you
5 have the full survey with the responses
6 analyzed in your briefing book, so we're just
7 summarizing the data today. But if you haven't
8 already looked at that, you can look at the
9 details.

10 The states were also asked to rank
11 the impact level for each of the barriers from
12 a major impact down to no impact.

13 The factors that newborn screening
14 programs rated as having a major impact on their
15 ability to meet the goal, so compliance with
16 collection from premature and sick infants was
17 the highest at 23.5 percent as a major impact.
18 Transfer of newborn before the specimen is
19 collected, release of newborn prior to 24 hours
20 of life, and high turnover of staff performing
21 dry blood spot collection.

22 Now, I should note at this point if

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1 you recall who we sent the surveys to, the
2 surveys were sent to the state newborn
3 screening program, so this is information from
4 the perspective of the state newborn screening
5 program. And we weren't able in this time frame
6 to survey the birthing facilities themselves;
7 though I know that some of these states have
8 actually contacted birthing facilities and
9 received input such as this.

10 Other gaps and barriers that were
11 noted, midwifery centers and out of hospital
12 birth, lack of education to submitters and
13 parents due to low staffing, high turnover at
14 birthing facilities, and state regulations
15 that allow collection at different times than
16 the 24 to 48 hours.

17 Some of the best practices, so
18 between --- this is a compilation of what's
19 currently being done, what could be done. And
20 they matched for the most part. So, many states
21 were already doing the things that were being
22 recognized as the most important things that

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1 could be done.

2 So, providing education and
3 outreach to individuals involved in newborn
4 screening processes, so this is formal
5 education, provider education, the whole
6 gamut. Monitoring performance and providing
7 feedback and technical assistance to birthing
8 facilities, which as I noted in the very first
9 slide that we presented that that's already
10 being done by all states. And to make
11 legislative changes or revise state
12 regulations to match recommendations and
13 provide regulatory --- these are two separate
14 things. And to provide regulatory authority to
15 insure compliance. So, although there is
16 statutory authority, often there's not
17 regulatory authority.

18 And there was one state --- so,
19 there was also a free text portion for each
20 survey part, and one of the states noted as a
21 recommendation to make this a Joint Commission
22 standard.

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1 For the second recommendation,
2 newborn screening specimens should be received
3 at the laboratory within 24 hours of
4 collection. Again, we note 31 states responded
5 to this question, and the response is from .6
6 to 80.8 percent that met this goal at this time,
7 the median being 25 percent of the specimens at
8 this time, or receiving specimens within 24
9 hours of collection.

10 For the factors that newborn
11 screening programs rated as having that major
12 impact on their ability to meet that goal,
13 geographic distance, 37.3 percent. The lab not
14 accepting specimens on weekends or holidays,
15 29.4 percent. Operating hours of the lab and
16 courier both were at 27.5 percent. Lack of a
17 dedicated courier at 25.5 percent, and batching
18 by birthing facilities at 19.6 percent.

19 Other gaps and barriers noted were
20 more things about courier services and other
21 mail delivery challenges. Birthing facilities,
22 submitter challenges in getting specimens sent

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1 out, which may be another form of batching. And
2 lack of timely feedback to birthing facilities
3 and submitters on performance.

4 So, as far as best practices are
5 concerned for meeting this goal, utilize
6 courier and/or overnight delivery services so
7 mail, U.S. mail was still utilized quite a bit
8 for newborn screening. Provide educational
9 activities to birthing facility staff,
10 laboratory staff, and parents. Continuous
11 quality improvement activities with birthing
12 facilities and submitters. Performance
13 monitoring and feedback, and expanding newborn
14 screening lab operating hours.

15 We were also tasked, as Kellie said,
16 with coming up with the list or developing a
17 list of time-critical conditions. So, we wanted
18 to find out how many states already have a list
19 of time-critical conditions. So, these are
20 conditions --- and the way we defined it for the
21 states was you do something differently with
22 these. You know, you're reporting them out as

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1 quickly as possible. You may be doing something
2 different. Maybe they're reported out before
3 they're final, if you have a gap between when
4 it's going to be final and now. So, 37 of the
5 states said they already had conditions that
6 they considered time-critical, 14 states did
7 not.

8 A list was --- and it's available in
9 your briefing book, but a list was gathered, so
10 we took a draft list from SIMD and sent it out
11 as part of the survey basically just asking does
12 your state currently consider these to be
13 time-critical? And those --- that's --- all
14 the details are listed in your briefing book so
15 that you can see what's already being done. But
16 there are also many other conditions that are
17 already also considered time-critical in some
18 states.

19 So, the question --- the third
20 recommendation, that newborn screening results
21 for time-critical conditions should be
22 available within five days of life. So, when we

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1 asked states what their current status was, we
2 had 17 states that responded, and the range was
3 from zero percent to 99 percent, with a median
4 of 75.8 percent.

5 So, I do want to make a note because
6 you've seen that the numbers have dropped off
7 on the amount of quantitative data that's
8 coming back. And one of the things that we note
9 and something that everyone needs to be aware
10 of is that we had that short window for the
11 collection of the data. So, laboratory
12 information management systems, you have to
13 have the data in a form that you can pull it out,
14 and you have to have the ability to pull that
15 data out in order to respond to a question like
16 this. Many states responded that at this time
17 they weren't able to pull that data, so they may
18 have had to contact a vendor to get a new query
19 built which would take longer than the amount
20 of time we had for the survey.

21 So, I also want to note that I talked
22 with Marci Sontag last night, and NewSTEPS is

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1 in talks with the LIMS vendors so that the
2 quality indicators that have already been
3 proposed for the NewSTEP website, they're in
4 talks with them to get those built into the LIMS
5 for the major vendors. So, she volunteered that
6 they could also talk to the LIMS vendors about
7 putting whatever the final determinations are,
8 putting those into the LIMS so that that data
9 would be easily queriable for the states, as
10 well.

11 So, the major factors impacting
12 states' ability to meet this goal, specimen
13 receipt time falls outside the recommended time
14 frame. So, specimens are received at five days
15 of life, you have no chance of getting the
16 results out in five days of life.

17 The operating hours of the courier,
18 operating hours of the lab, the lab not
19 accepting specimens on the weekends or
20 holidays, some home births are not reported.
21 And then in some instances second tier testing
22 impacts the ability to turn around those

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1 critical results. So, if you have another test
2 built onto the end to try to reduce the false
3 positive rate, then that impacts your ability
4 to get the results out in a faster manner. So,
5 we have to figure out a balance, as well, so that
6 we don't increase false positive rates because
7 we're trying to get results out faster. So, it's
8 another thing to consider as we look at this.

9 Also noted was use of an out of state
10 laboratory, and that does happen --- two of the
11 37 states responded as that, but there are more
12 states than that that utilize out of state labs.

13 As far as best practices, providing
14 education. You've heard it on every
15 recommendation. You'll continue to hear it. We
16 think it's a very important issue. Increasing
17 newborn screening program operating hours for
18 both the lab and follow-up, so the ability to
19 report out the results, make sure those results
20 are received by a healthcare provider.

21 Providing courier or overnight delivery
22 services, or encouraging their use. Monitoring

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1 performance and providing feedback to birthing
2 facilities, couriers, and laboratories, and
3 focusing on newborn screening program
4 improvement, such as increasing capacity,
5 decreasing turnaround time, use of technology.

6 And then the final recommendation
7 was that all newborn screening results should
8 be available within five days of collection.
9 So, the --- let's see, 22 states provided data
10 for this, and again zero percent to 100 percent
11 met this goal, with the median being 81.9
12 percent.

13 Factors that had a major impact,
14 delays in the processes. So, basically, all the
15 things we talked about before, so that we didn't
16 have to reiterate them. Operating hours of the
17 lab, the test itself. So, what that means is the
18 test doesn't take an hour, it takes a day, or
19 a day and a half to complete. And as we add more
20 and more testing, and more and more complicated
21 testing, that does impact turnaround turn
22 within the laboratory.

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1 Noted was the ability to implement
2 change, so although you as a newborn screening
3 program manager might want to do these things,
4 you have to have buy-in, and you have to have
5 the funding available to be able to implement
6 that change.

7 Also noted was the release of paper
8 newborn screening results to submitters via the
9 postal service. And limitations within the
10 laboratory or the laboratory information
11 management system functionality. And part of
12 that is that ability to collect data to be able
13 to measure these appropriately.

14 So, let's see. Some of the best
15 practices, you hear --- many of these you hear
16 over and over again. Expand operating hours of
17 the newborn screening program, insure timely
18 specimen collection and transit. Here's a new
19 one, improve reporting and communications
20 mechanisms, so electronic lab ordering,
21 electronic lab reporting. Ordering is
22 important because that cuts down on your

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1 demographic entry time up front, so if you're
2 not doing demographic entry in the lab that
3 can't be a barrier to you getting results out.
4 That may seem very simple, but it's not. It's
5 a logistical issue.

6 Providing education to birthing
7 facility staff on the importance of timely
8 newborn screening. Providing cross training to
9 newborn screening lab staff so that in case you
10 have staff out in one area they can cover for
11 each other in another.

12 Monitor performance, provide
13 feedback. That could be the feedback we provide
14 to ourselves as newborn screening programs, so
15 not only to hospitals but to the programs, or
16 within programs. And then, in general, newborn
17 screening program improvement activities. And
18 that's kind of that circle that was in the
19 middle of that one chart. We need to look at all
20 the processes.

21 So, following that we moved into the
22 third part of the survey and looked at new

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1 technology and second tier testing. So, has the
2 use of new technology or adding new tests in
3 your newborn screening program improved or
4 hindered your ability to perform timely newborn
5 screening? Nine states responded that it had
6 improved their timeliness, 15 responded that it
7 had hindered their timeliness. So the
8 improvements noted, that a new instrument
9 allows for continuous loading of test plates,
10 automated instruments and assays that run any
11 time during the day and overnight with minimal
12 supervision, deployment of a new computer
13 system, the ability to DNA results in tandem
14 mass spectrometry for quicker results, and
15 greater precision and accuracy which can lead
16 to faster turnaround time. If you don't have to
17 repeat tests as much, you can get results out
18 faster.

19 However, here are the hindrances
20 that were noted. So, the increase in the number
21 of disorders increases testing time. So noted
22 there is DNA testing for cystic fibrosis, so

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1 that's a component of the test in most states
2 at this point. And that is an add-on at the end,
3 so if you do --- you complete your screening for
4 IRT, then reflexes to DNA, that's another day
5 or so of testing.

6 High cost of reagents, limited
7 resources and capacities of newborn screening
8 programs including staffing challenges, so I
9 heard last night from a colleague that they've
10 lost several staff in the last two or three
11 years, and they haven't been able to replace any
12 of them.

13 Pressures to reduce false positives
14 leads to more testing before the release of
15 results, and that's a delay that's observed. So
16 that's, as I noted earlier about if we impact
17 one side, we're probably going to have an impact
18 somewhere else, and we have to really monitor
19 that.

20 Second tier testing, again cystic
21 fibrosis is noted here because cystic fibrosis
22 second tier testing actually delays reporting

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1 of the results. And CF at this time we don't
2 think is considered a time-critical condition
3 but we do have to get those results out as
4 quickly as possible. And we'll be having that
5 conversation very soon with the
6 pulmonologists.

7 Okay. So, this note, our survey
8 limitations. There was a lack of definition of
9 terms, so when we went to the states and we said
10 we want you to measure this, they said well,
11 what does availability mean? What does
12 availability of test results mean? You have 50
13 states, you have about 40 interpretations.

14 So, the data, as I mentioned in the
15 Subcommittee meeting yesterday is not
16 apples-to-apples. For most of those, you're
17 probably not comparing apples-to-apples
18 numbers, but it's a starting point for us to
19 look at.

20 The lack of ability to collect
21 appropriate data fields. So, that's something
22 that as we move into our revised

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1 recommendations that that will be mentioned.
2 So, for example, in the laboratory if specimens
3 are all received at the same time, you may not
4 get a time of receipt, you only get a date of
5 receipt. Well, that's going to limit your
6 ability, so you automatically have to say day
7 one versus eight hours.

8 And software limitations, so the
9 inability of staff to quickly pull data for ad
10 hoc requests such as this.

11 All right. So, we're going to turn
12 it over right now and Dr. Dolan from March of
13 Dimes is going to talk about their efforts
14 before we move into this section.

15 DR. DOLAN: I appreciate the
16 opportunity to just give a brief update on March
17 of Dimes activities that are very much in
18 keeping and in conjunction with the activities
19 of the work group that we just heard about.

20 The first is the newborn screening
21 quality improvement work group, which March of
22 Dimes has been organizing. It's a quality

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1 improvement work group dedicated to thinking
2 about the culture of safety in newborn
3 screening. It comprises 14 organizations, and
4 I have the membership list if anyone is
5 interested. So far the group has had two
6 conference calls and an in-person meeting, and
7 in addition there's a conference call planned
8 for October. So, these activities are really in
9 conjunction, and there's plenty of folks who
10 are overlapping, and we thank you for your work
11 on this Committee, and as well with the March
12 of Dimes Quality Improvement Work Group.

13 As part of this promotion of a
14 culture of safety in newborn screening, March
15 of Dimes has initiated some awards that will be
16 given out. And there's two general awards that
17 the organization is going to be looking at. One
18 are quality awards which are really policy
19 awards given to state health officials when
20 they have made the initiative within their
21 state to set a target of 72 hours, 48 hours, or
22 24 hours for having the screening results

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1 available, or having the policies in place to
2 have the screening within those time frames.

3 So, what we're looking at doing is
4 having a state be able to nominate when they
5 make those efforts, and we could see a state
6 going from a 72-hour award one year, and then
7 the 48-hour award, and then the 24-hour award.
8 The idea would be that it would be a
9 progression, it would be the ability to set
10 milestones, set targets, achieve them. And
11 March of Dimes is delighted to be able to award
12 and sort of recognize states that both have a
13 commitment to full transparency, and then
14 meeting those benchmarks.

15 The other award is going to be an
16 annual award called the Robert Guthrie Newborn
17 Screening Award, and it will be given to the
18 state health official who meets the highest
19 goal. And that actually will be given out at our
20 Volunteership Leadership Conference which is
21 meeting next week in Arizona. So, the first
22 award will be given out. And that will not

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1 --- that will be sort of an annual award
2 recognizing an individual on behalf of their
3 state. That's a different award than these
4 other awards, where like I said, we would see
5 states moving through the award process year
6 after year.

7 This is a new initiative. We're
8 still open to some feedback about it. We
9 appreciate the input we've gotten from members
10 of this Committee, as well as our work group,
11 and we're delighted to be part of recognizing
12 some of the efforts that states have put forward
13 in response to the APHL survey results, this
14 Committee's findings, the work group's
15 findings, and then our Quality Improvement Work
16 Group.

17 I was delighted to see yesterday
18 that the timelines really line up, so we're not
19 asking states to think of this Committee is
20 telling us this, and March of Dimes is telling
21 us this, which are we supposed to aspire to?
22 We're delighted that, you know, the input has

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1 been freely flowing between all these groups,
2 and we're all on the same page in terms of what
3 we're asking states to aspire to.

4 So, I'd just like to open for any
5 questions about these initiatives, and thank
6 you for the opportunity to present them to this
7 group.

8 The process if anyone is interested
9 is through Dr. Ed McCabe at this time who, as
10 I said, sends his apologies for not being here
11 in person, but due to a March of Dimes Board of
12 Trustee meeting he's in White Plains, but he is
13 very involved, as everybody knows. He and I work
14 closely together on this, and for the moment the
15 process for nomination is through Dr. McCabe or
16 myself, of course. So, you know, feel free to
17 contact us directly if we could speak with you
18 about that. Thank you.

19 DR. KELM: Thank you. So, our last
20 piece which may be the longest piece. So, the
21 --- we've had lots of calls, sometimes calls
22 have been an hour to discuss one recommendation

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1 and how we might revise it. And then a lot of
2 our time last night working with our group, our
3 Subcommittee and some other people that joined
4 us was also working on where we thought might
5 be some ways to revision the recommendations
6 based on some of the new data we have. But I
7 think we also thought that there was still
8 possibility of changes, because I still think
9 there's some new data coming down the road that
10 we've had a lot of discussions about that may
11 change things.

12 We sort of had a eureka moment where
13 we thought there actually should be a new
14 approach. So, the emphasis should be on the goal
15 of the program. So, we should actually move what
16 we considered or called the four
17 recommendations, three and four to the front.
18 So, the goal of the program is timely
19 notification of presumptive positives, as well
20 as obviously completing all of the testing as
21 quickly as possible.

22 So, whereas, Recommendations 1 and

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1 2 are very important, these must be achieved in
2 order to provide the means to achieve the
3 overall goal of the lab, which is timely
4 screening and getting those presumptive
5 positive results to the physician as soon as
6 possible. So, we decided to move them around,
7 3 and 4 go first.

8 So, the old one we have on the top,
9 and we tried to pull out what we thought were
10 some of the most important issues and things
11 that we really need to deal with as we revise
12 them. So, you know, what we kept hearing was
13 this whole available, what's that definition?
14 What do we really want? So, obviously, for
15 recommendation 3 in order to achieve this, you
16 know, it's all about collection, testing,
17 reporting, all being timely. And we had this
18 issue where timelines were too open for
19 interpretation, so we needed to find these in
20 order to down the road be able to capture this.
21 So, what this recommendation really we felt
22 should be is that presumptive positive results

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1 for time-critical conditions should be
2 reported to the child's healthcare provider
3 within five days of life. Now, the only caveat
4 is that, as we discussed, we're not sure that
5 we can capture this data now, but we think that
6 we can change --- you know, we're trying to
7 change the system so that we can capture this.

8 Right now it sounds like in a lot of
9 the systems this is free text that the physician
10 was called and contacted, so if we can --- if
11 people think this is more appropriate, which
12 it's better defined, then hopefully we can then
13 change the system so we can capture that.

14 It's a big one. All right,
15 Recommendation 4. All results should be
16 available within five days of collection. Once
17 again, issue what is available? We had the same
18 problems with definition, interpretation, et
19 cetera. And as we discussed, we really felt that
20 this actually had two components that needed to
21 be separated out. So, it's important for
22 providers to receive results on any out of range

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1 or presumptive positive results for
2 time-sensitive disorders in order to
3 follow-up. So, we came up with this, you know,
4 time-sensitive disorders indicates these
5 conditions we screen for that aren't
6 time-critical, but we felt this definition
7 captured that timely screening for the
8 disorders that also are important, all newborn
9 screening needs to be done as quickly as
10 possible. But it's also important for providers
11 to receive normal results in as timely manner
12 as they can.

13 So, we broke this one out into two,
14 and I'm sorry this is sort of cut off on the
15 bottom. All presumptive positive results for
16 time-sensitive conditions should be reported
17 to the healthcare provider within seven days of
18 life, but also all newborn screening results
19 should be reported within seven days of life.
20 I think one of the notes that someone said was
21 that when they're working with --- they saw
22 research that was ongoing that said 50 percent

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1 of the normals aren't always getting back into
2 the patient's file. So, you know, that's still
3 very important, and might not always being
4 performed but should be captured.

5 So, Recommendation 1, initial
6 newborn specimens should be collected at 24 to
7 48 hours of life. So, as we said, the
8 considerations here, different
9 recommendations exist for specimens collected
10 from pre-term, low birth weight, and sick
11 newborns, and we actually refer you to the CLSI
12 guideline that exists for the best
13 recommendations for taking specimens and
14 treating those babies.

15 As we said, some states had
16 different times frames in the regulations. We
17 know that California actually collects at 12
18 hours, and after some up to 72 hours. And here's
19 where we're talking about balancing false
20 negatives and false positives, especially with
21 endocrine disorders, but there was lots of
22 discussion about getting data from California,

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1 since they collect on the earlier side, looking
2 to see how well they achieve, for example,
3 detection of endocrine disorders with the fact
4 that they tend to sample --- take specimens
5 earlier than some other states. So, that might
6 help moving things earlier, because the earlier
7 that you can take a specimen, the faster you can
8 obviously ship them and test.

9 The new wording that we worked on
10 last night was that initial newborn screening
11 specimens should be collected in the
12 appropriate time frame for the baby's
13 condition, but no later than 48 hours after
14 birth.

15 So, Recommendation 2, specimens
16 should be received at the lab within 24 hours
17 of collection. Obviously, there are lots of
18 limitations and considerations. We heard about
19 the issues of couriers, geography, weather
20 limiting this, as well as obviously the
21 hospital staff batching and not drawing and
22 shipping as quickly as they should. And there

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1 is, you know, routine second screens, while
2 they should be also received and shipped very
3 quickly, obviously add a little hitch in here.

4 This one was the one that, as you
5 said, we've seen the most issue with the data,
6 and it has a lot of working pieces in order to
7 achieve this goal, but it is still important in
8 order to get the timely screening done to meet
9 the first recommendation.

10 Our new wording here is newborn
11 screening specimens should be received at a
12 laboratory ideally within 24 hours of
13 collection, but no later than 72 hours after
14 collection. But what we want to look for here
15 is that here's where states can make the most
16 improvement in this recommendation which
17 would, obviously, lead to better results for
18 the overarching performance of the system.

19 So, here I've put them, the new ones
20 that we've proposed all on a page for you to
21 consider, discuss. And so we've put the new ones
22 on the overall program up top, so in order to

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1 achieve the best outcomes for babies, and we've
2 put the reporting for the presumptive positives
3 and overall results within --- you know, on the
4 top. And that in order to achieve these goals
5 and reduce delays we need to get collection and
6 receipt ideally within those time frames.

7 So, we wanted to put these out for
8 everyone to consider, think about, any
9 discussions, we've love for your feedback.

10 CHAIR BOCCHINI: First of all, I want
11 to thank Kellie and Susan for a remarkable bit
12 of work within a short period of time. I think
13 they have organized their working group quite
14 well, and have been able to in remarkable survey
15 results get involvement of every program which
16 is, I think, very helpful to give us an
17 understanding of the state of specimen
18 collection, and that will be helpful to us. And,
19 again, thank you for the work.

20 So, these are the recommendations
21 of the Subcommittee for the Full Committee to
22 now discuss. Our goal is to give feedback to the

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1 Subcommittee, and see if we can finalize these
2 recommendations, or ask for additional work to
3 be done to complete them. Our goal if we're
4 ready to do so would be to then have the final
5 recommendations come forward to us at the next
6 meeting for a vote for approval, and a decision
7 as to --- let's open this to the Committee for
8 discussion.

9 DR BOTKIN: So, a point of
10 clarification. Do I understand that for state
11 labs that the critical conditions tend to be
12 reported out at the same time as other
13 conditions, or do people --- or do systems
14 report out results in a graded fashion
15 depending on the urgency of the response?

16 DR. TANKSLEY: So, in general, there
17 are --- so, there were --- trying to remember
18 the number, 30 some odd states that actually
19 have conditions they consider time-critical,
20 so reporting is done differently. So, I'll give
21 you an example. In Texas on Saturdays we process
22 specimens, we do the testing, we get to a final

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1 result. We don't report out a congenital
2 hyperthyroidism on a Saturday, but we report
3 out a whole list of other metabolic conditions,
4 most of which are on the list recommended by
5 SIMD along with CAH.

6 CHAIR BOCCHINI: Would you recommend
7 that that be a uniform pattern, or is it already
8 pretty uniform, or would that be a
9 recommendation that ought to be considered,
10 too?

11 DR. TANKSLEY: So, we didn't
12 collection information on what states do with
13 the critical conditions. We asked the question
14 do you have conditions you consider
15 time-critical? So, I don't know if we received
16 any feedback. I'm looking at Kareema. I don't
17 know if we received any feedback, you know, free
18 text on that. I mean, the recommendation itself
19 says that those should be reported out two days
20 of life prior to the ones we would consider
21 time-sensitive. So, I think that in itself
22 tells you that you need to do something to be

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1 able to report those out faster.

2 CHAIR BOCCHINI: First and then
3 Charlie.

4 FEMALE PARTICIPANT: So, this is
5 really an impressive body of work. Thank you all
6 for putting this together. And I like the idea
7 of emphasizing the most critical features
8 first, which is really those time-critical
9 conditions.

10 The only question I have that raises
11 some concern is that the last two
12 recommendations, if you add up the no later than
13 48 hours, and the no later than 72 hours, you're
14 already at five days of age, so how can you
15 possibly have time to do the tests and report
16 out the results for a time-critical condition
17 for those individuals? So, I worry that, you
18 know, laboratories or public health
19 departments literally interpreting those
20 results --- those recommendations and not
21 being as timely as would be ideal based on the
22 first two recommendations.

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1 DR. KELM: So, we had a lot of
2 discussion about that. I mean, it's been
3 brought up, obviously. You know, we had a lot
4 of interesting feedback, and some of it is
5 obviously --- we're hoping that all states will
6 work to the lower end, as appropriate, you know,
7 whether --- what you want to say. So, there's
8 some states that you can improve that, and
9 hopefully will do that. You have some states
10 that won't or can't.

11 So, I think in also talking to, you
12 know, NewSTEPS, the personnel that was there,
13 I mean, obviously these are numbers that we can
14 look at and report, and maybe use that for
15 states to improve their performance. Find out
16 what they're doing now and then use it to help
17 them move in a positive direction.

18 It was interesting, I mean, they
19 even showed that a lot of --- Recommendation 2
20 was the hardest one which is now --- we didn't
21 number them but, you know, getting them to a lab
22 within 24 hours. That was the one that they were

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1 meeting the least, but of the ones that actually
2 report time-critical conditions in five days,
3 that number was greater than 80 percent.

4 So, although the math doesn't add
5 up, I still think, you know, that's the idea in
6 order to achieve these, you know, shrink these
7 but, you know, we obviously also know about the
8 issues with some of the states and getting
9 things there in 24 hours.

10 CHAIR BOCCHINI: Charlie, then ---

11 DR. HOMER: I just first want to add
12 my commendation, very exciting to see a survey
13 with 50 responses.

14 I have a couple of small --- a
15 couple of comments I'll group together. One is
16 I told my Subcommittee that QI has lots of
17 (inaudible) which drive people nuts, but one of
18 them in response to your last observation about
19 hope is we have a saying that says hope is not
20 a plan. So, I mean, that sounds facetious but
21 I do think in terms of the bottom two
22 recommendations, hope is not a plan. So, I think

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1 if we feel it's important my inclination would
2 be that we stay the standard as --- come up with
3 timelines or facilitate efforts.

4 On the first one, I guess, again I'm
5 not a laboratory person, is presumptive, which
6 is will there be universal understanding what
7 presumptive positive is? Clarify that. The
8 second two recommendations seem redundant to
9 me. All need to go, all includes presumptive
10 positive, so unless there may be a subtle
11 distinction there.

12 DR. KELM: This is capturing, as we
13 sort of mentioned, like CF needs actually the
14 second tier testing, and a lot of those have
15 second tier testing, so we would like to get
16 them out even earlier than seven, but a lot of
17 them require that the testing which still takes
18 about seven days.

19 DR. HOMER: But, again, it says all
20 presumptive within seven, and then it says all
21 within seven, so the recommendation --- I mean,
22 two is a subset of one.

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1 DR. TANKSLEY:: There's a
2 difference. So, the difference is that it is how
3 you would calculate your results for that. So,
4 it's different time points that are measured.
5 So, if you look at presumptive positive results
6 and reporting out presumptive positive
7 results, it's reported to the healthcare
8 provider. That means the healthcare provider
9 --- you have made contact with the healthcare
10 provider; whereas, if you look at all results,
11 the time frame that you're measuring is to the
12 time you have a report available. That report
13 is not communicated in person to anyone,
14 because those are your normal. So, that
15 --- it's a subtle difference, you can drop one,
16 but it's actually calculating --- it's
17 calculating for your presumptive positives for
18 everything else, and it's calculating all of
19 your results, so you calculate for your
20 critical results communication to healthcare
21 provider, your time-sensitive results for
22 reporting to the healthcare provider, and to

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1 the time you have all results available in the
2 form of a report.

3 DR. HOMER: So, then maybe it's just
4 a question of wording. I think what you're
5 saying is, basically, if you post to a website
6 or send an email, or put a letter in the mail
7 you would have met Number 3, and for Number 2
8 you actually needed to document the
9 conversation.

10 DR. TANKSLEY: And that would all be
11 captured in like the discussion, you know, how
12 --- those things, like the definitions would be
13 defined within the paper itself.

14 CHAIR BOCCHINI: Steve is next.

15 DR. MCDONOUGH: I'm indicating some
16 disappointment in the recommendations. I don't
17 think this goes anywhere far enough considering
18 the problems that we have. Babies are born every
19 day in every state. Doctors check babies every
20 day, hospitals draw blood spots every day,
21 babies have their hearing checked every day,
22 they have their O2 stat checked every day. If

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1 you're involved with healthcare babies you need
2 to be open every day. Particularly for these
3 time-sensitive critical conditions, state
4 health labs need to be open every day, and
5 there's no recommendation in there for that.

6 A baby's chance of survival should
7 not depend on the day that they're born. And,
8 unfortunately, in this country that's what
9 happens, and we could do better than this.

10 I think that I would --- even though
11 an example of just being in practice, a couple
12 of years ago I was on call on a Saturday, and
13 I received a phone call from the Iowa Public
14 Health Lab which does North Dakota's testing,
15 on a baby who was born in a small town near
16 Bismarck. It wasn't born in Bismarck, on
17 Thursday. And I got a call on Saturday afternoon
18 on a presumptive positive. It wasn't even my
19 baby, it wasn't even my partner's baby, it was
20 in a totally different town, but they couldn't
21 get a hold of the doctor there and they called
22 me. And we had that child admitted to a

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1 hospital, and this is within two days of age.

2 This is in a state, North Dakota,
3 that doesn't even do public health testing for
4 newborn screening. It's done in another state,
5 in Iowa, so I know we can do better than the data
6 indicates. And I think our recommendations need
7 to be stronger.

8 I don't see why we can't have
9 results of presumptive positives within four
10 days rather than five. There should be a
11 recommendation for public health labs to be
12 open every day, and there's none here. And,
13 unfortunately, the public health labs have been
14 under a lot of stress lately. We had a great
15 recession which put very strong financial
16 pressure on the public health labs, and then
17 they had to absorb the large workload of
18 congenital heart disease screening, so I'm
19 empathetic to public health labs of trying to
20 improve what they're doing under very stressful
21 circumstances.

22 I think it would be very nice if

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1 federal funding sources or agencies such as MCH
2 and CDC provide some financial assistance to
3 state labs so they can do process improvements,
4 improving either the number or opening
5 --- being open every day of the week if they're
6 not currently, or adopting new technology, or
7 assistance in hiring staff.

8 Right now what we do in this
9 Committee is we basically provide them kind of
10 an unfunded federal mandate when we actually
11 come to a conclusion and recommendation that
12 actually gets approved by the Secretary, which
13 doesn't occur on a regular basis. They are
14 forced to try to implement that without us
15 giving them any assistance. So, anyway, we have
16 babies in this country who are dying
17 unnecessarily because of the day of the week
18 that they were born, and we should be doing
19 better. And I think our recommendations should
20 be ---

21 CHAIR BOCCHINI: Coleen.

22 DR. BOYLE: Yes, I want to recognize

1 the great work that you all did, as well. And
2 I was wondering trying to --- being about data,
3 and trying to help facilitate this process,
4 have you considered as one of your
5 recommendations actually having a tracking and
6 management --- these recommendations are
7 actually put into practice.

8 DR. KELM: I don't think we discussed
9 that. I think it's something to consider. I
10 mean, it might be worthwhile as, you know,
11 something to put in the report, but I think for
12 long term we thought, obviously, it sounds like
13 that was a hurdle for now, but that, obviously,
14 we were hoping that was something that we could
15 fix in the near future. And that, obviously, the
16 recommendations would be in place for longer
17 than that, but we can have some discussions
18 about where that --- we definitely think that
19 needs to be available for states, figuring out
20 the mechanism for recommending it, or at least,
21 you know, putting it in the report. We can
22 discuss that, but that's a good point.

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1 DR SONTAG: Hopefully in response to
2 that NewSTEPS is collecting this information,
3 and as Susan mentioned earlier, we're working
4 with the vendors to put this into their system,
5 the quality indicators. And many of these stem
6 directly from the quality indicators that we
7 have opened to our repository, so those are
8 things that will be reported out to the national
9 repository on an annual basis.

10 It was also at the states' request,
11 can we track some of these things locally on a
12 monthly basis, and working with all of the
13 vendors who are very interested in helping us
14 with this, I think we can give them some tools
15 so they can collect if we have it progressing
16 monthly on some of these.

17 DR. BAILEY: Thanks for a great
18 collection effort in getting this
19 organization. In several of your slides you
20 mentioned education and training as one --- and
21 I'm trying to --- I'm wondering if you have any
22 more detail on what that might be, because it

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1 seems like the issues are much more structural
2 and financial, and maybe --- awareness of the
3 importance of working towards these kinds of
4 recommendations, but I'm wondering if there are
5 specific technical training kinds of
6 --- talking about as well there, or --- anyway,
7 I would just love any thoughts you might have
8 about what that is, because I think Catherine
9 and I both would --- Education and Training
10 Committee to think about this at all.

11 DR. TANKSLEY: Thank you. So, much of
12 the education and training that was mentioned
13 was for the healthcare providers. So, for
14 birthing facilities --- prior to that. So, you
15 know, proper specimen collection, proper
16 --- how do you handle it once you have it in your
17 facility? What is the importance of having
18 timely newborn screening so that it is not
19 batched?

20 In Texas we learned --- so, we've
21 always said don't batch, don't batch, don't
22 batch, but there's different variations of

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1 batching. There are satellite hospitals that
2 feed into a main facility and the labs feed into
3 that main lab, so you may lose a day or two just
4 going from one hospital to the other. There may
5 be systems in place within that hospital,
6 because we've talked to a lot of those
7 facilities and those facilities said well, how
8 do we do that? How do we not --- how do we send
9 directly to you, because they don't have the
10 mechanism in place to track the stuff when it's
11 within their own facility because they utilize
12 the main facility for that.

13 So, as I said, there are different
14 issues, and the more we dig, the more we find
15 out. But a lot of it is education and awareness.
16 The healthcare providers that --- these are the
17 goals that need to be met. We're trying to
18 insure timely collection.

19 We had another instance where we
20 found out --- we provided feedback to a
21 healthcare provider who had the over five-day
22 delay, the huge percentage of over five-day

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1 delay, and they said well, we thought we had 13
2 days to get it in to you. Well, you're missing
3 the point here. So, I think there are issues
4 with awareness of what is newborn screening,
5 and why do you do it even within healthcare
6 facilities. And there's a large staff turnover,
7 so you can't educate once. You have to educate
8 often, but programs are constrained.

9 We have over 500 birthing
10 facilities in Texas. We can't visit them once,
11 so how do you deal with those sorts of things?
12 So, education and training of one sort for
13 healthcare providers --- I don't know where
14 Carla is at in the room. Oh, I'm going to let
15 Carla speak for a second.

16 DR. CUTHBERT: Yes, thank you. A
17 group of us were able to attend the AWHONN
18 meeting earlier this year, and I forgot what
19 AWHONN is. I think it's the Association for
20 Women's --- it's a group of nurses --- yes,
21 someone knows it. Thank you. Thank you, a
22 wonderful, wonderful group, but I was actually

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1 able to present with Emily Drake at a session
2 for newborn screening. And we really just
3 wanted to target the nurses, and remind them,
4 and give them an opportunity to understand how
5 to do collection of samples.

6 Prior to the meeting, we were able
7 to get about 200 copies of the CLSI guidance
8 document on blood collection, and we
9 distributed them freely to the people who were
10 in attendance. And we have a list of them that
11 we're going to distribute the DVDs, as well.

12 As a follow-up to that, we secured
13 a number of other copies, and we're looking at
14 ways right now to strategize to approach the
15 nursing community again to help them with
16 quality improvement activities.

17 One of the nice things about this
18 was that CLSI said that they would give
19 permission to us if this was asked of them for
20 the nurses to put the DVD onto their network,
21 so some of the nurses were asking well, this is
22 one DVD, that's great, but we have, you know,

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1 multiple hospitals, we have lots of training
2 opportunities. So, with permission they can
3 actually put it onto their network and use it
4 as a training resource for their entire
5 program.

6 We're looking to find a way to
7 encourage the nurses to distribute this in a way
8 that we can actually capture quality
9 improvement best practices among the nurses,
10 and to be able to chart them. Now, we're just
11 starting with the nurses, the birthing
12 facilities would be a different thing. There
13 are other conferences that address some of
14 those other locations. This is just the
15 beginning of the process for us.

16 MS. WICKLUND: This is just
17 following up on that issue a little bit. You
18 guys said some states reported back to you that
19 they were already like educating the birthing
20 facilities, and providing training. Did you get
21 any idea how they were doing that? I know you
22 said like in Texas it's huge, and you have tons

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1 of places, and they're hard to visit. But I know
2 that wasn't the purpose of your survey, but did
3 you get any information about what is being
4 done, and then how actually successful that
5 was?

6 Careema Yusuf: As to how they're
7 doing it, a lot of them online training manuals
8 or they have annual meetings where they provide
9 training to the birthing facilities, so they
10 have booklets that they share, they have
11 pamphlets to share, and things like that. But,
12 again, the feedback that we received is that the
13 resources to do that are reduced, so they're not
14 able to do it as often as they would like.

15 CHAIR BOCCHINI: Can I ask you to
16 identify yourself for the recording?

17 FEMALE PARTICIPANT: I'm sorry. This
18 is Careema from APHL.

19 CHAIR BOCCHINI: Other questions
20 from the Committee at the present time? If not,
21 then --- oh, I'm sorry. Go ahead.

22 DR. HOMER Just a brief comment on

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1 the education. Those of us who work --- and,
2 again, I'm sure that's most people in the room
3 in the behavior change field know that
4 education is a valuable first step, but
5 typically education is not sufficient to drive
6 changes in behavior.

7 So, for example, I guess one analogy
8 I'm thinking of is the work that a number of
9 states have been doing working with their
10 hospitals to improve the entry of electronic
11 birth certificate data. So, again, part of it
12 you start with education, why is this
13 important? But then it really needs to move to
14 feedback to actual data to the nurses at the
15 front line to show them how it's important to
16 give them the run charts, the data overtime
17 looking at that, and giving them the power. And
18 when we finally actually bring that data back
19 to the front line providers who are doing that
20 entry, you know, we've got places that are now
21 turning around electronic birth certificate
22 data much more --- I don't think education is

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1 a key first step, but it's not the whole ball
2 of wax.

3 DR. KELM: And I think that's --- you
4 know, we are trying to work, and I know, you
5 know, the group that March of Dimes convenes
6 includes the American Hospital Association.
7 We're still trying to reach out and maybe
8 discuss with the Joint Commission about
9 standards. And I'm sure that process is going
10 to be a longer one than January, but there are
11 some ways that maybe we can try to make it an
12 actual standard, and something that's set that
13 people are assessed against. But I think the
14 feedback, obviously, there's some data being
15 sent, but, obviously, the --- it sounds like
16 some states want to do a better job. I don't know
17 if they can, but more frequent data being
18 shared. But, obviously, it was variable between
19 the states as to how often they were doing that.

20 CHAIR BOCCHINI: Carol, and then
21 Natasha.

22 DR. GREENE: First, I had kind of a

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1 question for clarification to be sure that we
2 all understand, then a specific comment about
3 the draft new recommendations.

4 It is my impression from what you
5 said that some of the states that did not reach
6 their goal for having the sample collected
7 between 24 and 48 hours, it was because the
8 sample was collected early, and that's why you
9 were hearing that one of the obstacles was that
10 there's different recommendations for
11 collection for the sick babies, which is to
12 collect them the moment they hit the NICU, which
13 could be an hour of age. Is that a correct
14 assumption? If so, I think it just needs to be
15 made a little bit more clear on how you report
16 the data because the assumption that many
17 people will make is that the states that did not
18 meet that goal, it's because it was too late.
19 And you want to be clear that some of the states
20 are collecting --- don't make that goal because
21 we've inappropriately said that you can't
22 collect the sample before 24 hours of age, which

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1 is against the recommendation.

2 DR. KELM: Yes, and I think we saw
3 that that was a great number of them, but there
4 is also some states that the regulations allow
5 them to collect up to 72. So, some of that is
6 that in some states it's acceptable to collect
7 later than 48, so it's both sides.

8 So, there was some discussion about
9 whether or not we would actually make this
10 recommendation only for apparently healthy
11 newborns between 24 and 48, but we felt this
12 grasped the fact that depending on the newborn,
13 it's appropriate for their condition, it would
14 be --- it could be early in some cases.

15 DR. GREENE: Right. The
16 recommendation I think absolutely captures
17 that, it was your data collection slide where
18 some --- you know, the percentage of labs that
19 were not able to comply with the recommendation
20 included a lot of labs that were getting samples
21 from sick babies too early, and that should just
22 be clear.

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1 And then for the recommendations,
2 speaking just --- it is --- I think the
3 recommendations are great, speaking
4 --- comparing them to what the SIMD statement
5 is. I think it's possible to clarify a little
6 bit, because I think it's not entirely clear the
7 distinction between reporting a presumptive
8 positive as soon as you get it, and no later than
9 five days of age. It might be some language that
10 would be appropriate. And, of course, for the
11 SIMD statement, you know, it's going to vary on
12 the laboratory. You know, if the C3 is 25, then
13 you're going to, as most labs do, you're going
14 to make a phone call and say I haven't even had
15 a chance to rerun it to see if this is right,
16 but I want to alert you, as opposed to a C3 of
17 8, and you're going to recheck it and make sure
18 it's 8, and then call. So, each lab is going to
19 have their internal processes as appropriate,
20 but I wonder if you could incorporate the
21 language that the presumptive positive report
22 results for time-critical conditions should be

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1 reported to the healthcare provider
2 immediately on having a presumptive positive
3 and no later than five days of life. And that
4 will also help with the distinction between,
5 you know, you might report a positive before you
6 have the whole rest of the results, to maybe
7 import some of that language.

8 MS.BONHOMME: Okay, thank you. This
9 goes back to the conversation we were having
10 around education, and I agree with everything
11 that has been said in terms of the importance
12 of reaching out to the nurses, and also the
13 midwives who are on the front line of this,
14 Genetic Alliance through Babies First Test.
15 I've had an engagement with AWHONN, as Carla
16 mentioned, the Association of Women's Health,
17 Obstetric and Neonatal Nurses for over three
18 years now in terms of presenting to nurses and
19 working with them.

20 I think one thing that's important
21 in the education is not just messaging out why
22 is it important from the lab perspective, why

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1 getting the samples back in is important, but
2 also what the barriers, or assumptions, or the
3 culture at the birthing facilities, because we
4 have done focus groups with a birthing facility
5 in D.C. that serves babies that are residents
6 of D.C., Maryland, and Virginia. And one of the
7 things that came up that would have never
8 crossed my mind was oh, why does this have to
9 be at 24 hours? Is this really just a way to keep
10 the baby in the hospital longer? So, if you
11 --- and that may seem oh, my gosh, to us, but
12 if that is an actual belief at that ground
13 level, as part of the education we have to find
14 a way of addressing that. So, I think these
15 recommendations make sense presented from the
16 lab perspective, but there are probably another
17 set of recommendations and strategies that
18 could come from the education and training
19 perspective that could really address the issue
20 of what is happening at the ground level, what
21 are the beliefs and assumptions and barriers
22 there that we can then hopefully find some

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1 strategies to address. So, I hope this
2 Committee will take that up in some effort.

3 DR. BOTKIN: Yes, my thanks, too, for
4 really very helpful and important work. It
5 seems to me the recommendations are designed
6 around outcome markers and goals, as opposed to
7 process issues. And if I understood the data
8 that you collected, there's a variety of
9 challenges that these complicated systems
10 face, but big ones were labs not being open on
11 weekends, and courier systems.

12 So, sort of picking up on Stephen's
13 comments, why or why not make a specific
14 recommendation to say labs ought to be open on
15 weekends, and that people ought to use
16 overnight courier systems to achieve that? And
17 I'm also interested, kind of noted in passing
18 about the Joint Commission. It seems to me
19 that's a pretty big stick. The hospitals really
20 do care about that, arguably more than what they
21 might care about from demerits from the Health
22 Department, so I wonder if you have specific

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1 thoughts on why those --- whether those might
2 be recommendations to consider?

3 DR. SHONE: Excuse me, this is Scott
4 Shone. So, I appreciate your comment, Dr.
5 McDonough, about where the recommendations
6 need to go, but I do think it's unfair to
7 singularly point at the Public Health
8 laboratory as needing to be open seven days a
9 week, because you have scenarios where even in
10 a scope of a laboratory that's open five or six
11 days a week, you get the same outcome that you
12 had with a three-day turnaround of a critical
13 result. The fact that you can achieve that, you
14 just don't achieve that 100 percent of the time.

15
16 But this whole discussion started
17 out with a request for the work group to come
18 up with what is the newborn screening system?
19 And we need to acknowledge that this isn't a
20 laboratory issue. It's not a program issue.
21 It's a newborn screening system issue, which is
22 what you were just addressing, Dr. Botkin. And

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1 so in Texas you have 500 hospitals, and you
2 probably have them do newborn screening
3 collection 400 different ways. So, we could be
4 open every day of the week, but if a hospital
5 decides to collect on the first shift, and they
6 draw those blood spots, and their courier picks
7 up, you know, during the first shift, there's
8 already a 24-hour delay. And you have a hospital
9 that has timed it so that they collect it and
10 send it out the same day that it's collected,
11 but getting that message out to that part of the
12 system, throwing it on the program, the
13 laboratory, et cetera, negates that whole part
14 of what's going on here. So, there has to be a
15 multi-faceted approach to these
16 recommendations that doesn't just target the
17 lab, doesn't just target the follow-up program,
18 but the whole system, the picture that Kellie
19 and Susan put up in the beginning. So, while
20 addressing one part solves one part, we're
21 still going to have all the same issues, so in
22 February when this group meets again, if all the

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1 recommendations focus on having the labs open
2 24 hours a day, then we'll meet in 2016 and talk
3 about well, how do we get the hospitals to
4 collect in a timely fashion, and make that
5 recommendation to look at their process to
6 improve that. So, I think these recommendations
7 are excellent, and I say that as being part of
8 the group yesterday that helped come up with the
9 recommendations, so that's full disclosure.
10 But I think that it levels measurable and
11 achievable goals to start at least from a
12 program perspective, which is what --- but I
13 think it needs to go wider.

14 CHAIR BOCCHINI: Do you want to
15 address that further, Susan, and then Cate.

16 DR. TANKSLEY: I want to make a
17 comment. These results, or these
18 recommendations are achievable, but they're
19 very difficult. These are not easy. If newborn
20 screening programs set these as goals, we will
21 move mountains. There are so many barriers out
22 there that are difficult to overcome, and in the

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1 last year a lot of work has been done to improve
2 timeliness. And states have taken it upon
3 themselves to do that. A lot of improvements
4 have already been made.

5 When we collected the data, we
6 didn't want to collect data from 2013. We wanted
7 to collect data from the most recent, I think
8 nine months is what we asked for, because we
9 wanted more recent data that reflected the
10 improvements that states have already made. So,
11 if we took data from let's just say calendar
12 year 2013, those numbers would have been much
13 worse. And I know within our own state, we've
14 made a huge --- a massive amount of effort in
15 improving timeliness.

16 I think that setting these as goals
17 for the programs will help all the babies in the
18 U.S. And it may not be where we need to be, and
19 it may be --- I mean, some of these conditions,
20 we need a bedside test. And some of these babies
21 won't be helped by newborn screening, and that
22 has to be acknowledged.

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1 There are some who, unfortunately,
2 on the first day of life are having issues with
3 some of these metabolic conditions, so I
4 appreciate the suggested change in wording that
5 Carol had that said okay, well, if you're
6 meeting --- basically, what it means to me is
7 if you're meeting five days of life, that's
8 great, but that doesn't mean you should stop
9 there. So, if you can do better, that's better.
10 And I think we can use this as newborn screening
11 programs to improve ourselves. We use them as
12 our goal. Yes, we want all samples --- all
13 specimens in the lab within 72 hours of
14 collection, but we're shooting for within 24.
15 And I think it's really important that we
16 acknowledge that there are major barriers in
17 areas. There are areas of states that have no
18 couriers, so that within 24 hours is literally
19 impossible.

20 We have received an email from a
21 newborn screening program in Utah that said we
22 have parts of the state where even the courier

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1 takes two days. So, if you think about things
2 like that, yes, it's easier when you're looking
3 at urban areas. When you start throwing in
4 rural, and you start throwing in hundreds of
5 miles from the lab, it becomes more difficult.
6 Yes, you can receive it if you have overnight
7 courier available to that particular hospital,
8 but overnight courier is not available to all.
9 So, I don't think we should set programs up for
10 failure that have even those barriers. There
11 will be times that there are snowstorms where
12 those couriers won't run.

13 We still have issues with couriers,
14 major couriers, they don't run seven days a
15 week, so if you don't have a courier that's
16 there seven days a week, why have a lab sitting
17 there doing testing seven days a week? We need
18 to figure out how to remove some of those --- if
19 we have any way to remove the barriers. There
20 are barriers that you can't remove, so I just
21 think that needs to be acknowledged. And that
22 if states set these as goals, huge improvements

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1 will be made.

2 MS Walsh Vockley: Thanks. Susan, I
3 want to acknowledge the difficulties you've
4 just relived for us again, but dovetailing on
5 what Scott said, it seems to me that if we're
6 going to work hard to improve all of the
7 components in the newborn screening system, and
8 certainly an acknowledgment of what parents
9 have recognized as one link in the system that
10 they have seen as being difficult in getting the
11 samples to the laboratory, I'm still a little
12 uncomfortable with codifying the 72 hours as
13 the within 72 hours. I mean, is there data that
14 you looked at from the materials that you
15 collected that suggested that number? Could we
16 not say 48 hours?

17 You know, is there some statistical
18 way we could assess whether or not there's a
19 better number to put there? It just makes me a
20 little uncomfortable giving that outside time
21 limit.

22 DR. TANKSLEY: Data were not

1 collected on any time frame other than the
2 within 24 hours. It would be interesting if
3 there --- I think states would kill us if we
4 pulled another survey out of our pockets. So,
5 it would be interesting to look at other time
6 frames; 48 hours popped in my mind yesterday.
7 Should it be something different?

8 Many states have that 72 hours. I
9 mean, we've heard that, but where it came from
10 was from that ACMG report, because there were
11 two different recommendations. In one part of
12 the report kind of buried within it said
13 specimens should be received within 24 hours,
14 or as soon as possible. And then when the actual
15 recommendations were written out later in the
16 report it said within 72 hours. So, that kind
17 of gives that range of those two numbers.

18
19 DR. BAILEY: I think we're kind of in
20 the middle of saying what's the ultimate goal
21 that we want to achieve, and then how do we get
22 there? And I would say that we should first

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1 agree on the goal. There are lots of different
2 ways to get there, and so to specify the, you
3 know, the specimen has to be in the lab by a
4 certain time, or the lab has to be open by a
5 certain time; whereas, I agree those are all
6 important --- it seems to me that the first
7 thing we should --- the first --- what we
8 really want to know is when the results get to
9 the --- what we should be making, drawing kind
10 of a line in the sand saying, you know, you can
11 figure out how you can get there, give some
12 examples of ways to get there, but here's the
13 standard. Here's what we expect. So, I would
14 focus on the first two or three bullets there,
15 and not necessarily as much on the how to
16 --- that could be a follow-up supporting
17 document or something like that. But I think in
18 terms of recommendations of the Committee, the
19 most powerful thing we can do is to set the
20 standard for --- the only question then is
21 within --- is the five days, does that protect
22 the vast majority of babies --- babies at risk

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1 if we wait five days.

2 DR. TANKSLEY: There will always be
3 babies at risk.

4 DR. BAILEY: Sure.

5 DR. TANKSLEY: But I --- Carol, I
6 don't know if you care to make a statement?

7 DR. GREENE: So, first of all, I
8 agree there will always be babies at risk. The
9 conditions for which the time of diagnosis is
10 most critical can --- all of them present
11 anywhere from, you know, at birth, which is a
12 little unusual but it certainly happens with
13 some of the urea cycle disorders, to hours after
14 birth, which is, you know, six, eight, twelve,
15 twenty-four, thirty-six, seventy-two hours
16 after birth for methylmalonic, most of the urea
17 cycle, maple syrup urine disease, galxicimea.
18 All babies with these conditions are --- with
19 the classical presentation are typically sick
20 around the time the sample gets to the
21 laboratory. And what we teach is that the
22 purpose of newborn screening is not to make the

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1 diagnosis of the sick baby with MSUD, but so
2 that when you're in the middle of your sepsis
3 work up and you've already sent the amino acids,
4 and the newborn screening laboratory calls you
5 and says I think your baby has MSUD, you say ah,
6 hah, but you've already started the treatment.
7 Okay?

8 The newborn screening for these
9 critical conditions is lifesaving for some
10 situations, some of the babies with MCAD if the
11 baby was perfectly healthy and you tell the
12 family not to let the baby sleep long, the baby
13 --- the unusual baby with galxicimea who was
14 not already sick, and most especially CAH
15 because they look fine, fine, fine, fine, fine,
16 crash. Okay? But they're often --- they're
17 typically already crashed in the NICU anyway.

18 So, the notion that the newborn
19 screen is what saves the life of the typical
20 baby with the classic form of these diseases is
21 not actually correct. Those babies are
22 typically sick by the time the sample gets to

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1 the laboratory even if all of this is followed.
2 Okay? That doesn't negate the fact that some of
3 those babies are fine and will go crash a day
4 later, two later, days later. Anybody who does
5 what I do has saved the lives of babies with
6 galxicimea by making a phone call and finding
7 that the baby was home and getting a little
8 sick. Okay?

9 So, we want to see --- SIMD wants to
10 see these as quickly as possible, but we want
11 to be really clear, this is not the major thing
12 that is going to be lifesaving for the babies
13 with the classic disorders. What's lifesaving
14 for the babies with the classic disorders is
15 family practice doctors, pediatricians,
16 parents paying attention, calling when the baby
17 is sick, and the clinician putting this on the
18 differential diagnosis. This is all lagniappe,
19 which is New Orleans for serendipity and it's
20 nice it comes along with for finding the babies
21 with PKU and all the disorders that present
22 later with no symptoms. The babies with the

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1 classic forms of these diseases are already
2 sick by the time you do everything right.

3 I hope that answers the --- I mean,
4 we still want the result as quickly as possible,
5 but please nobody should be assuming this is
6 going to save the life of the baby who dies on
7 day one, or day three with MCAD or who is
8 vomiting and comatose with OTC, or seizing with
9 MSUD.

10 CHAIR BOCCHINI: This has been a
11 really important and I think good discussion.
12 And I think to sort of summarize, it sounds as
13 if there's general consensus that the first
14 three recommendations are appropriate with a
15 little tweaking in language seem to be
16 acceptable by the Committee, but that the last
17 two recommendations, there's considerable
18 concern about giving the margin of time out to
19 the maximum rather than setting a standard that
20 we want to achieve. I think that's the feedback
21 that I think the Committee has made to the
22 working group.

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1 To answer Scott, I think that your
2 comments are quite appropriate, and I think
3 that we ought to be focusing on what we want,
4 and let the states decide how they're going to
5 achieve those goals. I think that's the most
6 appropriate approach, but I think that what
7 these recommendations do by allowing a delay in
8 the maximum time that a specimen could be taken,
9 and then gotten to the lab puts the lab in the
10 worst position because then they have less time
11 to achieve the primary goals that you have to
12 get the results out in five or seven days. So,
13 I think that we ought to be just as strong with
14 setting a timeline for collection and receipt
15 of the specimen, so that it gives the lab the
16 appropriate amount of time to do --- that would
17 be the feedback that I think ---

18 FEMALE PARTICIPANT: I might just
19 suggest that, making a comment that this is a
20 working living document, and that ---

21 CHAIR BOCCHINI: Okay. And, again, I
22 want to thank you both for an excellent tackle

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1 of this problem, and --- along very nicely. And
2 I will also say that we are working closely with
3 the March of Dimes, and with multiple other
4 organizations to when we all come to consensus
5 about how to move forward with recommendations,
6 that's when the attempt will be made to go to
7 the Joint Commission and --- requirements for
8 the hospital side.

9 DR. BOYLE: I think maybe one last
10 idea, and it's been mentioned --- our focus
11 with this report has been more on the public
12 --- the control of the public health
13 laboratory. Couldn't we focus some attention on
14 the hospital aspect of it? What we can do,
15 performance measures --- bundled in. We did
16 some work on Vitamin K, and the challenges with
17 Vitamin K shots, and it's all bundled into one
18 billing code. I just felt like we can do
19 something ---

20 CHAIR BOCCHINI: I think that's a
21 really good point. And I think based on the
22 survey and the answers that you've gotten about

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1 what the barriers are from the hospital side,
2 getting to the lab, I think you have the genesis
3 of the information that you need to kind of
4 build on that. I agree, I think that's a --- it
5 seems like that's a really component that has
6 to be addressed. And I think that ---

7 DR. BOYLE: I would volunteer to lead
8 a work group to think a little bit more about
9 that.

10 CHAIR BOCCHINI: All right. I think
11 that's a great ---

12 DR. BOYLE : We appreciate that. You
13 know, a lot of --- I'm sorry. A lot of our
14 --- you know, we were doing a lot of work and
15 we were realizing that we needed to deliver
16 something as soon as possible. Obviously, the
17 scope was quite large if we wanted to handle,
18 you know --- obviously, we have (inaudible) the
19 public health labs and reaching at the
20 hospitals was more difficult for us. And it was
21 just a scope that concerning our day jobs, we
22 were having trouble achieving that, as well.

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1 So, I think that's still something that we are
2 all interested --- obviously, very interested
3 in, and we can talk about ways --- I mean, if
4 the Committee wants to talk about that versus,
5 you know, tasking it to us, but it was hard. I
6 mean, obviously, most of our members are public
7 health personnel and not so much with the
8 resources of contacts in the hospital
9 community.

10 CHAIR BOCCHINI: Coleen has just
11 volunteered to get involved in that, so that's
12 good. Okay, Carol, last comment, and then we
13 need to move to the next item.

14 DR. GREENE: I would --- I've worked
15 many, many times with our lab and our State
16 Health Department, and our hospital, and
17 education is key, but I'd like to come back to
18 the JCAHO . You know, there are new people in
19 pathology. If you have to re-educate them over
20 and over, and they make the same mistake again
21 two, three years later. And a question was asked
22 about JCAHO yesterday, I think, from one of the

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1 public comments. And I wonder if this Committee
2 could possibly even vote on moving forward with
3 working directly with JCAHO to make this a
4 JCAHO sentinel event, that if samples do not
5 leave the hospital in an appropriate time,
6 recognizing all the other barriers of couriers,
7 but if samples don't leave the hospital --- if
8 the samples are not collected properly and
9 leave the hospital in a timely fashion, if that
10 were a JCAHO sentinel event, things would be
11 a lot better.

12 CHAIR BOCCHINI: Carol, I appreciate
13 that comment, and clearly that's one of the
14 aspects we'd like to pursue. I think that what
15 we'd like to do is really -- - we have a
16 consortium of people through the March of
17 Dimes, that includes the American Hospital
18 Association, and a number of other groups, and
19 so I think we would be in a much stronger
20 position if that group together went to the
21 Joint Commission. And I think that's what the
22 general plan that's evolving will be, so I think

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1 that --- time is appropriate. Certainly, I
2 think we should ---

3 DR. GREENE: I was just thinking that
4 if the Committee --- so, March of Dimes has huge
5 standing and cachet, but if the Committee
6 --- it might help the March of Dimes if the
7 Committee were to make a statement that
8 whatever the details would be would be worked
9 out by that group, appropriately including
10 everybody, but it might help the March of Dimes
11 if the Committee said that newborn screening,
12 getting newborn screening collected and out the
13 door should --- failure to do that should be a
14 sentinel event, and the details could be worked
15 out by that consortium.

16 CHAIR BOCCHINI: Okay, thank you.
17 Okay. Thank you, again, very much. Can you go
18 to the microphone and give your name.

19 DR. MCDONALD: Susan is talking
20 about Sunday deliveries of groceries and
21 through the postal department, so I don't know
22 why we couldn't just get, you know, you pack it

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1 all up and it goes to one of these shipping
2 things. It goes always the next day. I mean, it
3 will cost 20 bucks per packet probably, or maybe
4 50, but ---

5 CHAIR BOCCHINI: I think you just
6 found a new use for drones. All right, thank
7 you. The next item is electronic standards for
8 public health information exchange from the
9 National Committee on Vital and Health
10 Statistics. And I would like to introduce Dr.
11 Walter Suarez.

12 Dr. Suarez is a physician and a
13 Public Health and Medical Information Systems
14 Specialist, and the Executive Director of the
15 Health IT Strategy and Policy for Kaiser
16 Permanente where he is responsible for
17 coordinating and facilitating the development
18 of Kaiser Permanente's internal and external
19 Health IT-related policy positions, provide
20 the U.S. National-International Policy input
21 on Health IT-related domains. And fostering the
22 establishment of and leading regional and

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1 national public-private collaborative efforts
2 on Health IT on behalf of Kaiser Permanente.

3 Dr. Suarez joined KP in 2009. Before
4 joining Kaiser, he was President and CEO of the
5 Institute for HIPAA/HIT Education and
6 Research. And prior to this, he was CEO of the
7 Midwest Center for HIPAA Education, and before
8 that the Executive Director and CEO of
9 Minnesota Health Data Institute. He also worked
10 for the Minnesota Department of Health in
11 various senior policy positions.

12 We've invited him here to present
13 the background for a letter that this Committee
14 has sent to the Secretary, and we felt after
15 discussing with him that this is something that
16 certainly it was important for us, as well, so
17 we wanted him to make a presentation, following
18 which I'd like the Committee to determine if we
19 would be willing to write a letter to the
20 Secretary in support of their letter. So, Dr.
21 Suarez, thank you, and welcome to our Committee
22 meeting.

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1 DR. SUAREZ: Thank you. Thank you
2 very, very much for inviting me. It's a great
3 pleasure to be here. I represent the National
4 Committee on Vital Health and Statistics, and
5 Chair the Standards Subcommittee. And it's
6 interesting the discussion that you were having
7 earlier made me think of a lot of the
8 discussions that we have at the National
9 Committee, also. And, perhaps, the differences
10 is in, of course, the domain. A lot of our
11 discussion --- a lot of your discussions here
12 today were about how to move faster and quicker,
13 and reach the exchange of the samples, blood
14 samples for testing.

15 We do a lot of discussion about how
16 to make the movement of information, health
17 information more efficient and more effective
18 through the adoption of standards. And it's
19 interesting that in the public health arena,
20 the public health laboratories have really been
21 a leading force in adopting standards for
22 public health. And, certainly, the American

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1 Public Health Laboratory Association, APHL,
2 has really been the leading edge there.

3 So, what I've been asked to do, and
4 I think I'm --- okay. So, what I've been asked
5 to do is to present the recommendations that the
6 National Committee made to the Secretary on
7 Public Health information systems, and
8 informatics, Public Health informatics
9 standards.

10 I wanted to first do a brief
11 introduction of the National Committee for
12 those that are not familiar with the activities
13 of the National Committee. Give a brief
14 overview of public health information exchange
15 standards, and where things are, in general.
16 And then finish up with a review of the
17 recommendations, and really appreciate the
18 idea and the opportunity to talk to you about
19 these recommendations, and continue to perhaps
20 collaborate in the future in achieving those
21 recommendations, and finding ways to
22 operationalize them.

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1 So, let me start with, again, a
2 brief introduction of the National Committee.
3 The National Committee is really one of the
4 oldest statutory federal advisory committees
5 in the country, was created almost 65 years ago
6 as an advisor to the Secretary on primarily
7 three areas, health data, statistics, and
8 health information policy.

9 It has provided advice to several
10 groups and organizations, agencies within the
11 Department of Health and Human Services, the
12 Data Council, CMS, CDC, AHRQ, and others, and
13 it really has served and continues to serve as
14 a forum where public and private sector
15 organizations come to discuss and to present
16 issues related to health data and information
17 policies.

18 A few of the milestones really in
19 1949 was created in '74, the Public Health
20 Services Act gave NCVHS, the official status of
21 a statutory advisory committee. In 1996 with
22 the signing of the HIPAA legislation, the

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1 administrative simplification provisions of
2 the HIPAA legislation gave NCVHS a very
3 significant role in advising the Secretary in
4 the adoption of national standards, and
5 national standards across several areas. I'll
6 talk about them in a minute.

7 In 2003, the MMA charged NCVHS with
8 recommending electronic standards for
9 ePrescribing, and then in 2010 the Affordable
10 Care Act added some responsibilities to the
11 National Committee on advising the Secretary on
12 other areas of administrative simplification.

13 The Committee is formed by 18
14 members appointed by the Secretary for
15 four-year periods or terms, and it's organized
16 primarily in four core areas. The standards
17 area which includes administrative standards
18 for transactions, electronic exchange of
19 information for administrative purposes. The
20 codes that are used in those transactions
21 identifiers, the identifiers to identify
22 providers, patients, payers, others. And,

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1 certainly, within those standards the area of
2 Public Health, which is the one that we are
3 going to be talking about here.

4 We also work at the National
5 Committee on Population Health, and I'll
6 mention a few of the items that have been
7 developed under the Population Health
8 Subcommittee. We have a Privacy,
9 Confidentiality, and Security Subcommittee,
10 and then we have also a Health Quality
11 Subcommittee. In addition to that, the National
12 Committee recently added a special work group
13 advising the Secretary on all this new area
14 around deliberation of information. You've
15 probably heard about the Health Data Initiative
16 of the Department of Health and Human Services,
17 and the whole movement towards liberating
18 information that federal agencies have, making
19 it available. The National Committee created a
20 work group on data access and use, and that's
21 yet another area that we're working and
22 advising the Secretary on.

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1 We hold quarterly meetings, convene
2 public hearings, listening sessions,
3 workshops, and other roundtables, and other
4 mechanisms to gather the information that we
5 need in order to make an assessment and identify
6 themes and issues, and then make
7 recommendations to the Secretary.

8 Some of the recent notable
9 activities, in the early 2000s, actually the
10 National Committee was tasked to provide some
11 visionary ideas about the direction of the
12 Health Statics systems in the country, and we
13 contributed to the 21st Century Vision for
14 Health Statistics report published by NCHS. We
15 also in that early 2000 had the --- well, HHS
16 asked us to think about this whole concept of
17 health information exchange, and the new notion
18 that those early 2000 years of the development
19 of a nationwide health information
20 infrastructure, and health information
21 network. And we actually made a number of
22 recommendations that ultimately led in great

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1 respect to the creation of the --- what's known
2 today, of course, as the Office of the National
3 Coordinator for Health Information Technology
4 that really drives this whole area in the field
5 of electronic health records, standards, and
6 health information exchanges.

7 In the population health, one of the
8 areas that we're working currently is
9 communities as alerting health system
10 framework, and we will be having actually a
11 two-day workshop on October, I believe it's the
12 27th and 28th, on this topic, advancing really
13 the community-level capabilities for using
14 health information and becoming an alerting
15 health system.

16 In the administrative
17 simplification arena we've been working for
18 over now 15 years providing oversight and
19 advice on the adoption of the standards related
20 to all these areas of administrative
21 simplification. We provide to the Congress an
22 annual HIPAA report informing Congress the

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1 status of development and implementation, and
2 achievement of simplification in the
3 administrative arena.

4 Privacy and security, we have
5 developed a national stewardship framework for
6 health information privacy, sort of a
7 high-level framework of the --- importance
8 certainly of stewardship, and collecting, and
9 maintaining, and using health information.

10 And this is a pictorial view, if you
11 will, a diagram that shows some of the key
12 elements of this vision that we had and provided
13 as part of the development of the 21st Century
14 Health Statistics report. Integrating really
15 all the different domains and areas that we work
16 with from community attributes to the
17 contextual elements where the individual leads
18 in the population operates, and the place and
19 the time.

20 All right. Let me turn now to talk
21 a little bit about the public health
22 information exchange standards. So, as I was

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1 saying, you know, one of the areas that we focus
2 significantly on is really standards, but
3 standards from the perspective of information
4 exchange, and the movement of information. So,
5 this is a collection of standards that support
6 the electronic exchange of information between
7 systems, between organizations.

8 And in the case of public health,
9 it's certainly between public health agencies
10 and the entity that provide and exchange data
11 with public health. Nowadays, of course, we're
12 talking more and more about multi, not just
13 unidirectional exchanges, or submission of
14 data, but bidirectional exchanges of
15 information, and ultimately multidirectional
16 exchanges of information to fulfill public
17 health functions, core public health
18 functions. And we're very pleased to see that
19 a number of things have been now incorporated
20 and adopted in the Meaningful Use program that
21 requires health care organizations that are
22 implementing electronic health records to

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1 start to support public health information
2 exchanges.

3 We're pleased to see that. We, of
4 course, understand that public health is one of
5 the areas and domains that health care
6 organizations have to deal with in terms of
7 collecting and exchanging information. And
8 certainly, ultimately, the electronic health
9 record primary purpose is to be able to deliver
10 high-quality health care to individuals, and
11 the exchange of information between electronic
12 health records is made to support that type of
13 quality health care services, and coordination
14 of care, and transitions of care, and all these
15 new concepts, some new concepts that really
16 create a benefit of having exchange of
17 information between systems that, you know,
18 interoperate will improve that.

19 Certainly, with public health there
20 is that goal, as well, of being able to exchange
21 information directly from the electronic
22 health record into public health systems, and

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1 again receive back information.

2 There's certainly many public
3 health data sources, medical data is one of
4 them. The information collected on individuals
5 at the point of care, the departmental data
6 collected from many different sources, survey
7 data you talked about, there's certainly a
8 laboratory that all this different sources of
9 information that is captured and collected by
10 different entities, and that is of importance
11 to public health.

12 The other aspect is the public
13 health information infrastructure, and this is
14 one area that we really focus on in our letter.
15 I mean, certainly there's been a long history
16 of the evolution, if you will, of the
17 development of a public health information
18 infrastructure going all the way back to the
19 1890 census, and there's a number of
20 developments, of course, since then in the
21 development of an infrastructure for public
22 health, and for public health systems, for

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1 public health agencies, et cetera.

2 What we have seen, certainly, and
3 that is one of the findings and areas of
4 recommendation is that we are still a long ways
5 in achieving really a fully functional
6 information infrastructure that truly
7 interoperates. Not different from the clinical
8 world where we also have that, and that is
9 really the main focus of this major initiative
10 that we embarked, you know, in 2010 with the
11 High Tech Act and the Meaningful Use program.
12 The significant investment that has been made
13 in this country over \$27 billion in insuring
14 that electronic health records are adopted, use
15 meaningfully, and used to exchange data has
16 been incredible. Certainly, the challenge is
17 the risk of creating by virtue of developing so
18 rapidly this infrastructure in the clinical
19 world, creating some technology, if you will,
20 and ultimately digital divide, if you will,
21 between that level of development in the
22 electronic health record side and clinical

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1 world with other very critical parts, like
2 public health. So, that's one of the big
3 concerns that we try to express in our letter.

4 Let's see. There's certainly
5 databases and data integration, and this is
6 part of the challenges that we certainly have
7 heard and have been expressed in many different
8 arenas, the state having separate systems,
9 having developed separate systems for separate
10 different purposes, from separate different
11 funding sources. Many of those funding sources
12 not necessarily, you know, long term
13 sustainable, and so creating all this, you
14 know, certainly silos and different levels of
15 capabilities and developing, and support.

16 So, back in 2002, Chris Chute from
17 Mayo, and Denise Koo wrote this statement that
18 one of the serious shortcomings of these
19 systems is the lack of horizontal integration,
20 and the fact that ultimately data cannot be
21 exchanged, linked, or merged across programs.
22 And it seems like since 2002, over 12 years ago

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1 now, the statement still seems to, you know,
2 have some validity.

3 And what's interesting is in many
4 ways this also again happens in the clinical
5 world. And I think what we are seeing,
6 certainly, is a lot more development in the
7 clinical world to try to improve and avoid this
8 type of inability or lack of easy, you know,
9 integration of the data, but that also is a
10 challenge, of course, in the public health
11 field.

12 Now, you know, with respect to the
13 systems, EHRs and administrative systems are
14 sort of the --- so two, not all of them, but just
15 two, and probably the two most significant
16 sources of exchange of information with public
17 health. And when we say electronic health
18 record system, we're really talking about a
19 larger scope of electronic health record
20 system, not just the clinical system, but also
21 the laboratory health information system, the
22 pharmacy health information system, the

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1 information systems used in imaging and
2 radiology labs, and others. So, it's really
3 much more comprehensive than what we have, you
4 know, in the regulatory arena what an EHR means.

5 But in reality, you know, all these
6 three areas interact and are there places where
7 there's a lot more opportunity to insure an
8 efficient exchange of information,
9 particularly with public health, and again in
10 a multidirectional mode.

11 Now, just getting a little more into
12 the standard development side. You know,
13 there's been a lot of activities, and there's
14 actually a saying in the health care
15 information standard world that the good news
16 is we have a lot of standards. The bad news is
17 we have a lot of standards, and you can choose
18 from them. And then we have --- we used to have
19 actually in the administrative world something
20 that we thought was a standard for exchanging
21 a basic element of business process, the health
22 care claim.

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1 We had a standard adopted under
2 HIPAA back in 2003, and it was supposed to be
3 the standard, and everybody agreed that that
4 would be the standard, and we ended up having
5 at least 4,000 different flavors, that's what
6 we call, to that standard. So, every in this
7 case exchange was between a provider and a payer
8 exchanging claims. Every payer would say well,
9 this is perfect standard. I see it, but I'm
10 going to write a description of what I interpret
11 to be what needs to go into the standard,
12 because the standard had a lot of optionality,
13 and situational elements, and ability, you
14 know, to interpret. And when you standards that
15 allow you to interpret things, well you have,
16 you know, 10, or a thousand, or thousands of
17 different interpretations, and that's what
18 ended up happening.

19 In 2012, we moved to the next
20 version of the standard, reduced the
21 optionality, and interpretability, if you
22 will, if you permit me to use that word, to by

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1 at least 85 percent. And we are seeing now a lot
2 more consistency and reducing the level of,
3 again, interpretation and variability in the
4 adoption of that standard.

5 Similarly, in the clinical world
6 we're seeing the standard being adopted, and
7 that have been adopted in Meaningful Use for the
8 exchange of clinical information, not just
9 with, you know, between clinicians but with
10 other partners, that there is a lot of
11 optionality, and it's creating again a barrier
12 for interoperability, because I can have the
13 best electronic health record system in my
14 organization, but when it comes to generating
15 a message that will go out, I generate it based
16 on my own interpretation of the standard, and
17 the entity receiving it will have to decode that
18 in some way. So, it creates a challenge, a
19 barrier, if you will, for that true full
20 interoperability.

21 When we talk about standard, we talk
22 about really standard that defines the message,

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1 structure, the format, the quantum, the
2 quoting, the vocabulary and terminology that
3 goes inside, the transport mechanism, the
4 electronic message transport mechanism, the
5 security elements, and other elements. All
6 those are the way in which we're going to
7 exchange this information electronically,
8 certainly so that the recipient can actually
9 open it, and receive it, and process it.

10 Now, there's an interesting
11 transition that we are all going through with
12 the standards, too. You know, in the paper world
13 you have a paper with the text in it, and someone
14 has to read it, actually. Then you move to the
15 fax system, and the fax system is nothing more
16 than a faster way to move paper, basically, to
17 get it from Point A to Point B. But at the other
18 end, someone still has to see it, pick up the
19 fax, and see it, and review it, and interpret.

20 The standards for electronic
21 message allow you to include a print image, if
22 you will, of that type of same text, or for

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1 example a lab result. And when you send that
2 message, you are not doing more than what a fax
3 machine would do, which is sending a electronic
4 message but inside that is not a structure
5 message, it's what we call unstructure message.
6 It's a print image, and so the recipient will
7 still have to --- the system, even if you have
8 the best electronic health record system will
9 have to open it, and someone has to actually see
10 it, and would not be processable in a automated
11 way. What we are trying to move to is the
12 ultimate level really of development which is
13 100 percent codified system, message in which
14 every element in the message has a very well
15 defined code. It's a structure message that can
16 be received by the recipient and the system will
17 open the message and execute it through
18 electronic algorithms and the computer
19 systems. And actually through mechanisms like
20 clinical decision support be able to conduct
21 some automated executable actions.

22 So, that's the ultimate goal. I

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1 think we're still, as we all would say, this is
2 really a journey more than a destination. We
3 have to keep working on it, and keep trying to
4 get to that level.

5 Apply to various health information
6 exchange made between public health and
7 external entities, and again moving from
8 unidirectional to bidirectional, and
9 ultimately multidirectional area.

10 Now, in public health certainly,
11 you know, every instance where --- and we know
12 public health just like clinical care is a very
13 information-intensive sector, every instance
14 where there's an exchange of information from
15 public health and between public health and
16 other entities, there is going to be an
17 opportunity to use an electronic mechanism to
18 exchange that information, and certainly a
19 standard to do it.

20 So, here are some of the areas where
21 there's been development, and certainly
22 significant development in standards adoption,

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1 vital statistics, someone was mentioning
2 earlier the adoption of electronic birth record
3 systems, and electronic death record systems.
4 Interestingly enough, we are as a country not
5 necessarily fully in that space yet, although
6 we are moving quite fast to adopt those
7 standards.

8 Immunization data certainly is one
9 area where there's a lot of standards
10 development, standards implementation,
11 immunization registry systems across the
12 country are using standardized messaging to
13 allow providers to submit data to the registry
14 about an immunization update or record, and
15 then receive back, actually query and receive
16 back immunization data.

17 Public health labs I mentioned.
18 There are some areas where we're still very
19 early in the process, particularly bio
20 surveillance reporting, and public health case
21 reporting. We really are at the early stages of
22 development and implementation of some

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1 electronic standards for the collection of
2 public health case reporting.

3 Now, another area that is important
4 to mention is --- it's not only about the
5 exchange of the message, it's also about the
6 ability for the provider to be alerted by the
7 system that there is a case, if you will, or a
8 situation that needs to be reported. And that
9 type of clinical decisions before rules are an
10 area that is I think a very significant area for
11 work in the public health arena along with the
12 clinical sector.

13 I think there is
14 significant work being done in this area to try
15 to get immunization registry systems, for
16 example, to send back immunization and
17 vaccination support rules, your clinical
18 support rules, to the providers, so that the
19 providers can actually be alerted about a
20 particular vaccination requirement.

21 So there is a lot of, you know,
22 closer interaction, you know, between

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1 certainly clinical care and public health.

2 Now, a lot of organizations, just
3 like there is a lot of standards, there is a lot
4 of standards organizations that are developing
5 those standards. On the left, you see most of
6 the largest national and international
7 standards development organizations, Health
8 Level 7, HL7. Some of you might have heard of
9 that organization; it's the one that develops
10 most of the clinical types -- standards for
11 exchange of information.

12 X12 is the one that developed the
13 administrative standards for exchange of
14 information. NCPDP, the pharmacy standards,
15 an organization called IHE, Integrating the
16 Healthcare Enterprise, developed the profile
17 for a lot of the messaging that happens between
18 providers that use these standards.

19 There is a lot of coding and code
20 sets that have been developed. IHTSDO at the
21 top developed something called SNOMED that is
22 used in clinical care of course for codifying

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1 the terminology system that allows the
2 codification of a lot of the clinical text that
3 we, as physicians and clinicians, type into our
4 records.

5 ICD-10, of course, the national and
6 international standards for federal
7 classification, are its norm for the pharmacy
8 area. The American Medical Association and
9 the Dental Association have current provider or
10 procedural terminology and dental terminology.
11 So there is a lot of this standard.

12 The good thing is there has been a
13 lot of conversions in the standards, and now
14 basically there is a relatively limited number
15 of those. And here is -- from the Office of the
16 National Coordinator, this is the set of
17 standards that have been adopted. At the top
18 you can see, in terms of vocabulary standards,
19 primarily these four are the core standard
20 vocabularies and terminologies adopted --
21 SNOMED, LOINC, ICD-10, and RxNorm.

22 You can see from the content

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1 structure there is a very, you know, limited
2 number of standards being adopted for a
3 specific purpose, and you can see lab standards
4 being specifically noted as a standard for the
5 content structure.

6 And then, there is the transport,
7 the security, and other areas for ensuring the
8 exchange of that information.

9 Okay. A lot of public health
10 partner organizations have been working on the
11 development of standards. And as I point in
12 the next slide, I think some of the challenges
13 that we see still are the level and the degree
14 to which public health is able to participate
15 in a lot of this development of standards.
16 But, you know, all of these organizations have
17 been very active.

18 A lot of them have joined and formed
19 the one that is here in the center, JPHIT, the
20 Joint Public Health Informatics Taskforce,
21 which is an organization that primarily advises
22 the industry and collects input from public

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1 health in the area of standards for public
2 health exchanges.

3 Some of the challenges for public
4 health data standards adoption, I think that
5 they need to move towards a more consistent
6 standards-based data collection and reporting
7 system from clinical systems to public health.
8 I think a lot of the issues are really, in the
9 clinical care arena, unless the data that is
10 needed is for public health purposes, it's in
11 the electronic health records system and it's
12 included as part of the requirement of an
13 electronic health records system, there is
14 going to be difficulty in collecting that data
15 and reporting it electronically. Of course,
16 for public health you have to create specific
17 collection systems.

18 The other part is really the
19 internal workflows within the health care
20 organizations that will need to be built in
21 order to create the collection mechanism and
22 the submission of the data to public health.

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1 There is really limited local,
2 state, and federal participation in standard
3 development activities, although there is more
4 coming, but this is one of the areas we wanted
5 to highlight in our letter. Funding
6 limitations to test standards that have been
7 developed and to support EHR initiatives that
8 include public health requirements is another
9 challenge.

10 Really, even though it has been part
11 of meaningful use, it is a relatively small
12 component of meaningful use public health.
13 And so so far we have three or four areas where
14 public health is being included in meaningful
15 use, but there is a lot of more expectations and
16 need, really, to create exchanges between
17 clinical care and public health, whether it's
18 through meaningful use requirements or by
19 virtue of basically creating the expectation
20 that having an electronic health record system
21 allows entities to exchange data with public
22 health, all their data, not just the ones that

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1 are mandated, if you will, under meaningful
2 use.

3 Not all of the data certainly is --
4 that is needed in public health exists in a
5 single data source or in an electronic health
6 record. There is a lot of other data that has
7 to be certainly collected. And some of it can
8 be added to the electronic health record; some
9 of it probably will not be part of an electronic
10 health record. So that's an acknowledgement
11 of a reality.

12 Not all of the data is also in
13 electronic format. A lot of the data is on
14 unstructured collection mechanisms and paper
15 form still or printed forms not processable
16 unless you have a data entry system.

17 And then, certainly this is
18 something that requires long-time commitment.
19 It is not a one-time quick-fix type of a thing.

20 All right. So let me finish up with
21 the recommendations from the National
22 Committee. So the National Committee held

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1 hearings in 2013 focusing on the state of public
2 health information systems and standards being
3 used in public health. The hearings engage
4 representatives from all the major public
5 health professional organizations and
6 associations and clinicians and others.

7 And it was really intended to -- in
8 addition to understanding where things are and
9 what things can be done, really create an
10 awareness of the need to advance this whole
11 concept of a public health information system
12 across the nation.

13 So it provided us an overview of the
14 state of affairs, a series of themes and
15 observations, and in this letter that's what we
16 highlighted.

17 Some of the themes were basically
18 highlighting these five bullets here. First
19 of all, the nationwide public health
20 information infrastructure really needs
21 significant attention and sustained
22 investment. That was our key theme, if you

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1 will. Even before we get into the -- what is
2 the right standard for what is -- what method,
3 we needed to highlight and step back and say,
4 "We need, really, a very significant attention
5 and sustained investment in the public health
6 information infrastructure in the country."

7 The opportunity to identify and
8 optimize common infrastructures, data analytic
9 capabilities, and to avoid costly duplications
10 was another area. We heard from professional
11 associations, NACCHO and ACHL and ASTHO and
12 others, that there is work being done to try to
13 identify technology capabilities that can be
14 shared across public health agencies, rather
15 than each -- you know, each one of the
16 3,000-plus public health agencies having to
17 reinvent technology or acquire technology
18 having some common shared resources.

19 You know, and you all have heard, of
20 course, about the cloud and about the type of
21 services that are shared through cloud-based
22 services. A lot of opportunities around that

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1 coming to public health as well.

2 Need to establish a proper
3 incentive for the adoption and implementation
4 of public health standards, not just by public
5 health agencies but by entities like provider
6 groups and health plans need to implement a
7 level of maturity and adoptability of standards
8 for public health applications, and then they
9 need to increase workforce informatics,
10 competencies.

11 And so those were our themes. I'm
12 going to be very brief around the
13 recommendations. I know you have a copy of our
14 letter, and I wanted to leave some time
15 certainly for questions and for any ideas about
16 how to move this forward, too.

17 Our main recommendations were
18 around the -- first of all, this concept of
19 having HHS develop and implement a new National
20 Public Health Information Infrastructure
21 Strategic Initiative. At some point, we
22 compared this with we need a meaningful

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1 use-type program for public health, not
2 necessarily, you know, the kind of incentives
3 and then penalty-type things, but some sort of
4 a concerted effort to invest in public health
5 information infrastructure. And that's what
6 we made as our first recommendation.

7 Our second recommendation was
8 around the creation of a dedicated fund, a
9 Public Health Information Infrastructure
10 Dedicated Fund. Again, at some point, we
11 called it a Public Health Information
12 Infrastructure Trust Fund, but the word "trust
13 fund" seemed to create some political
14 implications to it. So we changed the word
15 "trust" to the Dedicated Fund.

16 But, clearly, the idea was to have
17 HHS and to have the Secretary develop a
18 strategy, a funding strategy that supports the
19 first, you know, recommendation about a
20 National Public Health Information
21 Infrastructure Strategic Initiative.

22 So this fund will certainly support

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1 the improvement of the information
2 infrastructure capabilities across the nation,
3 support public health information --
4 informatics standards adoption and use, look at
5 where are the gaps in terms of the adoption of
6 standards and the capability, information
7 technology capability.

8 So the third recommendation --
9 well, we had actually a corollary to the
10 recommendation, 2.1, leverage the Public
11 Health Information Infrastructure Dedicated
12 Trust Fund to provide continuous quality
13 improvement for public health information
14 systems, promote the development of sustained
15 informatics skill, and then the standard
16 development and adoption.

17 Our third recommendation was the
18 creation or establishment of a National Public
19 Health Informatics Standards Collaboration
20 Initiative, again, bringing together all the
21 parties into a collaboration initiative that
22 will help really accelerate the adoption and

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1 use of the standards in public health and will
2 serve sort of as the focal point for leveraging
3 the investments that will need to be done in
4 support of public health information
5 infrastructure.

6 So this collaborative initiative,
7 we have some models and we actually have some
8 organizations that have already been
9 identified as possible places where this
10 collaborative initiative could start.

11 Our fourth recommendation was about
12 leveraging different policy programs and
13 initiatives, such as the Affordable Care Act,
14 meaningful use, to align the incentives for
15 adopting and using public health standards and
16 stimulating vendor engagement in the adoption
17 of these standards, ensuring public health data
18 requirements are incorporated into the
19 standards, and certainly, you know, helping
20 support public health involvement in the
21 standards development and maintenance arena.

22 And then, the last recommendation

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1 was about establishing a -- or developing a new
2 national strategy for public health
3 informatics capacity-building. Certainly,
4 without the right trained workforce, all of
5 this having infrastructure and having
6 standards will not be sufficient. I mean, it
7 will not happen. So we need a very
8 well-trained informatics workforce in public
9 health informatics, and so we thought it was
10 very important to highlight this as a core
11 recommendation.

12 So I'm going to stop here. Thank
13 you, again, so much for the opportunity. I
14 look forward to continuing our dialogue.
15 Certainly, I have to say that I think there is
16 a lot of area for cross-collaboration and
17 continued dialogue and communication, and
18 certainly the opportunity to have the
19 recommendations be supported by an advisory
20 committee like yours will be very, very
21 valuable.

22 So thank you so much again.

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1 CHAIR BOCCHINI: Dr. Suarez, thank
2 you very much for your presentation. Clearly,
3 the benefits of the goals that you have outlined
4 for us are significant.

5 So questions, comments, from the
6 committee or the (inaudible)? Steve?

7 DR. McDONOUGH: Thank you for your
8 presentation. A couple of years ago this
9 committee had recommended that, on a request I
10 think from the Public Health Labs, that the
11 national birth certificate include a field to
12 link the newborn blood spot, and it would --
13 collaborative cooperation and
14 information-sharing. And that was not
15 approved by the Secretary. I think one of the
16 reasons was is that the national birth
17 certificate -- once every 10 years, and between
18 10 years it can't change.

19 Do you have insight if that is
20 changing, if the birth certificate is so
21 inflexible that it can't -- you know, will there
22 be decades that it can actually change, or do

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1 you have any knowledge about that?

2 DR. SUAREZ: Well, yes. I think it
3 is one of the areas that the National Committee
4 would want to come back and look into. We
5 believe that there is the national birth
6 certificate data set, and then there is the
7 electronic standard that translates that. And
8 we believe that there is an ability to really
9 have the electronic standard, which is an
10 expression, really, of data sets to allow for
11 the inclusion of elements, such as the one that
12 you mentioned, without creating any disruption
13 in the structure of the national birth
14 certificate itself.

15 So I think the -- that is, I think,
16 where we are going to be looking at moving. I
17 don't have any dates or any timeframes for when
18 the next version or the next iteration of the
19 national birth certificate will be issued, but
20 it is certainly one of the areas that we will
21 be looking at in -- basically in the next -- I
22 think we have it in the schedule for the next

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1 year at least.

2 PARTICIPANT: Thank you, again,
3 Dr. Suarez. Any sense on -- or any response so
4 far from the Secretary's office? And a related
5 question would be sort of, how do you feel like
6 this request is -- fits in with the work of the
7 Office of National Coordinator? Are they
8 supportive of the idea, or does it feel like a
9 very separate thing from what they are used to
10 doing?

11 DR. SUAREZ: Well, we have received
12 work, really, that this has been very well
13 received by the leadership of HHS. In
14 preparing the letter, we had the transition of
15 our Secretary. We actually had the letter
16 written for the former Secretary Sebelius, and
17 we had to change, actually, the header in the
18 last minute, literally, because the letter was
19 coming out a few days before or after the new
20 Secretary Burwell was coming into office.

21 We have, again, heard from
22 leadership at HHS that this was very, very well

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1 received. A lot of the work that we do at the
2 National Committee, and in fact the National
3 Committee itself, is supported by the -- by
4 ASPE, the HHS Assistant Secretary for Planning
5 and Evaluation. And that is the arm of HHS that
6 sort of leads some of these advances, if you
7 will, in information infrastructure and
8 information technology.

9 And so we heard from them that it has
10 been very well received, that they are
11 exploring how to operationalize the five
12 recommendations, and they are actually looking
13 for feedback and further I guess
14 recommendations on how to specifically
15 operationalize them. So from that perspective
16 I think we are very well positioned with this
17 Secretary.

18 With respect to the Office of
19 National Coordination, we also had a transition
20 of National Coordinators recently, and Karen
21 DeSalvo, who joined the office a few months ago,
22 she actually, as you all probably heard or know,

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1 comes from the public health arena. She is the
2 former Commissioner of Health in Louisiana and
3 -- or Secretary of Health in Louisiana.

4 And so she actually -- we presented
5 this about three weeks ago to her and
6 highlighted the significance, and very, very
7 supportive of this idea as well. So I don't
8 think there is any doubt that this type of
9 recommendations are going to elicit a lot more
10 specific operational implementation ideas on
11 how to move it forward. So I think we have,
12 both from the leadership of HHS and ONC, a lot
13 of support.

14 CHAIR BOCCHINI: Comments at the
15 microphone, if you'd give your name and then the
16 comment.

17 MR. OSTRANDER: This is Robert
18 Ostrander, New York State Academy of Family
19 Physicians, and I had a comment and a question.
20 First, the comment is I would not put too much
21 hope in meaningful use as a lever for this going
22 forward, because you are going to see a huge

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1 falloff in meaningful use participation.

2 We've had a great initial response
3 to it, but the current next level standards are
4 so difficult that a lot of -- there is a lot of
5 pushback. A lot of practices can't and won't
6 do it, and the audit process they put in place
7 is incredibly punitive. And, basically, they
8 take away your funding if you're not -- if
9 you're 99.9 percent compliant, but not 100,
10 they take away all of your funding. So I think
11 you're going to see a huge falloff, and maybe
12 you could also just advocate for a more
13 user-friendly process, and putting whatever
14 you want done in meaningful use through pilots
15 first.

16 My question is, is there any thought
17 of doing some of this information-sharing in a
18 two-way approach? In primary care right now,
19 we are seeing more and more -- within our
20 practices we are looking at just what you all
21 want, and what I think is a wonderful thing,
22 which is public health and population

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1 management.

2 And it would be tremendously
3 helpful if there was a way to send some of the
4 information back. You know, you tag it with
5 the primary care doctor's name, and here is your
6 list of patients with missing screening tests.
7 Here is your list of patients who will be
8 approaching -- due for the new -- for the next
9 vaccine.

10 Here is a list of patients with this
11 new recommendation that we have moved -- you
12 know, "You've got to move (inaudible) down to
13 50 years old; this is your list of patients."
14 It would allow us to do a lot better work with
15 our patients. And if you could do this, it
16 would -- that would incentivize us tremendously
17 to want to participate in something like this.

18 Obviously, two -- establishing
19 two-way streets, on the one hand it's a lot more
20 work on the front end. I would hate to have it
21 torpedo your efforts. But on the other hand,
22 it probably would be more effective and easier

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1 to do it at the front end than to do the sort
2 of add-on an addition in a year or two when it's
3 going to be clunky.

4 So any thoughts of setting up a
5 two-way --

6 DR. SUAREZ: Yes.

7 MR. OSTRANDER: -- registry for
8 public health exchange with -- actually, with
9 boots-on-the-ground docs?

10 DR. SUAREZ: Thank you. Thank you
11 for that comment and question. Very quickly on
12 the comment, yes, I totally agree. I think
13 meaningful use is one lever that might not
14 actually be too much of a lever into the near
15 future. And we included it as a recommendation
16 just because it is still an important program
17 certainly and will continue to be, but we do not
18 believe that everything should be put in one
19 single basket, if you will, in terms of that.

20 With respect to the population
21 health management, absolutely, I think that is
22 -- there is a great opportunity, and I think in

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1 my view population health management is the
2 next major transformational activity in the
3 country. I think organizations, and speaking
4 for Kaiser Permanente, organizations that have
5 systems that collect information and have the
6 ability to extract and do mining and data
7 analytics in a way that allows population
8 health management are going to be critically
9 important in achieving, ultimately, the goals
10 that we have in health. And the ability to
11 transfer that type of capability to other
12 organizations is also going to be critical.

13 So I think building registries and
14 using registries to support that type of
15 population health management and capabilities
16 is one way I think it's going to be very
17 important to both create the capabilities
18 inside the EHR system, which is something that
19 we at least have done, and others -- Mayo Clinic
20 and others have done, and then creating the
21 discipline to have the analytic capabilities to
22 extract data, analyze, mine the data, and then,

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1 like we do in our practices, every week, every
2 morning basically, the system brings up
3 specific population health needs of groups with
4 respect to diabetes prevention or asthma or
5 other things.

6 Those are the kind of things that I
7 think the future EHR systems are going to have
8 to have and build -- be built to support. So
9 it's a combination of the EHR system and the
10 internal systems being able to do mining and
11 using data, and then interacting with
12 registries externally, public health
13 registries. I think that's going to be very
14 good.

15 Yes?

16 DR. FINITZO: Hi. Terese Finitzo
17 with OZ Systems. Walter and I have worked
18 together for a lot of years. Sometimes it's
19 hard for folks on this committee, including me,
20 to see the forest for the trees, because this
21 committee addresses life and death issues.

22 And so with that in our focus, don't

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1 bother me with an information system and
2 standards that don't appear to be really
3 standard. So I think what we can do, however,
4 is to perhaps decide what our biggest ping
5 points are, and they should be those that hinder
6 our capacity and capability to achieve best
7 practices for our babies.

8 Screening is still overwhelmingly
9 lab-based, but there is a lot that must happen
10 at the point of care with these EHRs. I think
11 what we can do is explore how to tie into
12 existing public health standards and existing
13 efforts, and I mentioned them yesterday -- the
14 Office of Population Health, HRSA's OPH, CDC's
15 National Center for Health Statistics, and
16 certainly CDC's National Center for Birth
17 Defects and Developmental Disabilities with
18 the EDHI Program.

19 They are using some standards that
20 might make sense to us. So I think what we
21 could do is to take a look at how to leverage
22 what has been done, so that we don't have to

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1 spend a lot of time recreating things, and we
2 can keep our focus on those babies. So that's
3 what I would suggest as we move forward.

4 Thank you.

5 DR. SUAREZ: Thank you.

6 DR. ZUCKERMAN: I am Dr. Alan
7 Zuckerman from Georgetown University. But I
8 have addressed the -- this committee on several
9 occasions both before and after our -- on these
10 very issues, along with many people, including
11 Clem McDonald, who is standing behind me, from
12 National Library of Medicine.

13 At the -- and I think it's important
14 for this committee to both join in with the
15 recommendations and continue to work with other
16 groups. And as part of that, we should remind
17 the Secretary that the newborn screening formal
18 use case was one of the initial activities in
19 the NHII that over the years, in preparation for
20 meaningful use, we did work to develop
21 standards and vocabulary, but we have also
22 learned how difficult it has been for newborn

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1 screening programs and for hospitals who need
2 to receive the data to adopt those standards.

3 We also worked to get newborn
4 screening electronic quality measures into
5 meaningful use. But another important role
6 for this committee is to remind people that
7 newborn screening is both a laboratory activity
8 -- practices have caught up and are finally
9 ready to begin communicating effectively with
10 public health.

11 Thank you.

12 MR. McDONALD: I'm Clem McDonald
13 from the National Library of Medicine and have
14 actually been involved with this committee and
15 lots of committees the last 30 years or so. But
16 what I want to -- I want to reemphasize that this
17 committee supported the standard for newborn
18 screening, which uses conventional existing
19 HL7 standards and conventional billing codes,
20 and is being used and adopted by some states.

21 And if we keep talking about
22 brand-new things, we'll never get anything

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1 done. We've got to maybe push on with some of
2 the things we've been talking about, too.

3 Regarding the public health, I am
4 very involved in the standards organization,
5 and I have -- maybe I shouldn't say all of this,
6 but I have some opinions.

7 (Laughter)

8 And so public health is involved
9 with the standard. I mean, they are -- not
10 every department, but there is a fair amount of
11 activity at HL7 from public health. In terms
12 of meaningful use, there is more public health
13 message requirement to public health than
14 anything to the clinician. A clinician has
15 just CDAs maybe, and so that you're not -- you
16 know, the poor child in this whole process
17 (inaudible) totally.

18 The second thing is, all we need is
19 a fourth, fifth, and sixth standard
20 organization, like you sort of alluded to. So
21 I'd be very worried about if this is another
22 czar, which just creates one more competing set

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1 of standards. And I wish that thing was stated
2 more to involve in the existing standard
3 organizations and shape them towards your needs
4 and goals.

5 And I fully support the need for
6 more support, dollar support, because the
7 biggest phenomenon we observed was public
8 health wants these standards; they can't even
9 adopt their own, because they are inadequate --
10 you know, they don't have the right money, they
11 don't have the right funding, the right
12 technology, the right people.

13 So I think the biggest -- biggest
14 weakness is to make more standards for public
15 health, but get some of the ones implemented
16 with the appropriate funding and support for
17 public health. That may not be a message
18 people want to hear, but that's the way it looks
19 to me.

20 CHAIR BOCCHINI: All right.
21 Carol, last comment, and then we'll --

22 DR. GREENE: I can't say that I

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1 understand the letter in detail, but there has
2 been a lot of talk about linking newborn
3 screening and birth certificates. And in the
4 sense that that will allow us to make sure that
5 every baby has been screened, or at least the
6 screening is -- the screening is offered within
7 the mandate of the state.

8 So I personally believe every baby
9 should be screened, and that there is no good
10 reason to object, but I recognize that some
11 states allow for objection.

12 With that said, newborn screening
13 and research around the data and making data
14 public is an extremely sensitive issue for
15 families, parents, and certain advocates. I
16 don't see myself personally a distinction
17 between the privacy of any information and the
18 newborn screening, but it is a terrible red flag
19 for many people, and attorneys general, and
20 state health departments.

21 And I think we need to give quite a
22 bit of attention to the issues of privacy,

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1 confidentiality, and how families are involved
2 before we start linking newborn screening with
3 birth certificates. You know, even something
4 as simple as the birth certificate is there,
5 there is no newborn screen, and a phone call
6 goes out to the family, we don't have a screen
7 on your baby and it could be a name change, but
8 it could be, "Why are you calling me? My baby
9 died."

10 So I think there is a lot of
11 attention that needs to be given to privacy,
12 family issues, attorneys general, before we
13 just move forward and link. That's not
14 necessarily directly related to the letter and
15 the goals of linking public health and EHRs, but
16 at least in the arena of newborn screening there
17 is a lot of sensitivity that should be taken
18 into account before anybody moves forward.

19 DR. SUAREZ: Thank you. Thank you
20 for that comment. We have our Privacy,
21 Confidentiality, and Security Subcommittee
22 looking into that level of issues of the

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1 implications for public health data linkages,
2 and I think that particular one is one that the
3 subcommittee has looked into. So thank you for
4 the comment.

5 CHAIR BOCCHINI: All of you have a
6 copy of the letter written by the National
7 Committee on Vital Health Statistics to the
8 Secretary and have heard the presentation and
9 comments.

10 And now that -- we can advise
11 whether to send a letter of support for these
12 recommendations to the Secretary citing the
13 importance of these changes -- for the
14 development -- our purview.

15 We don't need a formal vote. We
16 just need a -- this would be to support the
17 letter. It would be basically a
18 collaboration.

19 Is there any downside? Is there --
20 I don't -- there is no downside at all. Steve?

21 DR. McDONOUGH: I move that we
22 support the letter.

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1 CHAIR BOCCHINI: All right.

2 Second?

3 PARTICIPANT: Second.

4 CHAIR BOCCHINI: Okay. All in
5 favor, just aye. All right.

6 DR. SUAREZ: Thank you very much,
7 again, for inviting me.

8 CHAIR BOCCHINI: Thank you very
9 much. This will end the morning session. We
10 need to be back promptly at 1:00 p.m. to start
11 the afternoon session. Thank you all very
12 much.

1 CHAIR BOCCHINI: Kellie Kelm

2 DR. KELM: Here.

3 CHAIR BOCCHINI: Fred Lorey has
4 been on the telephone, but has not been able to
5 tell us that. Fred? And then, Joan Scott for
6 Michael Lu?

7 MS. SCOTT: Here.

8 CHAIR BOCCHINI: Steve McDonough?

9 DR. McDONOUGH: Here.

10 CHAIR BOCCHINI: Dieter Matern?

11 DR.. MATERN: Here.

12 CHAIR BOCCHINI: Melissa Parisi?

13 DR.. PARISI: Here.

14 CHAIR BOCCHINI: Alexis Thompson?
15 Cathy Wicklund?

16 MS. WICKLUND: Here.

17 CHAIR BOCCHINI: And Andrea
18 Williams was also on the phone but could not let
19 us know. Debi Sarkar is here.

20 MS. SARKAR: Here.

21 CHAIR BOCCHINI: Organizational
22 representatives. Freddie Chen?

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1 MR. CHEN: Here.

2 CHAIR BOCCHINI: Debbie Badawi?

3 DR. BADAWI: Here.

4 CHAIR BOCCHINI: (Inaudible.)

5 (Laughter)

6 Give me another three years and I'll
7 get it right every time.

8 CHAIR BOCCHINI: Susan Tanksley?

9 DR. TANKSLEY: Here.

10 PARTICIPANT: Kenneth
11 (inaudible).

12 PARTICIPANT: Here.

13 CHAIR BOCCHINI: Cate Walsh
14 Vockley?

15 MS. VOCKLEY: Here.

16 CHAIR BOCCHINI: Carol Greene?

17 DR. GREENE: Here.

18 CHAIR BOCCHINI: Fine. Thank you
19 all.

20 So at the last meeting when the
21 final product of the subcommittee for -- Lab
22 Standards and Procedures Subcommittee had

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1 presented its final report on succinylacetone
2 as primary marker to detect tyrosinemia Type 1,
3 and the committee approved that report, but
4 then the committee decided that they -- we
5 wanted to send a recommendation to the
6 Secretary regarding efforts to educate
7 stakeholders on the benefits outlined by the
8 report. This would be a way to try and make
9 more people aware of the standard and
10 promulgate it -- identify newborns with
11 tyrosinemia Type 1.

12 So we have put together this
13 recommendation for the committee to review,
14 discuss, and then approve. The Secretary of
15 Health and Human Services should facilitate a
16 national dialogue among federal and state
17 stakeholders on the benefits of measuring
18 succinylacetone in dried blood spots to improve
19 the specificity of newborn screening for
20 tyrosinemia Type 1, conditioned on the
21 recommended newborn screening panel.

22 DR. McDONOUGH: Mr. Chairman, I

1 move that the committee (inaudible).

2 CHAIR BOCCHINI: Okay. It has
3 been moved by Dr. McDonough. Is there a
4 second?

5 DR. THOMPSON: Second.

6 CHAIR BOCCHINI: Alexis Thompson.
7 Is there any discussion?

8 PARTICIPANT: Is the definition of
9 "stakeholders" obvious -- labs?

10 CHAIR BOCCHINI: Well, I think it
11 would be the labs, but also be the newborn
12 screening programs in each individual state
13 based on how decisions are made in each state.

14 (Pause)

15 I think it is. Is anybody else
16 concerned?

17 Okay. We will define the
18 stakeholders in the letter to the Secretary.
19 We will -- the recommendation, and then we'll
20 identify the specific stakeholders.

21 Any additional discussion? Okay.
22 So it has been moved and seconded, and now we

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1 have to prepare for a formal vote.

2 Okay. So I know Don doesn't always
3 like to be the first one alphabetically.

4 (Laughter)

5 MR. BAILEY: I'll save my --

6 CHAIR BOCCHINI: For more
7 controversial issues? Okay.

8 All right. So before we vote, are
9 there any members of the committee that have any
10 conflicts of interest that would need to have
11 them recuse themselves from the vote? If not,
12 then vote yes or no to accept this
13 recommendation. So Don Bailey?

14 DR. BAILEY: I vote yes.

15 CHAIR BOCCHINI: Jeff Botkin?

16 DR. BOTKIN: Yes.

17 CHAIR BOCCHINI: Coleen Boyle?

18 DR. BOYLE: Yes.

19 CHAIR BOCCHINI: Denise Dougherty?

20 DR. DOUGHERTY: Yes.

21 CHAIR BOCCHINI: (Inaudible) Klem?

22 Dr. KLEM: Yes.

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1 CHAIR BOCCHINI: Charlie Homer?

2 DR. HOMER: Yes.

3 CHAIR BOCCHINI: And we'll see if
4 we can get Fred's vote by (inaudible).

5 Joan Scott?

6 MS. SCOTT: Yes.

7 CHAIR BOCCHINI: Steven McDonough?

8 DR. McDONOUGH: Yes.

9 CHAIR BOCCHINI: Dieter Matern?

10 DR. MATERN: Given that there are
11 so many different methods out there, so I think
12 I --

13 CHAIR BOCCHINI: Melissa Parisi?

14 DR. PARISI: Yes.

15 CHAIR BOCCHINI: Alexis Thompson?

16 DR. THOMPSON: Yes.

17 CHAIR BOCCHINI: Cathy Wicklund?

18 MS. WICKLUND: Yes.

19 CHAIR BOCCHINI: All right. So
20 the outcome is unanimous for those who are here.

21 Next on the agenda is the
22 presentation by the Follow-up and Treatment

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1 Subcommittee. Charlie? It's up to you
2 whether you want to go up there, or we can move
3 the slides if you want to sit there. You just
4 tell Debi.

5 DR. HOMER: All right. So I'll try
6 to be brief. We had a robust conversation
7 yesterday at the committee meeting, and we've
8 had a number of previous phone calls --
9 everybody who was on the committee -- their
10 names quickly. I just wanted to review what
11 our charge is as a -- just remind everyone what
12 the charge is. That will become relevant.

13 Our committee was asked -- has been
14 asked to engage in a multi-step process that
15 identifies barriers to (inaudible)
16 implementation, short- and long-term
17 follow-up, develops recommendations to
18 overcome those barriers, and offers guidance on
19 the responsibility, who is responsible for
20 what.

21 Our overarching charge in the
22 (inaudible). We at the -- probably about two

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1 years ago, there were a number of priorities
2 that we explored. One was what's called
3 Priority C, a look at the real-world impact and
4 outcome of long-term follow-up, and we -- we
5 chose to focus on exploring, to the extent which
6 we can document improved outcomes, to determine
7 whether in fact newborn screening is achieving
8 the desired -- its intended purpose and --
9 evaluation of the impact of variability in
10 clinical care. So that was our general
11 concern.

12 That led to -- the next slide -- the
13 substantial work which this committee has
14 reviewed, which was the creation of a framework
15 to assess the outcomes of newborn screening,
16 whether we know whether we are achieving the
17 (inaudible).

18 And that paper, which was reviewed
19 and approved at this committee meeting, find
20 what the key outcomes are building on previous
21 work, previous papers the committee had done to
22 find the key outcomes, which were survival and

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1 well-being using the broadest definition of
2 "health," including measures of disparity.

3 And we identified four critical
4 drivers of those outcomes, including rapid and
5 reliable diagnosis, which -- with
6 evidence-based, with therapeutic and
7 rehabilitative care, the coordination and
8 integration of services, and then continuous
9 improvement in knowledge generation.

10 So we wrote -- we put that -- we
11 developed measures for each of those. We
12 crafted measures -- reflect those specifically
13 for sickle cell disease and PKU. The committee
14 has -- that paper is pretty much ready for
15 submission. We -- our team has been finalizing
16 that. We're in the process of getting final
17 approval.

18 So the question really is, given
19 that we have now set up the framework, how do
20 we move forward? What is our next step for that
21 framework?

22 At the last committee meeting, we

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1 discussed -- this committee approved the
2 activity to be undertaken by our subcommittee,
3 how -- further exploration of how to
4 operationalize the framework. And the thought
5 was that we would identify the extent to which
6 there exists, both in public health systems and
7 in clinical systems, and especially at the
8 interface between public health and clinical
9 systems, programs that are putting into place
10 or have put in various elements of that
11 framework; also, whether those programs not
12 only have the measurement framework in place
13 but are able to build -- to use that measurement
14 to improve care based on the data that they're
15 receiving.

16 So what we did yesterday was discuss
17 -- on the next slide -- how we could go about
18 doing that. And we came up with a number of
19 critical activities, some of which are
20 consistent with I think some of the other
21 practices that we've heard about here over the
22 last two days.

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1 One was we felt very strongly that
2 our committee needs to and should take
3 advantage of the great work of the regional
4 collaborative, particularly coordinating
5 effectively with their Long-Term Follow-Up
6 Committee, and also the close pulse that the
7 regional collaborators have on the activities
8 of the individual (inaudible).

9 We thought through that we could
10 clarify which states have long-term follow-up
11 systems in place, again, both to monitor and
12 improve long-term follow-up. Through work
13 with the regional collaboratives, we have
14 identified barriers to more widespread
15 implementation of such systems. And in
16 discussion yesterday we identified a number of
17 states which committee/subcommittee members
18 felt likely had significant elements in place,
19 such as Massachusetts, California, Michigan,
20 Indiana, New York, and Rhode Island.

21 For those states that we thought had
22 some elements in place, we wanted to identify

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1 what capacity those states had to implement the
2 framework, how they achieved what they did,
3 whether -- were there generalized lessons that
4 we might be able to apply elsewhere? So,
5 again, that question of how the capacity could
6 be extended elsewhere.

7 Then, we had a lot of rich
8 conversation that raised a number of points
9 that we're going to have to wrestle with. One
10 was, are we focusing on what already is in
11 place? How do we balance focusing on what is
12 already in place versus some of the enormous
13 potential for some of the things that are being
14 put in place? That tied to the conversation,
15 again, that was held in the full committee, how
16 do we connect to and accelerate the adoption of
17 the LPDR work that was discussed yesterday.
18 Thinking about clarifying over the next
19 (inaudible).

20 And then, just to highlight that
21 there were several additional concerns that
22 kept -- that have kept coming up in our

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1 committee's conversations that I wanted to at
2 least share with the broader committee, either
3 for your feedback or guidance or simply to let
4 you know these are things that are on our table.

5 One was, again, the framework that
6 that paper articulates is about, how do you use
7 measurement to drive improvement, that there is
8 ongoing concern expressed by significant
9 members of the committee that we not
10 exclusively focus on measurement, but remember
11 the purpose of measurement is for improvements
12 and better outcomes.

13 And one reason that I wanted to
14 start today's presentation with a reminder of
15 what our committee is tasked with, we have --
16 also, a number of strong voices on the committee
17 have highlighted that the broader charge of our
18 committee is to identify and address barriers
19 to long-term treatment, including the supply of
20 and access to appropriate care and expertise,
21 and that that not be -- whether that will be a
22 separate activity, either to follow on or in

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1 parallel, or whether we have a way of combining
2 that with the current effort, is something that
3 we need to --

4 So why don't I open it up, first, to
5 members of the subcommittee and see -- oh, we
6 should identify a workgroup that was going to
7 work specifically on this idea of identifying
8 promising states that framework they have in
9 place. And these are handwriting -- the list
10 of those who were on that workgroup, but there
11 may be others that -- there may be others that
12 I nominated that didn't know they were
13 nominated. There may be others that -- so we
14 will -- we can revise that.

15 But I do want to, I guess, throw this
16 open to the members of the subcommittee first
17 to clarify either errors of commission or
18 omission that I may have had in the -- Alan?

19 DR. ZUCKERMAN: Alan
20 Zuckerman from Georgetown University. I did
21 want to add that we did spend some time looking
22 at potential connections for the NCVHS letter

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1 on standards and the fact that it might provide
2 funding for implementation of standards and
3 funding of (inaudible), and, in particular, the
4 frustration that states have getting the
5 funding to get data entry and to capture data
6 entry once rather than to have duplicate and
7 triplicate entry of data for long-term
8 follow-up.

9 So hopefully we will continue to
10 look for ways to interface the REDCap database
11 that maintains the LPDR with the existing EHR
12 systems to decrease the working cost of getting
13 more complete funding. But we also tried to
14 focus that the framework is not about the
15 methods of data collection, but asking the
16 right questions, identifying what data
17 elements are worth collecting if we are going
18 to do this without sufficient funding to get
19 long-term follow-up at the point of care.

20 DR. GREENE: A lovely synopsis, and
21 of course for those couple of slides at the end
22 about what we want to not lose sight of. And

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1 I just wanted to point out that --
2 implementation of the framework, the framework
3 actually isn't published yet, so we can't
4 really check and see how states have
5 implemented it.

6 And so I think it perhaps might --
7 it's very nuanced, but perhaps more might be --
8 that with the framework in mind to look at what
9 states are doing, there was some discussion
10 about, you know, could states -- some of those
11 states might be willing to look at the
12 frameworks. So I don't think we want to ask
13 ourselves whether states have implemented
14 something that isn't published yet, but with
15 the framework in mind as a stepping off point,
16 what are states doing?

17 CHAIR BOCCHINI: Questions or
18 comments? Let's open this up to everyone.
19 Coleen?

20 DR. BOYLE: Yes. I have a couple
21 of thoughts on the framework. And it's too bad
22 everybody doesn't have it in front of them, but,

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1 you know, basically, it's the potential
2 measures to -- four drivers for long-term
3 follow-up to essentially evaluate, you know,
4 how -- how well we are -- and I was thinking
5 back, yes, this is (inaudible) two conditions,
6 sickle cell and PKU.

7 One thought I had was we have these
8 great (inaudible). You know, perhaps -- and
9 not that this committee would do this, but maybe
10 the key -- might want to recommend that
11 frameworks be developed for the other
12 (inaudible) newborn screenings (inaudible)
13 metrics for all of the conditions. So that's
14 one idea.

15 And then, another idea that I was
16 thinking was that maybe, again, just taking
17 sickle cell disease, I want to think about the
18 next steps here. Whatever our levers are to
19 try to institutionalize -- two or three key
20 performance measures across the life span --
21 maybe not the life span, but perhaps the
22 childhood life span of an individual -- think

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1 about. And I know there are performance
2 measures.

3 Whatever our levers are that try to,
4 you know, make these -- help influence the care
5 of children with sickle cell. Maybe that's a
6 next step for this. I think it's great work,
7 but I was just thinking that it would be nice
8 to have -- through it and perhaps do it in two
9 different (inaudible).

10 CHAIR BOCCHINI: Thank you. Marci?

11 DR. SONTAG: Marci Sontag from
12 NewSTEPS. I have -- for the long-term
13 follow-up piece, I wanted to remind the
14 committee of Beth Tarini's (work, which she
15 presented to this committee a year ago, on
16 long-term follow-up. She did a survey of the
17 states. It shows a lot of great data that are
18 really going to help inform the work that you
19 are doing.

20 So I -- Charlie, I will forward you
21 the slides that I just found from last year's
22 meeting, and then you can use that before you

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1 go out to the --

2 DR. THOMPSON: And I -- I think it
3 was a very vigorous conversation yesterday.
4 You know, but I must say, you know, especially
5 in the context of (inaudible) sickle cell as an
6 example, you know, it gave me pause, because I
7 think that on the one hand, yes, in principle,
8 the framework was meant to be developed and then
9 tested to determine whether or not it is
10 appropriate. And I don't think that we've
11 actually determined that at this point.

12 So the investment in time and effort
13 to look at it in other diseases, I wonder
14 whether or not we should take a few steps back
15 on that one, because again, you know, there are
16 lots of good reasons why the two examples that
17 were chosen will be very informative.

18 My concerns are that they are likely
19 to show that we are nowhere to actually
20 long-term follow-up, and that we need to sort
21 of just acknowledge that that is what we are
22 likely to find is -- that is, that we don't do

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1 a good job of long-term follow-up.

2 And so finding out what the answer
3 is for one or two conditions is likely to help
4 us. Before we venture down the path of saying,
5 "States, you should do this," I guess when we
6 started this it was not my impression that we
7 were looking at creating a framework and
8 telling states what they should do, by no means.

9 It was really just to understand, be
10 able to structure an environmental stance so
11 that we could really understand, really, where
12 our weaknesses are and then to look at what the
13 opportunities are across a very wide system or
14 in fact providing care for those (inaudible).

15 CHAIR BOCCHINI: And I think that's
16 a good point to bring back to the subcommittee,
17 to really decide -- to look at the effectiveness
18 of this, have something in place, fit this
19 framework in that to -- Carol?

20 DR. GREENE: Along the same lines,
21 the frame -- I'm pretty happy that the framework
22 is likely to work, but we never actually even

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1 -- I mean, when you read the framework that was
2 approved by the committee and is going to
3 publication, we didn't set any specific
4 measures or goals. So we said, "As an example,
5 a measure might be X number of babies diagnosed
6 by X day." And we didn't fill in the number, and
7 we didn't fill in the days, and that will be
8 disease-specific. It could be
9 state-specific.

10 So, and I think Charlie has in mind
11 that some of the things that we could do -- you
12 know, we have to give a synoptic summary. But
13 whatever the project might look like could
14 involve having states proceed as this
15 operationalizes. And I certainly --
16 personally, I agree we are not ready to try to
17 develop it in specific for other diseases. We
18 want to test the framework.

19 Personally, I also want to be sure
20 that as we are moving forward on the framework
21 we don't forget some of the -- you know, as we've
22 moving forward on improving the data

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1 collection, we don't forget that there is other
2 ways to work on access issues.

3 But, yeah, I think what Charlie
4 described has in mind what Alexis was just
5 talking about, that the framework is a big
6 picture, and we have to see, does it help states
7 understand what is going on.

8 CHAIR BOCCHINI: Questions?
9 Comments?

10 DR. GREENE: I haven't thought this
11 through completely, but seeing that with the
12 states makes me think that for some reason --
13 and I can't articulate it -- it might be good
14 to include some states that might not be
15 (inaudible) groups for quality improvement --

16 CHAIR BOCCHINI: Very helpful.
17 Thank you.

18 All right. Charlie, thank you very
19 much.

20 The next committee report is that of
21 the Education and Training Subcommittee, and
22 Cathy Wicklund will provide that.

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1 MS. WICKLUND: Thank you. I,
2 first, want to acknowledge all of the hard work
3 that Don Bailey had done on this committee
4 before I took over, and for giving me this
5 wonderful opportunity to lead the Education and
6 Training Committee. Thank you, Don. You're a
7 giver. You're a giver.

8 (Laughter)

9 So Beth and I -- I am the chair of
10 the -- the new chair of this committee, and Beth
11 Tarini has agreed, with blood, that she is
12 staying on as co-chair of the committee.

13 And so we had a pretty short agenda
14 -- next slide -- in the sense that we are
15 completing several of our priorities. So it
16 was really kind of, you know, providing updates
17 from individuals but also just kind of looking
18 at the final steps of the two priorities that
19 we have, and the one remaining, and then
20 spending some time thinking about things that
21 we can kind of tackle in the future.

22 So that's where our committee is at

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1 right now. Next slide?

2 So we have three different
3 priorities, and if you guys remember,
4 Priority A was to track, provide input on, and
5 facilitate integration of national education
6 and training in initiatives, and there is
7 further explanation of this.

8 And what -- actually, one of the --
9 next slide -- one of the initiatives that fell
10 underneath this priority was the initiative
11 that Beth presented at the last meeting, which
12 was to identify childhood conditions that could
13 be screened -- I guess the question was, could
14 these be screened for during childhood. And if
15 you guys recall, she did a nice summary looking
16 at -- we looked at Fragile X Syndrome, Wilson's,
17 and along Long QT. And she gave a summary about
18 those conditions and some of the findings that
19 we had.

20 So I'm not going to go through all
21 of that again, but basically the charge was to
22 identify heritable conditions that are not part

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1 of the RUSP for which screening and treatment
2 most likely would occur at a later point in
3 child development.

4 And this is also getting at the
5 issue that it's not just about newborn
6 screening, but it's about heritable disorders
7 in children as well.

8 The three conditions were chosen to
9 represent a variety of clinical
10 characteristics, including age of
11 preservation, age of diagnosis and clinical
12 morbidity, and so we went ahead and looked at
13 those conditions for which Beth reported back
14 on and -- next slide? And these were the six
15 questions that we asked for each condition.
16 And I'm not going to read through those again.
17 We've talked about them several times. Next
18 slide?

19 So after we presented this
20 information to the committee at the last
21 meeting, there was a request that we frame it
22 in a way in which highlights some of the

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1 barriers of doing population-based screening
2 for these childhood conditions at this time,
3 because the end result was that we really are
4 not in a position to do population-based
5 screening, and also looking kind of at like,
6 what is the role in -- of public health versus
7 the role of just having practice guidelines in
8 general.

9 And so Beth put together a two-page
10 summary of the findings, and that was given to
11 us yesterday at the committee meeting. So the
12 committee -- the subcommittee needs to kind of
13 further look at that and just make any edits or
14 modifications to that document, and then we
15 will be submitting that to the overall
16 committee to take a look at that. So that's
17 ongoing.

18 And we also had a discussion, then,
19 of what really to do with this work. So, you
20 know, we have this work that has been completed,
21 and is there something else that we should be
22 doing with it. So Don and Beth are going to

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1 discuss the possibility of writing a white
2 paper summarizing the work of this initiative,
3 and really discussing the role of public health
4 in childhood screening versus the role of
5 practice-based guidelines.

6 So that's going to be the next step,
7 and they are going to come back to us with what
8 they kind have decided about next steps in that
9 process.

10 Don, is there anything you wanted to
11 add to that?

12 DR. BAILEY: I think our goal would
13 be, you know, an article that I think we -- these
14 three conditions are very interesting, and what
15 we did I think will be useful and interesting
16 to the field. I think what we haven't done is
17 take each one of them and think very
18 specifically about (inaudible) of each in terms
19 of next steps or recommendations. And so this
20 would force us to do that, and then come back
21 to the committee with some (inaudible).

22 PARTICIPANT: So this is very nice.

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1 I'm just thinking from the health care delivery
2 perspective, and quality improvement, and all
3 of that, that the concept of practice
4 guidelines is a little narrow, because a lot of
5 other things (inaudible) evidence-based
6 preventive services is going on or should be
7 going on (inaudible) organization.

8 So practice guidelines is kind of a
9 way to get things going -- done from about or
10 10 or 15 or 20 years ago and broaden that
11 context. You're talking about the health care
12 delivery.

13 MS. WICKLUND: Right. And take
14 that with a grain of salt in writing down, but
15 I think Don and Beth are going to look more
16 broadly at that issue a little bit. But I think
17 that's an excellent point.

18 All right. Next slide. So
19 Priority B was really to promote newborn
20 screening awareness among public and
21 professionals. Complete. We're done, guys.

22 (Laughter)

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1 Everyone is aware. Our job here is
2 done. No, and I -- but let me say that the
3 initiative that fell under this priority is
4 complete. The priority itself will never be
5 complete, but the initiative itself, and that
6 was to support some of the ongoing efforts
7 through the CDC and different things that we
8 have completed.

9 So that -- we don't have any other
10 initiatives underneath that particular
11 priority at this time. Next slide?

12 And then the last priority was to
13 provide better guidance for advocacy groups and
14 others regarding the nomination and review
15 process. Next slide?

16 So there are two things that are
17 going on underneath this initiative, and one
18 was the public-friendly document of the
19 advisory committee's process for nominations.
20 And that was something that was also discussed
21 in collaboration with the Condition Review
22 Group.

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1 And so we have not started working
2 specifically on this initiative yet, because we
3 also want to recognize that, like Natasha with
4 the Genetic Alliance, and the Clearinghouse is
5 also working on this initiative. So, really,
6 at this point in time, we want -- and the
7 Clearinghouse just got awarded, like the other
8 day, Clearinghouse grants.

9 And so I -- our next steps really are
10 kind of wait to see what Genetic Alliance -- and
11 have further conversations with them, because
12 we certainly don't want to be repetitive in the
13 work that is being done by the Genetic Alliance,
14 and see how we can kind of support them in this
15 process. And, again, this remember was to
16 really give our advocates better guidance about
17 how to nominate conditions, what the committee
18 is looking for, what are frequently asked
19 questions about this. So that's where we're at
20 right now.

21 And, Natasha, did you want to add
22 anything to that statement?

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1 MS. BONHOMME: No. I think that
2 it's just the timing of everything that -- and
3 in a couple months I'll have more conversation
4 (inaudible) and also with the committee --
5 exactly where should the overlap be in this --

6 MS. WICKLUND: Great. Thank you.
7 Next slide?

8 So the other thing that is
9 underneath that initiative is to develop a
10 glossary of terms to be incorporated into the
11 website. And this is to help, again, people --
12 there is a lot of terminology in there that
13 might be above the reading level that we are
14 really going for.

15 So Jeremy has spearheaded this
16 effort thus far, and the reading level that we
17 are really trying to go at is a sixth grade
18 reading level. So we are trying to basically
19 look at the terminology that is being utilized,
20 like in the nomination form or different
21 things, and then link some of those terms with
22 like a definition that they can perhaps --

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1 advocacy groups can look at and get a better
2 understanding of what we're asking for in
3 particular.

4 So Jeremy has a first -- actually,
5 a first or second draft that has been going
6 around, and Cate has volunteered to help Jeremy
7 with some of those definitions. And part of
8 the thing is, of course, you can't build on
9 definition and definition and definition. You
10 can a little bit, but each definition from a
11 reading level needs to kind of stand alone.

12 So if you put it through some of the
13 different assessments, you know it's a
14 difficult thing to get this down to, obviously,
15 a sixth grade reading level. But they are
16 continuing to work on that.

17 We did have a little bit of a lag
18 time with that because we were unsure if we
19 could actually do this on the advisory
20 committee website. So there are logistics
21 that we just need to figure out. When we are
22 thinking about incorporating these, can we put

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1 them on the advisory committee website, or is
2 that going to have to be something that goes on
3 the Clearinghouse?

4 So there are some implementation
5 kind of logistical issues that we need to be
6 cognizant of as we move forward on these
7 initiatives. Next slide?

8 So given that, our -- you know, many
9 of our initiatives have been completed. One of
10 the things that Beth and I talked about was to
11 really start a discussion on the -- what kind
12 of are the current trends and barriers in
13 newborn screening to help us identify what
14 might be the next steps within the Education and
15 Training Subcommittee. Next slide?

16 And what we did yesterday was just
17 a really preliminary need assessment. We had
18 put together about five or six questions that,
19 if you guys had done strategic planning,
20 recognized these from your basic strategic
21 planning, really looking at issues facing
22 newborn screening today. You know, what are

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1 the most important issues facing education and
2 training, and we left that fairly broad. That
3 could be education of public, education of
4 health care providers and different
5 stakeholders. And, you know, where is newborn
6 screening today. And this was really, you
7 know, obstacles pacing us, kind of just to get
8 us beginning discussions about what are the
9 issues.

10 And this is not that we have decided
11 these are the issues that we actually need to
12 address yet. I think this is kind of getting
13 the issues out there to help us think about,
14 what do we want to try to tackle, where can we
15 make the most difference, and those sorts of
16 things.

17 So we had about a -- I would say a
18 30- to 40-minute discussion yesterday, just
19 from the committee, and what I did was try to
20 distill some basic themes that came out of our
21 discussion. So the next slides are just some
22 of the issues that kind of came out of those

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1 discussions.

2 So, you know, one of the questions
3 we asked ourselves was, where do the most
4 serious issues happen in the actual system
5 itself? And, you know, the fact that we are
6 dealing with rare conditions, and of course the
7 challenges of educating stakeholders -- and
8 that came up a lot, you know, the knowledge of
9 the primary care provider of the rare
10 condition, being able to recognize these
11 conditions, and this speaks to the timeliness
12 issue that we were talking about before.

13 The education about and the impact
14 of false positives are inherent, so that
15 balance between, you know, giving out results
16 in a quicker fashion but also about the impact
17 of false positives, and recognizing that there
18 has been work in these areas as well.

19 Okay. That's one thing I want
20 everyone to realize. It wasn't that we thought
21 these have not been tackled by other people,
22 that other organizations have looked at these

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1 issues, have gotten some initial data. And
2 before we decide to do anything, we really want
3 to be cognizant of that and to be able to get
4 all of the data that has already been generated
5 before we move forward on anything.

6 There was a lot of infrastructure
7 issues that came up, and just also issues about
8 state health departments, them being
9 overwhelmed, lack of funding, some
10 vulnerability, in particular with recent, you
11 know, dry blood storage (inaudible) issues, and
12 what the role of the media plays and the
13 messaging that the public is getting about when
14 something happens that is negative.

15 You know, you hear so much about
16 that. You don't certainly hear as much about
17 the positive things that state departments are
18 doing, the IT needs that they have. And,
19 again, just in general, all of the issues that
20 go along with the current infrastructure that
21 we have.

22 And workforce came up as well, and

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1 I see that it came up with the long-term
2 follow-up as well, so I'll talk about that in
3 a second.

4 The other thing is education in
5 general. You know, we talked a lot about the
6 issues of education, and, Charlie, you said
7 earlier, too, you know, just education is not
8 enough. And being really aware of, what does
9 that mean, and what are the other things that
10 need to be in place, and how do we measure
11 outcome and success. And obviously there are
12 many, many organizations that are looking at
13 this issue, and being aware of that.

14 What are the key relevant messages?
15 How do we utilize parents and public and
16 storytelling and getting -- you know, utilizing
17 and galvanizing that population? And a lot of
18 people listen -- will listen a lot more to
19 someone telling a story than us as
20 professionals telling them that this is what we
21 think is going on. Next slide?

22 Again, the primary care provider,

1 access to the specialists. And, again, this
2 all gets back to like the just-in-time point of
3 care that we need to be aware of. Are there
4 other models that we can use, you know, about
5 other critical issues, for instance,
6 infectious disease, HIV, and how, you know,
7 hotlines and different things that we could be
8 thinking about.

9 The timeliness issues obviously
10 came up. You know, we had read the report that
11 the laboratory committee had done, and so there
12 were a lot of bullet points within that report
13 that referred to education and training, and so
14 that's on our radar is how can we contribute to
15 some of the recommendations of the burning
16 facility issues that came up.

17 And, again, I think the real thing
18 is, like, how -- what impact can we have and how
19 can we help there?

20 And then, the other thing that came
21 up was the genetic workforce issues in general
22 with regard to access to medical geneticists

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1 and the growth of that profession, and then also
2 genetic counselors, and we talked a little bit
3 about the efforts through NSGC and the program
4 directors group for genetic counselors and what
5 has been going on with regard to looking at
6 workforce.

7 And I know that ACMG convened the
8 Banbury Conference recently, I believe like in
9 February or March of this year, looking at
10 issues regarding that as well. So is there
11 anything we can do to contribute to that?

12 And then also, in general, just
13 education regarding the exome and genome
14 sequencing. So, you know, there was concern
15 that sequencing -- obviously, there is more
16 sequencing being done. We have the newborn
17 screening sequencing grants that are out there.
18 We have seizure grants, eMERGE grants, they are
19 all looking at sequencing and integration to
20 electronic health records, and also
21 decision-making about return of results and
22 what needs to be returned.

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1 And not just education from the
2 public and patient perspective, or consumer
3 perspective, but also provider perspective and
4 individuals who are ordering these tests that
5 might not be as knowledgeable in genetics and
6 really the interpretation and what to do with
7 the results. So, and do we have a role in
8 looking at that issue as well?

9 Next slide?

10 So, again, I just want to be -- we
11 really I think want to be mindful of, you know,
12 not doing work just to do work for work's sake,
13 right? And really being mindful of, where can
14 we have the most impact or influence in this
15 area, and really continue to be aware of other
16 organizations' efforts and not be repetitive in
17 our efforts.

18 So is it our job to be a catalyst?
19 Is it our job to bring people together? You
20 know, can we leverage, you know, the different
21 organizations that are represented in this
22 group? And how can we maybe, you know, find

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1 synergy there and, you know, get people to work
2 together towards some of these goals? And,
3 again, not losing sight of, where do the
4 heritable disorders in general fit into the
5 work of this committee and not just focus on the
6 newborn screening aspect.

7 So this, again, is very
8 preliminary. These are kind of initially what
9 we discussed at our meeting, but I think we have
10 more work to do in identifying what might be
11 some of the priorities, where can we have the
12 impact, and where can we not be repetitive in
13 our work. And also, obviously, we would like
14 to have input from the committee on new
15 priorities and projects as well.

16 And let me just say before we -- does
17 anybody from the committee wants to chime in on
18 anything or clarify anything that I did not?

19 DR. BAILEY: No. Just to
20 reinforce and, first of all, thank you for
21 taking over as chair of the subcommittee. I am
22 personally grateful, most grateful. But,

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1 obviously, Catherine did a great job in the
2 meeting yesterday in (inaudible) so the
3 committee have been excellent.

4 The point that I've tried to make in
5 previous meetings, and that you made very well
6 here, is that the education and training space
7 is very big, and the needs are unlimited. So
8 the question -- and there are a lot of players
9 in this already. We've got the -- you know, the
10 professional organizations having (inaudible)
11 standards or whatever, or, you know, whether
12 it's pediatricians or family practice people,
13 really don't want to try to change those
14 necessarily -- developing training curricula
15 is not really our responsibility.

16 Are there some, you know,
17 recommendations we should be making?
18 (Inaudible) looking for guidance from the
19 larger committee and --

20 CHAIR BOCCHINI: All right. Thank
21 you. (Inaudible) yesterday. Let's open this
22 up to the committee and to the --

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1 PARTICIPANT: Well, going back to
2 your Priority A and your -- the discussion you
3 had about where screening in childhood fits,
4 and whether that is really a clinical practice
5 guideline or a public health issue. It
6 parallels somewhat with developmental
7 screening, which certainly in terms of autism
8 is in the public health domain.

9 And I think, you know, in our
10 Title V program we are very much interested in
11 taking steps in public health to support
12 practitioners in implementing those clinical
13 guidelines. So, yes, there are clinical
14 guidelines around development screening, but a
15 lot of -- a lot of practitioners aren't able or
16 knowledgeable enough to do that yet.

17 So we see part of our role as
18 supporting them to implement that, and I think
19 maybe a parallel vision of how to do this -- do
20 other types of training (inaudible).

21 DR. BAILEY: I would just respond
22 to that and say that's very helpful, and I

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1 think, you know, it's going to be an interesting
2 and complicated paper to pull together. I
3 think one of the things we are going to be
4 focusing on is where we originally started out
5 discussion is, would there be any value in later
6 population screening? So move into
7 (inaudible) screening; that's a whole
8 different set of -- that's a whole different set
9 of considerations. Have you got all this out
10 in the paper? Is (inaudible)?

11 DR. THOMPSON: Cathy, you raised a
12 really interesting point about where -- how
13 much of our role is the diagnosis and early
14 intervention for heritable disorders and how
15 much of it is sort of the broader picture. And
16 it strikes me that what you're bringing up I
17 don't know necessarily fits in your committee,
18 and I guess the question is, is there a need for
19 an additional committee that looks at --
20 certainly, there are other clinicians at the
21 table whose states are right now sort of
22 reconfiguring how you manage complex chronic

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1 illnesses.

2 And there are some real concerns
3 that those children, based on decision-making,
4 may very well be put into care systems that
5 really actually don't favor them, for instance,
6 being seen by the specialists who can take care
7 of them best, because they're aligned with
8 their primary care provider.

9 And so it strikes me that many of the
10 children that we are identifying as children
11 who have heritable disorders may find
12 themselves very quickly no longer actually
13 being in a position to actually receive the
14 highest quality, evidence-based care.

15 I guess the question for me is, is
16 that something that is under the interest or
17 domain of this committee? And if it's not, is
18 that something that the committee -- something
19 that has to do with access issues, health care
20 financing. I mean, there is -- so these
21 broader issues, you know, if we are looking
22 toward these children being providers, they

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1 won't -- in all likelihood, they will be kids
2 with chronic, complex problems.

3 And the question would be is, are we
4 positioning their care to be structured in an
5 evidence-based way to actually ensure that they
6 actually have access to providers? And I have
7 to tell you at this point, you know, we are --
8 we are quite concerned that there are a number
9 of our patients that are already being referred
10 elsewhere. And it's a choice of which Medicaid
11 program does that (inaudible) to. So, and they
12 get to keep their pediatrician, but that they
13 have no access to actually specialty care.

14 And it's (inaudible) and really
15 right now it's -- and I can only assume at this
16 -- and so do we have an opportunity to be -- I
17 don't know that it necessarily all falls to us.
18 I'm just wondering, is there an opportunity for
19 this committee to examine what, if any, role we
20 have in this, since we -- it's fairly clear that
21 this is -- the train is leaving the station. I
22 really don't see us going backwards. I see

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1 this as being --

2 CHAIR BOCCHINI: So, Carol?

3 DR. GREENE: I would like to
4 passionately second what Alexis just said, and
5 to say that -- and Coleen will certainly tell
6 you that that has been a discussion among the
7 clinical parts of the committee from the time
8 that she was chair of the Follow-up Committee,
9 and a much better description of what I was
10 heading for in the discussion of the Long-Term
11 Follow-up Committee, wanting to look at access
12 issues. All sorts of things have come up
13 before, but that -- that I have always felt,
14 from the time Coleen was chair of the committee,
15 previous committees, I mean, that is actually
16 in the charge of the Long-Term Follow-up
17 Committee.

18 And the reason that some of us are
19 hoping that the Long-Term Follow-up Committee
20 looks not just at the data that tells us, are
21 we doing it and what has happened, but actually
22 looks at the issues themselves and tries to help

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1 the committee, which I am only a liaison, but
2 that the -- one of the roles of the Long-Term
3 Follow-up Subcommittee -- and I personally
4 would not want to see a separate implementation
5 committee, because, you know, you can implement
6 the lab, you can implement everything.

7 And I think directly in the charge
8 of the Long-Term Follow-up Committee is that
9 people need to have treatment. They have to
10 have high-quality treatment, not just access to
11 treatment, they need to have treatment.
12 That's what long-term follow-up is. And I
13 think that's directly in the charge of the
14 Long-Term Follow-up Committee.

15 PARTICIPANT: I agree.

16 CHAIR BOCCHINI: Okay. I have
17 you, (inaudible), and then --

18 PARTICIPANT: Thanks. I just very
19 briefly wanted to bring up the idea that in
20 conjunction with expansion of newborn
21 screening is the expansion of prenatal
22 screening. And from my vantage as an

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1 obstetrician, there is a whole bunch of effort
2 and, you know, expanded carrier screening. So
3 people are coming into newborn screening with
4 a whole lot of stuff that has already gone on.

5 There is a couple of issues there.
6 One is education for the parents and
7 clinicians, how to get that information from
8 the prenatal period into the newborn period and
9 childhood period and siblings. What are the
10 ramifications for siblings?

11 And there is also a (inaudible) for
12 an information systems piece. Is there a way
13 to do that?

14 But I would just want to throw it out
15 there, something that could at least just be
16 noted, because from a patient perspective and
17 from the continuum of care, I think we have to
18 try to remember that piece if we really
19 (inaudible) that we, as clinicians, go on the
20 prenatal -- the post-natal side, but of course
21 families are moving through this. So we want
22 to try to integrate that education perspective.

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1 MS. WICKLUND: I don't have to be
2 the one -- remember, I think last time I said
3 that, and now you get to keep saying that.

4 Let me just -- one of the things that
5 I just want to just make a note of is
6 implementation science in general, and what
7 implementation truly means. So, and I am not
8 an expert in this area, but one thing I have
9 learned over and over again when I am around
10 implementation people is that it is a science
11 of itself that is multi-faceted and includes a
12 lot more than, you know, so many different
13 aspects than -- and one of the reasons why it's
14 such a complicated topic to tackle, one in which
15 we have tried in the Institute of Medicine
16 Roundtable, and have kind of gone there, kind
17 of backed away a little bit, gone there, backed
18 away a little bit, but I just really want to make
19 sure that if we are going to tackle
20 implementation, if we want to, it truly is more
21 than -- even some of the stuff that we are
22 mentioning right now, it's just, you know,

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1 huge. It's very complex.

2 PARTICIPANT: And along those same
3 lines, I do think it would require a very
4 different expertise than I would argue is
5 currently at the table. It would seem that the
6 individuals that come into that conversation
7 come from very different backgrounds.

8 I also meant to mention when we
9 talked about this -- the relationship to
10 education and training, that in addition to
11 having patients and not being certain where
12 their care is, there continues to be, you know,
13 I think the notion of it not being clear why a
14 genetic counselor, for instance, is someone who
15 actually needs to be part of a health care team,
16 whether it's -- it's looking at reimbursement
17 or whatever, the notion that training is tied
18 to actually being able to provide that kind of
19 care and really being able to clearly define
20 what does a genetic counselor do, whether
21 pre-natal or post-natal, but to sort of make it
22 clear that as we're trying to look to where does

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1 training meet long-term follow-up or even, you
2 know, last standards that somehow we can be
3 clear on why that particular -- is not obvious
4 to some people.

5 DR. HOMER: But I think it's
6 actually fair to say that Dr. Daugherty and I
7 probably are (inaudible) experts in
8 implementation science. So there aren't a
9 whole lot of us out there, so I'll take out my
10 card.

11 So I think what I'm hearing from at
12 least members of the Long-Term Follow-up
13 Committee is some sense that perhaps we are not
14 fully addressing some things that -- which I
15 tried to put on my final slide. But I do take
16 that under advisement and think basically we
17 will bring that back to the committee.

18 I think -- I mean, a broader
19 question is, to what extent are we an advocacy
20 group, or to what extent are we seeking to
21 identify data, gaps in data, and point that out.
22 And that is I think really what I have been

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1 wrestling with as chair, and so, again, that may
2 or may not be a -- that may be an offline
3 conversation. But that's, I think, partly
4 what (inaudible) through here.

5 CHAIR BOCCHINI: I think that's
6 really -- this is a good discussion. You know,
7 we are policy committee. We're -- so I think
8 that our goal is just as you said, Charlie. We
9 need to try and use the expertise on this
10 committee to develop the best policies for the
11 health of children and families. And then the
12 goal is to recognize absent that -- or provide
13 opportunities to be able to study how that is
14 happening. But the information I think is not
15 a key part of this committee -- think we can --
16 on what is not happening.

17 And I think the framework that was
18 developed by the Long-Term Follow-up Committee
19 about picking a condition and sort of looking
20 at ways that people could look at the
21 effectiveness of the long-term follow-up and
22 treatment is -- is appropriate for this

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1 committee to do. But whether we should be able
2 to go into actual -- make recommendations for
3 how to implement, I think it's -- I mean, we can
4 debate that further and discuss it further, but
5 I -- and I think that's -- so, Don, and then
6 Carol.

7 DR. BAILEY: Yes. That's a
8 helpful -- helpful comment. I think the same
9 applies to the Education and Training Committee
10 is what is -- what is the role of the committee,
11 and if it's around policy as opposed to -- keep
12 in mind.

13 One thing that strikes me from this
14 conversation is that, you know, we are three
15 subcommittees operating somewhat
16 independently. We do come together and talk in
17 our -- in this big meeting, but clearly some of
18 the work of the Education and Training
19 Committee could follow on directly from the
20 other two subcommittees.

21 And so there may be -- you might want
22 to think about some kind of structure in future

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1 meetings where we, you know, maybe have our
2 separate committee meetings, and then --
3 actually, I don't know what the right structure
4 would be there, but I think for us to hear from
5 long-term follow-up, what are the top education
6 and training priorities, same thing from
7 education -- I mean, from the laboratory
8 standards committee, is there anything we can
9 do to help advance --

10 CHAIR BOCCHINI: We did have -- we
11 have had phone conversations amongst the chairs
12 of the three subcommittees to see where things
13 were and to help us fertilize what was going on
14 and --

15 DR. GREENE: The comment was made
16 -- or the question was, and you have already
17 answered, Joe, this is clearly not a place for
18 advocacy. With that said, I think there are
19 important ways that we can look at what is
20 happening and explore -- and this is a term that
21 has been around in the long -- the LTFU,
22 Long-Term Follow-up and Treatment Subcommittee

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1 for a number of years, and we have kind of been
2 working up to looking at roles and
3 responsibilities.

4 And there is this huge opportunity
5 right now, because health care is enormously
6 influx, and things are happening and some of
7 them are very, very good, and some of them it's
8 very clear are putting our special kids and
9 families at huge risk. And you just heard
10 Alexis describe some of that.

11 This is a time where if we look at
12 those, not just the -- what is happening, but
13 how it's happening, that we begin to look at the
14 states, at the models, that doesn't get into
15 advocacy, but it does get into understanding
16 what is going on and seeing what the
17 opportunities are.

18 And this is a time to be able to look
19 at those roles and responsibilities, what
20 states are doing, how people are making sure
21 that people do have access, how people are
22 losing access, and that is a place where I think

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1 this committee can -- has an opportunity to make
2 a huge contribution in a very timely fashion,
3 and then hand that all over to the people who
4 do advocacy.

5 I guess I'm thinking of Alexis'
6 expertise that is missing. Thank you for
7 letting me join your club.

8 PARTICPANT: I think some of what you
9 were saying is something like Carol was just
10 saying, that the health care delivery system
11 (inaudible) changing dramatically -- kids who
12 might have been able to go to a children's
13 hospital may not be able to go there anymore,
14 that kind of stuff.

15 And that kind of financing --
16 knowledge and where the policy letters are and
17 whether this committee is able to say anything
18 about -- that's the kind of thing I -- I know
19 it a little. You know it -- you have to know
20 -- access to quality.

21 But -- I was on -- I used to be on
22 the interagency Autism Committee. That

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1 committee actually wrote a nicely worded
2 recommendation to the Secretary, but it was
3 done with a lot of input from somebody from CMS
4 who knew a lot about certain (inaudible) rules
5 are. Those people are rare, you know.
6 Everything about the Medicaid rules --

7 Anyway, does that -- am I getting at
8 what you were --

9 MR. OSTRANDER: Robert Ostrander,
10 New York City Academy of Family Physicians and
11 NYMAC. I got involved in this world a long time
12 ago and got into this through a circuitous
13 pathway by participating in one of the first
14 NICHQ medical home learning collaboratives,
15 Charlie.

16 And I learned about what a patient-
17 and family-centered medical home was then.
18 And I look at what the NCQA calls a
19 patient-centered medical home now. I kind of
20 prefer payer-centered medical home myself, if
21 that's not too politically incorrect.

22 And what I want to point out -- and

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1 this really just is -- I'm just saying a
2 different way what Carol already said -- is that
3 the evolution of health care and this grand plan
4 that we have as a nation to bring everybody
5 under the umbrella has resulted in a system that
6 ignores the exceptional patient in order to
7 save the money and provide lots of health care
8 to the folks with common lifestyle problems.

9 And so systems are put in place, and
10 they are rigid systems, to either incentivize
11 or require certain systems of care that don't
12 work very well with the original patient- and
13 family-centered medical home, which involved
14 personalized care plans and not disease-based
15 care plans.

16 And although I don't think we can
17 advocate here -- I understand that, I have a
18 hard time not doing that, but I understand that
19 -- I do think that we can identify barriers.
20 And if you identify barriers, we are not
21 advocating until we say what the solution is.

22 And I think, you know, this is

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1 honestly where we really are in a full circle
2 on the Follow-up and Treatment Subcommittee,
3 because the reason we set up this framework was
4 to help identify barriers to the paper we wrote
5 before about what the key elements were for
6 long-term follow-up and treatment of folks with
7 special -- with heritable diseases. And that
8 involved a lot of this kind of softer,
9 non-measurable stuff like, are they in a
10 patient-centered medical home, and what does
11 that mean for somebody.

12 So I really do think it's our
13 purview, and I would love to -- at least for part
14 of what we do in the Follow-up and Treatment
15 Subcommittee, is to pull back a little bit. I
16 mean, we did a lot of numeric stuff this time,
17 but pull back a little bit and actually talk
18 about what follow-up and treatment looks like.

19 Transitions is huge. We are doing
20 stuff in NYMAC where -- and, again, we're ready
21 at ground zero. It's very clear to me that
22 primary care folks in -- and, frankly, on both

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1 ends people don't understand what transition is
2 all about. This came, again, out of that first
3 NICHQ initiative all those years ago when I got
4 kind of excited about transitions.

5 There is no education. People
6 don't know what it means. They don't know what
7 it means at the subspecialty end. They don't
8 know what it means in primary care. And in
9 NYMAC we're starting with just a simple survey
10 of the training programs to see, is there any
11 training in transition? Everybody who becomes
12 a pediatric subspecialist has to be a
13 pediatrician first. Everybody who comes in as
14 an internal medicine subspecialist has to be an
15 internist first.

16 And I think that those things really
17 very much are in our purview. I mean, we can
18 identify barriers, lack of education and
19 transition. There are barriers in the way the
20 health care system has evolved that have been
21 wonderful for the nation as a whole, and they're
22 getting more people taken care of and more

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1 people insurance.

2 But the fact that there is lack of
3 a system to identify exceptions and waivers,
4 however way you want to phrase it, so that our
5 -- so that these folks can stay with the care
6 providers that can best serve them if you meet
7 X, Y, and Z criteria. Those are the kind of
8 systems processes that I think we can drive, so
9 I would very much like to -- and I don't think
10 we need another subcommittee for that. I
11 would, you know, very much like to see it be part
12 of this committee as a whole's work, and also
13 our subcommittee.

14 CHAIR BOCCHINI: Additional
15 questions?

16 PARTICIPANT: I have a comment
17 that's a little bit off topic, but this -- I'm
18 not sure whether the Education and Training
19 Committee is the right group to tackle this, but
20 it seems to me like there is an opportunity for
21 education around later onset disease
22 (inaudible). I just wanted to throw that out

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1 there as -- as a topic that the committee may --

2 CHAIR BOCCHINI: Any additional
3 comments? Again, now we have just -- next is
4 to discuss future topics, and I think
5 (inaudible). And any other topics? I know
6 Steve -- but he did mention a potential topic
7 for us, one that -- significantly I guess is the
8 FDA has made a decision about kits for -- help
9 me explain this, but I guess it has to -- but
10 it has to do with home --

11 DR. KELM: Yes.

12 PARTICIPANT: -- for subsequent
13 genetic testing and --

14 DR. KELM: We have notified
15 Congress that we intend to release stress
16 guidance, although our notification included a
17 draft of that guidance. So that indicates a
18 framework for regulating laboratory
19 development tests. We would not force anybody
20 to use (inaudible), but it would just be the
21 fact that some of the -- you know, that we would
22 assess what is on the market, because honestly

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1 no one knows, and then deciding -- start with
2 probably the most risky (inaudible) and asking
3 them to come in (inaudible) FDA for clearance
4 approval.

5 And there are exceptions in there
6 for rare diseases and some others, although I
7 know from talking to Mike Watson previously he
8 wanted to know what that -- what that meant,
9 what was the definition for that. And I agree
10 that will be a good definition to add. But I'm
11 sure that that probably be a discussion that we
12 would interested in.

13 CHAIR BOCCHINI: Okay. All right.
14 So that would be something that -- thank you for
15 clarifying that for me.

16 All right. Additional potential
17 topics? Don?

18 DR. BAILEY: So I know that at a
19 previous meeting I believe Tiina had gave a
20 brief overview of the four centers that were
21 funded, to look at whole genome (inaudible)
22 sequencing. Those centers have been up for

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1 about a year now, and maybe by the -- either the
2 next meeting or the next meeting, it might be
3 interesting to have a report. There's a lot of
4 debate and discussion about whether that is
5 even a good idea.

6 I think -- being a part of one of
7 them, I think the research piece of it is very
8 important work to be done to help inform future
9 -- future policy. So at some point I'd be glad
10 to organize a session where we would give an
11 update on kind of what questions are being
12 addressed by what -- how the project has evolved
13 over the first couple of years and where
14 we're --

15 CHAIR BOCCHINI: Steve, and then
16 Carol.

17 DR. McDONOUGH: Where I work in
18 Bismarck we have had several children who
19 presented with critical congenital heart
20 disease that had a normal O2 sat screening in
21 the hospital. And these children have a
22 condition called coarctation of the aorta,

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1 which is not one of the original seven or so that
2 were designed as the O2 sat we were screening.

3 I think that providers may believe
4 that the O2 sat screening are picking up the
5 most critical heart diseases. And sensitivity
6 on a -- publication, I was looking at a lot of
7 studies last year, indicated sensitivity is
8 about 75 percent.

9 So, as a pediatrician, I would like
10 to know what the American Heart Association and
11 American Academy of Pediatrics would recommend
12 should we have children come back at three days
13 of age or seven days of age, and should --
14 screenings on them, see if we can pick up some
15 of these children with coarctation before they
16 present in congestive heart failure or shock.

17 This would not be something we would
18 be asking the health department to do. You
19 know, it's the recommendation for primary care
20 providers. Is there something we can do to
21 pick up these kinds who are being --

22 DR. GREENE: Before I get to my

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1 suggestion, I'm pretty sure, but I hope I'm not
2 misspeaking, to follow up on what was -- Steve
3 just said, I'm pretty sure that coarcat is not
4 a cyanotic disorder, and that repeating that
5 screen won't pick up coarcat. So that if it's
6 going to be an important issue for education,
7 I will be interested to know what people do for
8 education.

9 But that -- that HD screening does
10 not pick up anything that's not cyanotic, and
11 I think even bringing them back to -- the screen
12 won't pick it up.

13 Yes. So it's -- what I was wanting
14 to bring forward might be related to what
15 Alexis, what we were just talking about about
16 the whole models and access and understanding
17 and not advocacy. But we have had -- I think
18 it was -- Debi Sarkar, you will know for sure
19 when we had a presentation, and at that time it
20 was sort of focused on the ACA and everything
21 was very, very politically sensitive. It was
22 just coming in.

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1 And we had a presentation -- the
2 committee had a presentation on the ACA, and I
3 believe the subcommittee did as well. And it
4 was pretty 30,000-foot, this is how it's going
5 to work, and it was really focused on the
6 healthy kids.

7 There was nothing in the
8 presentation -- Alexis at that time I think did
9 a presentation about some of the concerns, but
10 the people who presented about the ACA and about
11 the new systems and about -- and it's now more
12 complicated really did a -- this is how
13 wonderful it is going to be, that kids are going
14 to all have primary care and coordinated care.

15 And I think it would be a good time
16 to have some really thoughtful presentations
17 about what is happening as it is being
18 implemented to -- we keep saying, and we know
19 from our own experience that the children with
20 the rare, complex disorders, the children and
21 families are being hurt by some of the changes.
22 And not to point fingers, but just to understand

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1 what's going on, I think it would be wonderful,
2 at least at the subcommittee and I think
3 probably at the committee level, to really dig
4 in and have some presentations about how that
5 is working, so we can begin to understand and
6 begin to understand what we should be looking
7 at, and not -- you know, not just at this -- how
8 the ACA works and how you get you primary care,
9 but what are truly the impacts that people like
10 Alexis and I and Debbie Badawi are all dealing
11 with when we try to provide the care that we know
12 is needed.

13 CHAIR BOCCHINI: So I want to thank
14 everybody. I think we've had a really
15 excellent meeting. I want to thank Debi for
16 organizing this and setting up the agenda, so
17 that it has been very, very -- very well done,
18 and I want to thank everybody for their
19 contributions. Certainly, I think this is
20 good evidence that a face-to-face meeting --
21 all for your participation. Look forward to
22 seeing you again in February.

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1 MS. SARKAR: The next meeting is
2 February 12th and 13th.

3 (Whereupon, the above-entitled
4 matter went off the record.)

5