

PATIENT-CENTERED OUTCOMES RESEARCH INSTITUTE

BOARD OF GOVERNORS MEETING

Monday,
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Almas Shriners Building
1315 K Street, N.W.
Washington, DC 20005

[Transcribed from PCORI teleconference.]

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Leah Hole-Marshall, JD
Gail Hunt
Robert Jesse, MD, PhD
Richard Kronick, PhD
Harlan Krumholz, MD
Richard E. Kuntz, MD, MSc
Sharon Levine, MD
Freda Lewis-Hall, MD [via telephone]
Barbara McNeil, MD, PhD
Grayson Norquist, MD, MSPH [Chair]
Ellen Sigal, PhD
Harlan Weisman, MD [via telephone]
Robert Zwolak, MD, PhD

AGENDA

	<u>Page</u>
1. Welcome, Call to Order and Consent Agenda	
Grayson Norquist, MD, Board Chair	5/9
2. Executive Director's Report and Q3 Dashboard Review	
Joe Selby, Executive Director	11/24
3. Consider for Approval: Annual Budget FY 2016	
Larry Becker, Chair, Finance and Administration Committee	55
Regina Yan, MA, Chief Operating Office	55
4. Consider for Approval: Slate of Spring 2015 Broad Awards	
Christine Goertz, DC, PhD, Chair, Selection Committee	81
Bryan Luce, PhD, Chief Science Officer	82
5. Lunch	90
6. Stakeholder Perspectives: Health Plans	91
Lewis Sandy, MD	103
Sam Nussbaum, MD	93
7. Consider for Approval: Slate of Clinical Management of Hepatitis C Infection Awards	
Christine Goertz, DC, PhD, Chair, Selection Committee	135
Bryan Luce, PhD, Chief Science Officer	137

AGENDA [Continued]

	<u>Page</u>
8. Consider for Approval: Targeted PCORI Funding Announcements (TPFAs) Development Christine Goertz, DC, PhD, Chair, Selection Committee	153
Bryan Luce, PhD, Chief Science Officer	153
9. Break	191
10. Methodology Committee Update Robin Newhouse, Chair, Methodology Committee	244
11. Evaluation Update: Results of Applicant Analyses Lori Frank	207
Laura Forsythe	207
12. PCORnet Phase II Rachael Fleurence, PhD, Program Director, CER Methods and Infrastructure	244
Joe Selby, MD, MPH Executive Director	274
13. Public Comment Sue Hildebrandt, Director, Stakeholder Engagement	277
14. Wrap up and Adjournment Grayson Norquist, MD, Board Chair	280

P R O C E E D I N G S

[10:15 a.m.]

1
2
3 CHAIRMAN NORQUIST: Good morning. I'm Dr.
4 Gray Norquist, Chair of the PCORI Board of
5 Governors. I want to welcome everyone to today's
6 Board meeting, which we are holding in person in
7 Washington, D.C., as well as via teleconference and
8 webinar.

9 For those unable to attend in person,
10 instructions for logging in or calling in are
11 available on our website at PCORI.org/events.

12 All Board members are present with the
13 following exceptions, Allen Douma, Freda Lewis-
14 Hall, and Harlan Weisman are participating via
15 phone. Steve Lipstein is absent and Francis
16 Collins is out from 10:00 until about 12:30 p.m.
17 Eastern Time.

18 I want to remind everyone that disclosures
19 of conflicts of interest of members of the Board
20 are publicly available on our website and are
21 required to be updated annually.

22 Members of the Board are also reminded to

1 update your conflict of interest disclosures if the
2 information has changed. You can do this by
3 contacting your staff representative. If the Board
4 will deliberate or take action on a matter, which
5 we will today, that presents a conflict of interest
6 for you, please inform me so we can discuss how to
7 address the issue. If you have questions about
8 conflict of interest disclosures or recusals
9 relating to you or others, please contact your
10 staff representative.

11 All materials presented to the Board for
12 consideration today will be available during the
13 webinar and then after the webinar will be posted
14 on our website. The webinar is being recorded and
15 the archive will be posted by the end of the week.

16 We have scheduled a public comment period
17 today from 5:30 to 6:00 p.m. Eastern Daylight Time.
18 If you are interested in registering to provide
19 public comment, please visit our event page for
20 instructions, or you can always e-mail us at
21 Info@PCORI.org or provide input through our
22 website, PCORI.org.

1 A final reminder, we are live tweeting
2 today's activities on Tweeter, and you can join the
3 conversation at #PCORI.

4 The first item, I am going to introduce
5 Joe Selby, our Executive Director, who wants to
6 provide a few brief introductory remarks.

7 DR. SELBY: Thank you, Gray. Good
8 morning, everyone. I want to start by advancing my
9 slide. I want to start by noting that five years
10 ago last week, PCORI's first Board of Governors was
11 named by the GAO. I wanted to take a moment to
12 congratulate the Board and to thank the Board for
13 having stuck with this amazing adventure, this
14 experiment, for five years.

15 We have had three people leave the Board
16 in five years, 18 are still with us. Two of the
17 three people who left actually left because they
18 had to, simply because their jobs changed. One
19 took a job with the Government which meant he had
20 to leave, and one left a job with the Government,
21 which means as an ex officio member, she had to
22 leave. An amazing record.

1 At PCORI among the staff, I know I often
2 wonder and wish I could have been here for that
3 first Board meeting. You got handed a lengthy
4 document. You were besieged by stakeholders from
5 every corner of the country telling you that they
6 had helped write the legislation and this is what
7 it really meant. Out of that, you made a very
8 consistent organization that we are all proud to be
9 part of.

10 I went to the PCORI website last night
11 because I thought maybe that very first meeting was
12 archived. We have most of the Board meetings
13 archived as either webcasts or now webinars and
14 recordings. I just wanted to hear the tone in
15 people's voices the first time they laid eyes on
16 each other and tried to tell each other what they
17 thought PCORI was going to be about.
18 Unfortunately, we didn't archive them quite back to
19 the beginning.

20 MS. GOERTZ: None of us would be willing
21 to take notes. That's why.

22 [Laughter.]

1 DR. SELBY: I thought if I could have
2 found that one, I would have put a little bit of it
3 up this morning for you.

4 At any rate, just to say that we really
5 appreciate your endurance, your patience, your hard
6 work, your thinking. We have come a long way. I
7 think you will agree this last year particularly
8 has been just a really special year of getting
9 things better. Staff, we call this the "year of
10 the tweak," because we are just improving
11 everything that we do.

12 We are moving rapidly toward having study
13 results. You are going to see three exciting study
14 results, and towards having approaches that we are
15 all very proud of for culling out the topics, the
16 research topics, of most interest to stakeholders
17 and getting them funded.

18 Thanks once again. We will move on from
19 here.

20 CHAIRMAN NORQUIST: Thanks, Joe. The next
21 agenda item is the Consent Agenda. Do we have a
22 slide for that? That is not the Consent Agenda.

1 We need to approve the minutes from the August 18
2 teleconference Board meeting. The second one is
3 approve the nomination for the Governance
4 Committee, Robin Newhouse, to serve as chair, and
5 Steve Goodman to serve as vice-chair of the
6 Methodology Committee for a second term.

7 UNIDENTIFIED: I move approval.

8 CHAIRMAN NORQUIST: Any discussion about
9 either one of these items?

10 DR. SELBY: I think we should include a
11 thanks to both of them for their remarkable
12 service.

13 CHAIRMAN NORQUIST: Yes, thanks for their
14 remarkable service and willingness to continue on.
15 Thank you, Robin. Robin is sitting here.

16 No discussion. I think we can do this
17 simply by a voice vote. All those in favor?

18 [Chorus of ayes.]

19 CHAIRMAN NORQUIST: Anybody opposed?

20 [No response.]

21 CHAIRMAN NORQUIST: Anybody abstaining?
22 That goes for people on the phone, too.

1 [No response.]

2 CHAIRMAN NORQUIST: Okay. Thanks. Next
3 up is your report, Joe.

4 DR. SELBY: Speaking of time passing and
5 movement, as I think the Board knows, we are at a
6 juncture in the life of the CSO at PCORI. Bryan
7 Luce, who took this job in late 2013, it was a
8 daunting job when he took it because there was
9 obviously so much to be done in terms of figuring
10 out how in the world we're going to get to targeted
11 approaches to funding CER, how we are going to
12 manage this portfolio, and mainly how we are going
13 to recruit and grow and train a staff, create a
14 culture for doing science at PCORI.

15 Bryan approached it with a degree of
16 energy and intelligence, enthusiasm, and he
17 believed, I think, like I believe, that research is
18 about the most fun thing you can do and get paid.
19 He conveyed that throughout his time with us, two
20 plus years. He did it all with a real classy
21 gentlemanly approach that I certainly learned from
22 and I think we all did.

1 His whole career has really been looking
2 at outcomes, looking at value, applying reason and
3 science to improving health services, allocations,
4 and helping patients make personal decisions.

5 I want to thank Bryan now, but I want to
6 say also that Bryan is going to do his duties here
7 today one last time. Everybody in the room and
8 those on the phone will get to hear his dulcet
9 tones once more as he brings the most recent slate
10 and some new topics to the Board.

11 I asked Bryan if he wanted to say a few
12 words now, and he will make some comments when his
13 time on the agenda comes. I want to just
14 personally say to Bryan, wherever he is sitting
15 right now, what a joy it has been to have him with
16 us, how much he has advanced PCORI's course, and
17 also to say he will be with us on a part time
18 consulting basis to help particularly in building
19 and strengthening PCORnet's ties to industry, to
20 life sciences industry, and also in some of the
21 angles of methods, particularly for things like
22 adaptive trials.

1 I will stop there. Christine?

2 MS. GOERTZ: Thank you. Bryan, I just
3 wanted to also thank you for your work. I don't
4 think there is anyone that is more committed to
5 PCORI's mission than you have been, both in your
6 time before PCORI, your time during PCORI, and I
7 suspect your time after PCORI.

8 I will never forget the first time I got
9 to meet with you, you actually demonstrated that
10 commitment early on by being the only person
11 associated with PCORI that actually has traveled to
12 Davenport, Iowa, came and met with me there. I was
13 really impressed with your passion and your
14 commitment. I have had the chance to work with you
15 very closely over the last couple of years.

16 A couple of things in addition to what Joe
17 has said is the way you are able to inspire loyalty
18 among the people that work for you, it has really
19 been something that has been a real pleasure for
20 me. I have learned a great deal from you, in
21 watching how you make that happen. The last thing
22 I'd like to say is probably one of the most

1 important qualities that a person can have is to be
2 kind. You have that combination of a commitment to
3 our mission and are truly kind.

4 Thank you. I have enjoyed working with
5 you.

6 DR. SELBY: Keeping with the theme of
7 moving forward, Evelyn Whitlock is here. I think
8 many of you might have met her at breakfast
9 already, but I will ask Evelyn to stand.

10 Evelyn comes to us from the Center for
11 Health Research and Senior Director of the
12 Evidence-Based Practice Center for Kaiser
13 Permanente Northwest. This is one of AHRQ's
14 evidence-based practice centers.

15 Evelyn is really a national leader in the
16 application of evidence synthesis to decision
17 making and policy making. She's done just hundreds
18 of evidence syntheses for the U.S. Preventive
19 Services Task Force, and also numerous evidence
20 syntheses in her work with the DECIDE network and
21 through the Evidence-Based Practice Center.

22 I think at this time when we have a large

1 portfolio of projects that we have to manage well
2 and in fact synthesize, where we are really moving
3 to an industrial strength version of topic
4 generation and development of topic briefs on
5 questions stakeholders have brought to us, it's
6 exciting to have somebody who as she said has this
7 framework of evidence synthesis as the way she
8 approaches questions.

9 I think it is very complimentary to the
10 people that we have at PCORI already, and very
11 fitting time-wise. I really look forward to
12 Evelyn's arrival, which will be in January of 2016.
13 She will also join us for dinner tonight, so you
14 will get to know her a little bit better.

15 I want to thank the Search Committee. We
16 had a very vigorous search, a very vigorous
17 national search, with a lot of interviews, a lot of
18 candidates, a lot of time, and both the Board
19 members and staff members who participated on the
20 Search Committee really did great work. We are
21 really grateful. I think to a person, the Search
22 Committee felt like we got the right candidate for

1 this position with Evelyn. So, welcome, Evelyn.

2 I mentioned that time is moving along and
3 we now have results. I just want to say again to
4 those of you on the Board, this is just an example,
5 there are several of these on the Board now,
6 reports and results from important studies. If you
7 go to the PCORI website, you will find it. If you
8 go under Research and Results, you look for PCORI
9 in the literature, and you will find well over 30
10 publications from PCORI funded studies.

11 Very exciting. I was just looking through
12 them yesterday and wound up reading a few of them.
13 It's going to be tough to keep track of all this
14 but our website does a very good job. I commend it
15 to the Board members as sort of a way to keep up to
16 date with what we are doing.

17 I also want to take a minute to celebrate
18 a new and big award which comes to us by way of a
19 collaboration between PCORI's Addressing
20 Disparities Research Program, led by Romana, and
21 the NIH, specifically NLHBI and NINDS, two of the
22 large institutes there.

1 Very successful collaboration which led to
2 a funding announcement for comparative
3 effectiveness studies, testing multi-level, multi-
4 component interventions aimed at reducing
5 hypertension disparities, improving hypertension
6 control in racial and ethnic minorities in low SES
7 populations and/or rural populations. A total
8 commitment of \$23.5 million. This is administered
9 through NHLBI, I believe. In every way, it is
10 collaboratively managed.

11 The two awards are for Dr. Safford,
12 University of Alabama, for a collaboration for
13 improving blood pressure control in what is called
14 the "black belt," geographically the highest stroke
15 incidence area in the country, and it compares a
16 very rigorous CER study comparing two approaches
17 for supporting primary care practices in managing
18 hypertension in this population, and Dr. Lisa
19 Cooper at Johns Hopkins for a study that focuses on
20 the State of Maryland, both urban and rural areas
21 in the State of Maryland, again comparing a
22 rigorous CER study comparing two approaches to

1 supporting primary care practices in managing
2 hypertension.

3 I think most of you know our first annual
4 meeting, the meeting that the Board has been
5 calling for since 2012, is actually taking place
6 next week here in Arlington. We are anticipating
7 an attendance of over 1,000 of the PCORI community.
8 Many of them are funded investigators. Many of
9 them are patients and stakeholders that are
10 affiliated with PCORI, either through the funded
11 research or in other ways.

12 The meeting is dedicated to several
13 critical topics, including dissemination. The
14 first half-day is a joint meeting with AHRQ.
15 Academy Health facilitates the meeting. AHRQ and
16 PCORI are and have been in the process of figuring
17 out how we listen to the PCORI legislation and make
18 certain we are prepared to disseminate the findings
19 of PCOR research, particularly that funded by
20 PCORI, but other critical research as well.

21 That first half-day is a joint AHRQ/PCORI
22 meeting dedicated to dissemination. The panels

1 that afternoon are remarkable. They start with a
2 keynote by Mark McClellan after some introductory
3 remarks by Gene Washington. Gene will then be a
4 panelist that afternoon as well. I think that will
5 be an interesting afternoon.

6 The next day, Wednesday, we have a state
7 of PCOR keynote address by Dr. Victor Montori from
8 Mayo Clinic, and then an entire day of
9 presentations of the research that we have funded,
10 organized by topic so you will see synthesis of
11 research findings in action that day. Very
12 exciting.

13 The next day, we are really fortunate to
14 have Francis Collins kick off a really interesting
15 forum on open science. Francis is the lead. The
16 moderator is Austin Frakt, otherwise known as the
17 "Incidental Economist," and a group of panelists, a
18 really exciting group of panelists will round that
19 out, after which there are a number of summits of
20 various groups of researchers funded by PCORI for
21 the rest of Thursday. A great day.

22 Any number, and I don't have the exact

1 number, but a number of you are signed up to play
2 roles either on panels or as moderators, and I
3 thank you all for your interest in the meeting and
4 willing to play that leadership role.

5 I will stop and see if there are any
6 questions about anything we have said so far today.

7 DR. ZWOLAK: Bob Zwolak, Board Member.
8 Thanks. That was a great initial presentation. I
9 was wondering if you could provide a tiny bit of
10 detail about the \$23.5 million collaborative
11 project with NIH for hypertension and in particular
12 to the management. We do contracts. NIH, I think,
13 does grants. Is this a grant or contract? Is this
14 a model of collaboration? Have you worked out the
15 details of who is going to be managing this and how
16 the collaborative approach will work? Thank you.

17 DR. SELBY: I think I will ask Dr.
18 Hasnain-Wynia if she wouldn't mind answering that.
19 She has more details than I do.

20 UNIDENTIFIED: Joe, while she is coming
21 up, for the annual meeting, will any of those
22 sessions be webcast?

1 DR. SELBY: Yes. My impression is all the
2 general sessions are webcast. Correct me if I'm
3 wrong. Hi, do you need me to repeat the question?

4 DR. HASNAIN-WYNIA: No, I heard the
5 question. Thanks. This has really been a great
6 collaboration, and it was a collaboration from the
7 very beginning, from the development of the funding
8 announcement, and will follow through the
9 implementation and management of the trials.

10 The monies were delivered to NIH from
11 PCORI. NHLBI is the organization at the NIH that
12 is primarily responsible for managing the trials.
13 PCORI representation is on the Steering Committee.
14 We are managing and monitoring the milestones with
15 NIH.

16 The other piece of this that I think is
17 very important is this is a cooperative agreement,
18 not a contract, not a grant, something in between.
19 We are implementing an UH2/UH3 model, which means
20 after the first phase of the trials, we will review
21 the milestones and determine whether the second
22 half of funding will be delivered to each of the

1 awardees. We have instituted a way to make sure
2 that PCORI is very engaged and truly collaborating
3 with NIH in terms of the management of these
4 trials.

5 DR. KRONICK: Thanks. I am very excited
6 about this. It sounds like you have laid all the
7 ground work to make it work well.

8 DR. HASNAIN-WYNIA: Thank you.

9 CHAIRMAN NORQUIST: Harlan?

10 DR. KRUMHOLZ: First, I also wanted to
11 thank Bryan because his work has really been
12 remarkable in a period of challenge, and his
13 contributions to PCORI are much appreciated.

14 Joe, I just want to ask about the meeting.
15 Is there any news that is going to come out at the
16 meeting or are you thinking there is any messaging
17 for the press?

18 Is your goal more just around building the
19 community, which is a wonderful goal, but in
20 anticipation for the Board, I was just wondering if
21 there is anything that is going to be released or
22 if you have some top lines you want people to pick

1 up on, and is this something we are billing as
2 something we think the press will pick up on, or is
3 it really just more an inside PCORI kind of event?

4 DR. SELBY: I think we have been thinking
5 of it as a building the PCOR community, explaining
6 to the public much more about AHRQ's and PCORI's
7 joint mission in dissemination. I don't think we
8 see it as any new news. There is not going to be
9 any new news.

10 The keynote, I think, will really be an
11 update to the country and to the research and
12 patient communities on PCOR and PCORI at five
13 years. The open science will really hope to make
14 some progress in this difficult area, particularly
15 make some progress in pointing to ways that PCORI
16 can participate.

17 I think if there is any new news, one
18 thing is this will be a little more blatant, I
19 think, than we have been about PCORI's intentions
20 around open science. I think that is one area that
21 we really haven't discussed much at Board meetings
22 to date or in committees.

1 DR. KRUMHOLZ: When will that be most
2 evident in the meeting?

3 DR. SELBY: Thursday morning.

4 CHAIRMAN NORQUIST: We are ready for the
5 Dashboard.

6 DR. SELBY: We are ready and with immense
7 thanks as always to Michele Orza and to the whole
8 team, the evaluation and analysis team, and also to
9 Regina and the whole administration/operations
10 group, and to science, to engagement. Everybody
11 now participates in this Dashboard, and for people
12 like Harlan Weisman, who I think is not with us
13 today --

14 CHAIRMAN NORQUIST: He's not on the phone?

15 DR. SELBY: I haven't heard him.

16 CHAIRMAN NORQUIST: Harlan, are you on the
17 phone?

18 [No response.]

19 DR. SELBY: It's a holiday, religious
20 holiday. The real news is this Dashboard lays on
21 top of Dashboards in various sectors of PCORI. As
22 always, we look to you to give us suggestions for

1 evolving it further and making the information more
2 useful.

3 Today we are going to focus on four areas.
4 I will do three of them. I will do an update at
5 the top. We always have stories about the impact
6 of PCORI. I will address one of the two yellow
7 areas, the funds committed to research, because you
8 will see there is somewhat of a deficit. This is
9 the Dashboard through the third quarter, so since
10 we are now through the fourth quarter with three
11 days to spare, you have to remind yourself this is
12 really through the end of July.

13 Also, on the upper right, I will talk to
14 you a bit about improvements and evolution of our
15 measures, of how our funded projects are
16 progressing. The one on the bottom, the budget for
17 2016 and the shortfall of expenditures in 2015,
18 will be taken up in the next agenda item, which is
19 the budget. Regina will join me and Larry from the
20 FAC in presenting this.

21 Let's go to the very top item, the
22 interesting and useful information, which is

1 producing that is our main mission. I want to show
2 you the results of three published studies that
3 really exemplify three of the distinctive features
4 of patient-centered outcomes research or
5 comparative clinical effectiveness research PCORI
6 style.

7 One study is just a classic illustration
8 of how we weigh the benefits and the harms of
9 alternative choices to treatment to help patients
10 and clinicians make decisions. The second is a
11 very patient-centered aspect which is
12 individualized prediction of who will benefit, what
13 works for whom. Treatments may look like they work
14 on average but that average can hide real
15 differences in who benefits and who doesn't benefit
16 and may even be harmed. The third is what happens
17 when you really put patients on the research team.

18 These are three studies. You have heard a
19 bit about this study. This is Dr. Ron Keren from
20 CHOP, the pediatrics hospital in Philadelphia,
21 comparative effectiveness of using intravenous
22 antibiotics delivered through a catheter that goes

1 right onto the heart versus oral antibiotics in
2 children when they go home after a serious
3 bacterial infection. In this case, an infection
4 called osteomyelitis.

5 They are actually doing three studies and
6 this was the first one to be published. Their
7 award is not finished yet. The results, which were
8 published in JAMA Pediatrics at the very end of
9 last year, showed that antibiotic therapy delivered
10 orally versus that delivered with a PICC line or
11 this intravenous line were equally effective for
12 curing the primary infection.

13 The PICC lines, as people have known for
14 years, were associated with a 16 percent incidence
15 of severe adverse events, events like infections,
16 clots, even a catheter breaking off, that
17 occasioned kids coming back at least to the
18 emergency room and many of them being re-
19 hospitalized.

20 They also looked in stratified analysis.
21 They were particularly concerned that oral
22 antibiotics may not be as good in younger children

1 or those with MRSA infections, but oral antibiotics
2 had the same benefit in those younger children,
3 those with MRSA infections.

4 To quote the authors, "We found no
5 advantage of the more invasive PICC route. Given
6 the magnitude and gravity of the PICC related
7 complications, clinicians should reconsider
8 prolonged I.V. therapy when an effective oral
9 alternative exists." I am going to come back to
10 this study in a minute.

11 This is a study that illustrates
12 individualized prediction of benefit, what works
13 for whom. This comes from Jeremy Sussman at the
14 University of Michigan and David Kent from Tufts in
15 Boston.

16 This was basically a pilot project, a
17 reanalysis of the DPP, diabetes prevention program,
18 which was a large randomized trial that showed both
19 lifestyle interventions and the use of a drug
20 called Metformin, could remarkably lower the risk
21 for developing Type 2 diabetes in persons who were
22 judged to be at increased risk for developing type

1 2 diabetes. It is an intervention to prevent the
2 development of Type 2 diabetes.

3 The average results across the whole
4 population were that both Metformin and lifestyle
5 interventions were beneficial. Lifestyle
6 interventions were somewhat more beneficial than
7 Metformin. Metformin still reduced risk by about
8 38 percent, which is big.

9 The results of this analysis broke this
10 group of high risk people into four quarters, and
11 the four quarters were four quarters of risk, so
12 among higher risk people, there are some that are
13 nearly diabetic, they are at the highest risk, and
14 others graded at lower risk across the four
15 quarters.

16 What they found is the benefits of
17 Metformin were almost exclusively confined to
18 patients in that highest quarter of risk, so people
19 who were almost diabetic already, Metformin helped
20 them. There was absolutely no benefit, in fact, it
21 appeared there might even be a little harm in the
22 lowest quarter. These are high-risk patients but

1 they were at the lowest quarter of the high risk
2 patients. By contrast, the lifestyle intervention
3 gave meaningful protection, sizeable protection, in
4 all four quarters of risk.

5 Barbara?

6 DR. McNEIL: I don't remember that study
7 to be honest.

8 DR. SELBY: DPP?

9 DR. McNEIL: No, I remember the DPP. I
10 don't remember this reanalysis.

11 DR. SELBY: This is pretty new.

12 DR. McNEIL: Does this mean they were
13 actually giving Metformin to people with normal
14 blood sugars?

15 DR. SELBY: "Normal" is a strong word.

16 DR. McNEIL: Under 125.

17 DR. SELBY: Yes, absolutely. Metformin,
18 in fact, it has crept into practice for people with
19 impaired glucose tolerance, quite a bit of it is
20 used. This study says you will do much better with
21 lifestyle unless you are maybe with a fasting
22 glucose of 118 to 125. In the other three

1 quartiles, you should be focusing and you will get
2 more benefit from the lifestyle.

3 Their conclusion was patients at high risk
4 for diabetes have substantial variation in their
5 likelihood of benefitting from various diabetes
6 prevention treatments. Using this knowledge could
7 decrease over treatment. That is over treatment
8 with Metformin, and make prevention of diabetes
9 more efficient, effective, and patient-centered.
10 Very nice individualized prediction.

11 The third one is Dr. Adrian Hernandez from
12 Duke, involved elderly patients in a prospective
13 observational study of the real world effectiveness
14 of using Warfarin after patients have had an
15 ischemic stroke who are also found to have atrial
16 fibrillation.

17 We know in younger people Warfarin
18 dramatically lowers the risk of stroke in people
19 with atrial fibrillation. We did not have good
20 evidence about older persons, people who had a
21 stroke already and whether the benefits of Warfarin
22 really outweighed the risks of Warfarin, this blood

1 thinner, in these elderly patients who had many
2 comorbidities.

3 They are actually doing three studies,
4 antidepressants and statins are also being
5 investigated. They involve patients -- the
6 patients said we really don't like the outcome of
7 mortality and we don't like the outcome of
8 recurrent stroke, they are just not of that much
9 interest to us, but what we really care about is
10 the amount of time we are able to spend at home.

11 This study shifted the main outcome to
12 days spent at home during follow up. Probably the
13 first large outcome study to use this as an
14 endpoint. They also had quality of life. They did
15 have mortality. They had all cause readmission and
16 disease specific readmission. What they found was
17 in a cohort of 12,500 patients with atrial
18 fibrillation, post stroke, those that were started
19 on Warfarin before discharge enjoyed 47 more days.
20 That is almost seven weeks, more days at home,
21 during up to two years of follow up, as well as
22 lower rates of recurrent stroke and death.

1 These findings, I think, as the author
2 said, support the routine use of Warfarin for
3 eligible ischemic stroke patients with atrial
4 fibrillation, including those over 80 years of age,
5 women, those who have had more severe strokes, and
6 those with comorbid conditions.

7 I think the findings from this study
8 become easier to communicate to patients, that use
9 of this drug has been associated with a much
10 greater number of days spent at home during follow
11 up.

12 Those are three studies. Back to the
13 first study. Yes?

14 MS. HUNT: I know there is also these new
15 drugs that are like Warfarin that are newer than
16 Warfarin. Has there been any head to head
17 comparison on this topic with those new drugs and
18 Warfarin?

19 DR. SELBY: I don't think there has been a
20 head to head comparison yet in this particular
21 population of 80+ year old people who have had a
22 stroke. There have been a number of head to head

1 comparisons.

2 I will remind you we approved a targeted
3 funding announcement in this area, including a head
4 to head comparison of the new agents. I don't
5 think we have a comparison with Warfarin. I don't
6 believe we do. Barbara? BMJ. The first one was
7 in JAMA Pediatrics and the last two were in BMJ,
8 British Medical Journal.

9 Speaking now about disseminations. When
10 we saw the results of the Keren study about the
11 PICC lines, we worked with the American Academy of
12 Pediatrics and with a firm that does continuing
13 medical education and continuing education for non-
14 physician professionals. That was launched in mid-
15 June. It is a web-based video program targeted to
16 physicians, physician assistants, nurse
17 practitioners, pharmacists, nurses, care managers,
18 and health education specialists.

19 It has been up and running for three
20 months through the summer. The vertical bars on
21 the right show you the number of CME or continuing
22 education certificates that have been issued thus

1 far. Our first dissemination activity, if you
2 will. It was launched very quickly, as I think
3 these will have to be.

4 This is just an example of tracking the
5 use of information, so Altmetric is like the
6 Science Citation Index, but it goes into a little
7 more detail. It reported that this paper, Ron
8 Keren's paper, has been in the top five percent of
9 all the articles they have scored. They have
10 scored four million articles to date. It is in the
11 top five percent, almost 10,000 total views, 7,000
12 page views, and 2,784 PDF downloads.

13 Lastly, Dr. Keren reports to us that the
14 Pediatric Infectious Diseases Society is preparing
15 a new practice guideline on bone and joint
16 infections in children, and will consider the
17 findings of this PCORI study in developing its
18 recommendations. It is what we like to see, that
19 useful research has been taken up and considered by
20 guidelines developers.

21 One other nice piece of news, this is not
22 a publication, but this comes from the University

1 of Texas Health Science Center, San Antonio. PCORI
2 is credited by the Assistant Dean for Research in
3 Student Programs with motivating workshops that the
4 university has held on PCORI that led to
5 development of a listserv working group focused on
6 developing PCORI applications with about 130
7 investigators participating, and a day long in-
8 service on grant writing. KickStart or CLIK
9 awards, \$50,000 to new investigators who are
10 preparing patient-centered outcomes research
11 proposals, and particularly to fund meaningful
12 engagement with partners, patients, and others.

13 New policies also at the university, and
14 this has to happen at a lot of universities to
15 allow the hiring of patient or stakeholder partners
16 as experts on the university's payroll.

17 Patient-centered approaches to
18 applications for research to other funders.

19 Just all the kind of things we like to
20 see, UT, San Antonio has reported what is going on
21 there. One of the Chiefs of Community Recovery,
22 Research and Training said PCORI's approach has

1 changed everything about the way the university
2 thinks about research, a ripple effect that would
3 not have been anticipated.

4 I am going to go now to a blow up of that
5 first yellow box which shows through three
6 quarters, we are somewhat underspent. There has
7 been a lot of spending. "Underspent" is the wrong
8 word. Under committed. This is about committing
9 funds for new research. We will commit a lot of
10 funds. We did, I believe. PCORnet has already
11 gone through and some pragmatic clinical studies
12 were approved at our last Board meeting which was
13 in the fourth quarter, and we will approve a slate
14 of broad funding announcements and a slate of
15 Hepatitis C targeted proposals today.

16 We will have a large amount of commitment
17 in quarter four, but we will not commit as much as
18 we had proposed, which was over \$600 million, in
19 2015.

20 Based on discussions at the last Board
21 meeting, we have launched a large number of
22 inquiries, mostly through the SOC. You are going

1 to hear later today from Lori and Laura from our
2 Evaluation and Analysis group about some of the
3 work and some of the data collection and analysis
4 we have done in the application enhancement group.

5 We are looking at everything from the
6 applications, from what scientists say, to what
7 about scientists that aren't applying to PCORI, and
8 also into the merit review process, for ways to
9 enhance the number of applications and the number
10 of high quality applications that we get.

11 This just shows you that really the
12 shortfall is not in the targeted. We do well, and
13 we actually have overfunded slightly compared to
14 what we said. In the broad's and in the
15 pragmatics, when we tell you what our target is, it
16 is a function of adding several, up to \$56 million,
17 up to \$90 million, up to \$30 million, and any time
18 that any cycle falls short of that, it sort of
19 contributes to the overall shortfall.

20 You will see particularly in the pragmatic
21 studies, which is a surprise to us, we have not
22 been able to fund as many as we thought we would.

1 You will see more of that this afternoon. We will
2 continue talking about this. This is part of the
3 tweaking activities in 2015 and into 2016.

4 Now I want to talk a bit about measuring
5 the progress of research budgets. You have seen
6 this for several months. I am going to just take
7 you from left to right. The proportion of projects
8 meeting all milestones I have to say defies my
9 predictions. I thought it was mathematically
10 almost impossible to sort of catch up and go
11 forward, but by a very small number, we did in this
12 most recent quarter.

13 Still you see that only 33 percent of
14 projects meet every single milestone. I will say
15 that projects have numerous milestones.

16 In terms of recruitment of milestones, you
17 see a big up tick in the third quarter. I don't
18 think this is actually due to something that we
19 have done nearly as much as to just variation from
20 quarter to quarter. You will see if you look at
21 meeting recruitment milestones, we have like any
22 other funder of research observed that our funded

1 projects fall behind, particularly if these are
2 clinical trials.

3 The next one, I am going to go in more
4 detail, but this is the proportion of projects that
5 we funded that are in our judgment in the green
6 zone. I will tell you about the different zones.
7 The green zone is the zone we think means things
8 are on track.

9 DR. KRONICK: I'm just curious. The third
10 bar over in each of these, which represents Q-2, it
11 looks like there was a dip in Q-2 with a recovery
12 in Q-3, in the dark blue bar. Any reason in
13 particular for that?

14 DR. SELBY: I'll check with Michele to see
15 if anybody has ventured a hypothesis about that.

16 MS. ORZA: It could simply be a function
17 of the fact that it is a slightly different set of
18 projects each time, both in terms of new projects
19 coming on line and also projects that are due for
20 their six month report at that time.

21 DR. SELBY: I think even timing, we don't
22 necessarily time our activities to get every phone

1 call made by the end of a quarter necessarily.
2 There is a little bit of randomness from quarter to
3 quarter. I think that is probably what Michele is
4 saying.

5 A couple of things on this page. The
6 middle, the highest set is obtained IRB approval on
7 schedule. This is really gratifying to me that a
8 large majority of projects have not put that
9 forward as something they are having trouble with.

10 The next shows the beginnings of our work
11 on projects that are falling behind, so you see a
12 small number in each quarter and maybe a little bit
13 of a rise lately in the contract modifications that
14 are approved with regard to milestones, that is
15 moving milestones after discussions with
16 investigators. Contract modifications for time
17 extensions, we are beginning to extend the time of
18 some contracts based on discussions with the
19 investigators.

20 To the right, it just shows there are a
21 very small number of projects where we have
22 actually had to hold funding for programmatic

1 reasons because they have fallen so far behind.
2 The last one, terminated. Undoubtedly, there will
3 be some projects that are terminated simply because
4 they did not work out. You would expect this with
5 400+ projects underway. I think the next time we
6 show this, those numbers will be larger than zero.

7 This is a metric that was developed in
8 consultation with science staff to grade projects,
9 as a way of consolidating metrics in a way we think
10 is meaningful. If you are in the green, your
11 project is in the green, that means your
12 recruitment target is greater than at least 75
13 percent of your target, and you have hit at least
14 85 percent of all milestones, and the PO has
15 indicated confidence in the project, no concerns.
16 There, those are the ones in our view that are
17 doing well, continued monitoring is the indication.

18 The yellow is the first sign things might
19 not be going so well, your recruitment is between
20 50 and 75 percent, or your milestones met are
21 between 65 and 85 percent, or the program officer
22 has noted some concerns. There, you need to begin

1 increased communication with the awardee.

2 Orange is worse, 25 to 50 percent
3 recruitment or 50 to 65 percent of milestones met,
4 or serious concerns by the program officer,
5 modifications for the milestones schedule are going
6 to be required likely. Modifications get pursued.
7 Red is worse than that. Significant concerns,
8 project may be placed under review, and a draft
9 project remediation plan is needed.

10 This is the way it looks. Yes?

11 MS. HOLE-MARSHALL: I just had a question,
12 do you mean on the time frame that was initially
13 agreed to?

14 DR. SELBY: I think "target" means at a
15 certain date you will be at a certain point.

16 MS. HOLE-MARSHALL: Even if you are in
17 green and at 75 percent, the expectation is still
18 you will get to 100 percent.

19 DR. SELBY: Yes, you're a little bit
20 behind maybe, it could easily be rectified.

21 MS. HOLE-MARSHALL: Thank you.

22 DR. SELBY: I should just say from now on,

1 I think reporting to you on the proportion of
2 projects that are in this green zone will be one of
3 the key milestones or key milestone summaries that
4 we will present to you on the Dashboard.

5 This just shows the first two quarters.
6 This reminds me of a nice healthy salad with the
7 predominance of green but also some red, yellow,
8 orange veggies. You will see most of the projects
9 are indeed in the green zone in both quarters and
10 small numbers in yellow and even smaller numbers in
11 orange and red.

12 MS. HOLE-MARSHALL: Joe, using that slide
13 but then going back to the slide about where the
14 projects are in terms of renegotiating and then
15 there was zero, I think, in terminations. How long
16 would you stay in red before you need to seriously
17 consider removal?

18 DR. SELBY: I think you begin considering
19 it as soon as you hit red, I think, but it is a
20 very serious step to terminate a project, and it
21 actually has some procedures/processes you have to
22 go through, and a lot of discussion with the

1 institution and investigator, too. It takes a
2 while. It takes several months, I think, really to
3 get from seeing the red to making a termination, if
4 the remediation plan doesn't work. I don't think
5 we have a rule of thumb about how long.

6 MS. HOLE-MARSHALL: I think in addition to
7 seeing those that are in green, I would be
8 interested in learning more about whether we are
9 terminating at all. I think a healthy organization
10 has to acknowledge that some projects aren't going
11 to be successful, and that is not necessarily a
12 reflection even on those particular investigators.
13 It could have been an issue of recruitment that was
14 not known at the time. I do think we need to make
15 sure we are able to make tough choices.

16 At some point I suspect we wouldn't allow
17 folks to remain in that red without actually moving
18 to that step. I do understand proceeding with
19 caution.

20 DR. SELBY: I definitely agree that we
21 will be showing the proportion in red and
22 proportion terminated going forward.

1 CHAIRMAN NORQUIST: At NIH, they do that
2 very similarly. You do need to have a cut off
3 point at some point where you decide at this
4 particular time point, we are basically going to
5 say that's it. I don't know what that is but that
6 is something to think about.

7 DR. SELBY: That's a good point. I'll
8 take that back to the team.

9 DR. SIGAL: I would agree, and I agree
10 strongly with Leah as well. Oversight and
11 enforcement is really important in meeting
12 expectations and having the ability if they are not
13 to really intervene early is really important.
14 Lots of clinical trials I see started, their stated
15 goals never get met, and frankly there isn't a lot
16 of ability to basically say you're not meeting
17 goals and if you don't, there will be consequences.
18 I think this is a very big issue in academic
19 institutions.

20 When you say the green's are meeting
21 goals, how often are we monitoring this? What is
22 the time frame? Do you do it quarterly? When do

1 you basically decide on their meeting goals? What
2 is the mechanism that we have?

3 DR. SELBY: My impression is quarterly.
4 Let me check with Michele.

5 MS. ORZA: The formal reporting is done
6 through a six month interim progress report, but
7 the project officers are in much more continuous
8 communications with the PIs, especially if they are
9 in the yellow, orange, or red zones. Recruitment
10 is monitored much more closely, more like monthly.

11 DR. SELBY: This is just a little bit of
12 data on recruitment. Of the 190 projects that have
13 involved recruitment, as of quarter three, 31 had
14 not yet started recruiting, 136 are in recruitment
15 now, and 23 have finished recruitment.

16 Did the recruitment initiation start on
17 time, and the answer is for 58 percent, no, it was
18 late. For the remainder, it was either on time or
19 even a little bit early. Delays in finishing the
20 protocol, the intervention protocol, and IRB delays
21 were the two most common reasons for delay in
22 getting recruitment started. Sites withdrawing

1 after randomization, and you can see the others
2 there.

3 There is a milestone. There are
4 milestones in the contract. These are contracts.
5 There are milestones in the contract and it meant
6 it fell short of the milestone.

7 DR. McNEIL: It strikes me that
8 recruitment is the most important thing we do.

9 DR. SELBY: Yes.

10 DR. McNEIL: We are not going to get
11 anywhere unless we have recruitment. I can imagine
12 I could write a PCORI grant and have fairly
13 generous milestones for myself, and I enroll the
14 first patient four months after --

15 DR. SELBY: The milestones are negotiated
16 before the contract is signed. They are not what
17 somebody writes in the grant.

18 DR. McNEIL: I would love to know, and
19 maybe Michele can do this for a subsequent meeting,
20 tell us exactly what is "late," by how many months,
21 and what the percentage is for those distributions.
22 It strikes me that the IRB delays -- those IRBs are

1 terrible.

2 DR. SELBY: Michele just reminded me that
3 we have some information there. I can't tell you
4 the definition of "late" but I can tell you
5 quantitatively the length of the delays. Most of
6 them, the real majority of them, are three months
7 or less. These are the number of projects. Well
8 over half of them are three months or shorter.

9 DR. McNEIL: It strikes me that if a
10 protocol or project, there are five of them, are
11 nine or more months late, why would we continue
12 funding them? This might be a rhetorical question
13 or maybe it's not rhetorical. Nine months is a
14 long time. They are eating away a big chunk of
15 funding.

16 MS. HUNT: I will say this based on a
17 national trial that we are doing --

18 CHAIRMAN NORQUIST: Barbara, you are
19 making a comment, but I didn't know if you had
20 another question.

21 DR. McNEIL: [Inaudible.]

22 CHAIRMAN NORQUIST: You need your

1 microphone.

2 DR. McNEIL: I'm sorry. Why wouldn't we
3 eliminate people, the 15, 13, 12, 10, and 9, and
4 maybe even ask about the eight-month delays? Those
5 seem extraordinarily long. It could have been
6 another grant that could have been given that would
7 have started just like that.

8 DR. SELBY: We will prepare this --

9 CHAIRMAN NORQUIST: I think we do need to
10 know the particular situation, but I would
11 absolutely agree. When I was NIMH, we had this as
12 a big issue. We set a rule basically that if you
13 didn't meet your targeted goal by recruitment
14 within six months and we gave you like the next
15 quarter, you were cut off basically, for the very
16 reason we are missing an opportunity to fund other
17 people. Ellen?

18 DR. SIGAL: I agree strongly. I will tell
19 you based on a national trial that we are doing,
20 the IRB is a huge issue, but often if you're using
21 the central IRB, even if people will use it, the
22 institutional review and institutional commitment

1 is also another issue. Even if you have it, what
2 we are finding is different institutions may want
3 their own review which adds two to four months.

4 I actually strongly agree that after six
5 to nine months, if you don't recruit, you're gone.

6 CHAIRMAN NORQUIST: Bob and Debra first.

7 DR. BARKSDALE: I actually have a
8 different question.

9 CHAIRMAN NORQUIST: Bob?

10 DR. ZWOLAK: I don't disagree at all with
11 the comments made. These can be very good studies.
12 These are good people. Sometimes they have set
13 their recruiting goals too high. If they're not
14 doing anything, I agree they should be cut off. I
15 think that is a pretty aggressive terminal step
16 that would be taken.

17 My question is do we have an appropriate
18 process and counseling in between so we can avoid
19 that. As wonderful and kind a human being Mike
20 Lauer is, he has a whole team of people working for
21 him that are kind of the enforcers, I think, that
22 make sure people try to toe up to the line in the

1 NIH trials. Do we have that mechanism set up?

2 DR. SELBY: I think we actually do. I
3 think we have very clearly written out procedures
4 for dealing with both late projects and projects
5 that approach the need for termination. Again, we
6 will come back to you next time.

7 DR. BARKSDALE: On the previous slide,
8 what does "restrictive enrollment criteria" mean?

9 DR. SELBY: I think it means somehow the
10 investigators had settled on a set of enrollment
11 criteria that made it very hard to find eligible
12 patients.

13 DR. BARKSDALE: I guess my problem is they
14 set the criteria, then you can't use the criteria
15 that you set as a reason for why you can't enroll.

16 DR. SELBY: We approved them, too. I
17 think sometimes you live and learn. The real world
18 can surprise you once in a while.

19 MS. ORZA: Joe, on the ones that are
20 severely behind, the next slide shows one,
21 sometimes projects do catch up. Two, all the ones
22 that are six or more months behind are in the

1 yellow, orange, or red zone, and they are under
2 discussion. They are either having their
3 milestones modified or they are getting an
4 extension or they are being terminated. Those are
5 all being looked at closely.

6 DR. SELBY: Thanks, Michele. I wanted to
7 say this one just shows nicely that whether you got
8 your recruitment started on time or not, had no
9 predictability for whether you finished recruitment
10 on time or not. There is just no association, it's
11 a wash.

12 This is the last slide. Anything else?
13 Great discussion already. We will really come back
14 to you with details about our processes for
15 managing awards that fall behind.

16 CHAIRMAN NORQUIST: Leah?

17 MS. HOLE-MARSHALL: Another metric that
18 would be useful is if we are modifying, there
19 should be a different slide for the ones that have
20 a modified contract. If you modify the terms and
21 then they are suddenly on time, it would be
22 appropriate. Obviously, there was a contract

1 negotiation to do so and everyone felt that was an
2 appropriate thing to do. It hides what has changed
3 versus what has always stayed on time. Having
4 those as a separate one would be useful.

5 CHAIRMAN NORQUIST: I agree.

6 DR. KUNTZ: One other metric just to re-
7 update the completion date and publication date.
8 That would be a more realistic and practical
9 reminder to everybody, I think it would be much
10 more of a reality check to see if this study
11 continues at this rate, it won't be done until
12 2025, as opposed to just the single variable are
13 they behind in recruitment.

14 CHAIRMAN NORQUIST: Okay. Thanks. We
15 have been asked to please make sure people use
16 their microphones and say their names, people
17 listening on the phone are having a hard time
18 following.

19 Joe, is that it?

20 DR. SELBY: That's it.

21 CHAIRMAN NORQUIST: Thanks very much. The
22 next item on the agenda is consideration of our

1 annual budget. Larry Becker, who is chair of our
2 Finance and Administration Committee, and Regina
3 Yan, who is our Chief Operating Officer. Larry?

4 MR. BECKER: I just wanted to thank a
5 whole host of people, starting with the finance
6 team, the members of the FAC, the committees of
7 jurisdictions for each of these elements. It just
8 keeps getting better, and key people are focused
9 and getting more focused on all these topics.

10 I think you will see as a result of the
11 presentation Regina is going to make in a moment, a
12 lot of work went into this. I think it is getting
13 clearer and clearer and I think we are getting a
14 really good handle on the inflows, the outflows,
15 and what our future holds in terms of the finances.

16 While we have all identified the issue of
17 not being able to maybe put out as many projects as
18 we would have liked, we have a good handle on
19 financially how to address that.

20 With that, Regina?

21 MS. YAN: Thank you, Larry. Today we are
22 presenting to you our proposed 2016 budget for your

1 review and approval. First, we would like to go
2 over the key items on the agenda today. We will
3 review some of the key definitions of terms. We
4 will be looking at budget development processes
5 that we have taken, what happened before we got to
6 this point, and then we will look at the 2016
7 proposed budgets. We will also look at our award
8 commitment plan, our cash balance, as well as our
9 2016 staffing plan.

10 First, we want to go over some key terms.
11 These terms are quite important in understanding
12 the materials that will be presented and things we
13 will be discussing.

14 One is "award commitment." Award
15 commitment refers to the amount of funding PCORI
16 intends to award or the funding we have already
17 awarded. Most of these awards are made in the form
18 of multi-year contracts for research,
19 infrastructure, and engagement awards, the three
20 major components of the awards that we make.

21 This only refers to the funding commitment
22 that we make. That means every time we are

1 bringing to you a slate of projects for you to
2 approve, once you approve it, that is considered a
3 commitment. The commitment is counting the entire
4 amount that is committed at that time. Even though
5 it is multi-year, the expenditure will take place
6 over a number of years.

7 We talk about award expenses. Award
8 expenses refers to the actual expenses incurred for
9 the projects we fund over a number of years. When
10 we look at a budget, the number you see is the
11 expense. That means for all the projects that were
12 funded, what would actually be the expenses that we
13 would see during that fiscal year.

14 Once you approve the awards, we consider
15 that commitment. Then the staff would proceed to
16 negotiate and execute the contracts. Once the
17 awardees start the projects and they start sending
18 in the invoices and seeking reimbursement, that is
19 where the expense comes in.

20 These are very distinctive different
21 categories/terms we need to bear in mind.

22 Another one is program support. Program

1 support is in the budget. That refers to all the
2 operating costs associated with science,
3 engagement, dissemination, and contract management
4 departments. These are the key departments that
5 actually directly deliver a program.

6 Program support is important because
7 generally with non-profits, all the costs are put
8 into three categories. It tends to be program
9 services, administrative expense, and fund raising.
10 Of course, at PCORI we don't have fund raising. We
11 have broken out program expenses or program
12 services into award expense and program support.
13 These are very consistent terms for non-profits.

14 How did we come to this point with our
15 budget and what kind of processes did we take to
16 prepare it. First, in 2013, the Board approved our
17 strategic plan and also three-year priority
18 activities, from 2013 to 2015. The priority
19 activities simply are the major activities that we
20 plan to implement in order for us to really meet
21 our institutional objectives.

22 Early this year in February the Board

1 reviewed the strategic plan again and we also
2 developed our 2016 to 2018 priority activities.
3 Based on that, the staff drafted an operating plan
4 for 2016 as well as the budget that goes with it.
5 It went through internal review at the staff level,
6 going through all the chiefs, and then over the
7 summer we also review our draft budgets with FAC as
8 well as all the relevant committees so you can give
9 us feedback early on so we can incorporate all that
10 feedback and questions into our final budgets.

11 Today we are bringing to you the proposed
12 2016 budget for your approval. Here is our
13 proposed 2016 budget. These represent our
14 estimates/projections of our revenue and
15 expenditures for 2016. For revenue, we are
16 projecting \$491 million, which includes three
17 separate streams. PCORI's revenue comes in three
18 forms. One is appropriations, which is \$120
19 million a year. The second is CMS transfer, and
20 the third is PCOR fee.

21 As far as the PCOR fee, it is still a
22 relatively new fee. We use the estimates from CBO,

1 and sometimes because it is still new, the
2 estimates get refined and adjusted over time. For
3 example, in 2015, in our original budget we were
4 projecting our revenue at \$462 million. At the
5 end, we got \$422 million, so a difference of \$40
6 million.

7 What we do is we base on the closest
8 estimate/information that we have, and as time goes
9 by, we make an adjustment based on information we
10 have.

11 If we look at the expenditures for award
12 expense, 2016, \$331 million, which represents 78
13 percent of our total budget. Program support, \$53
14 million, which is 13 percent. Both award expense
15 and program support we consider program expense.
16 Administrative support is \$38.9 million, which is
17 about nine percent of our total budget.

18 I will go over the details a little bit
19 comparing it to our 2015 budget as well as 2015
20 projected expenses. Here we are comparing our 2015
21 budget that the Board approved, as well as the 2016
22 budget we are proposing to you. One thing I do

1 want to note is the 2015 budget was prepared last
2 summer, a year ago, and obviously we need to look
3 at what we think the actual expenditures will be.

4 If we are looking at the 2015 budget, we
5 had a total budget of \$361 million that the Board
6 approved, and we are proposing the 2016 budget at
7 \$423 million, which is a \$61.9 million increase
8 from budget to budget.

9 If you compare the two budgets, you may
10 note that between 2015 and 2016, we are looking at
11 a \$59 million increase in award expenses, and
12 obviously as we continue to make awards, make
13 commitments, we will see those expenditures coming
14 in, award expenses will increase.

15 We are actually asking for \$7 million less
16 this year for program support, when we are
17 comparing 2015 and 2016 budgets. The main reason is
18 because in 2015, when we are looking at the budget
19 and actual expenditures, program support is one
20 area that the actual expense is much lower than the
21 budget. I will explain a little bit more later
22 why.

1 Administrative support, increase of \$9.4
2 million, mainly because 2015 was a year of high
3 growth for PCORI, so we had significant staff
4 growth in 2015, and we will be seeing those coming
5 in in 2016, that is expected as we approved the
6 plan for growth in 2015.

7 I am going to move on to talk about 2015
8 projection and 2016 proposed budgets. What is a
9 projection? Basically, this is a forecast about
10 expenditures for the year. We look at our actual
11 expenditures through June and July. That is the
12 time we were preparing our budget. We just closed
13 August. We won't know about the total year end
14 expenditures until probably November, with some
15 preliminary, and in February, of course, the
16 auditor will be presenting to you our actual
17 audited financials.

18 We looked at our actual expenditures
19 through July, and then we make an estimate of what
20 our expenditures in August and September will be,
21 and that is how we come up with the 2015 year end
22 projection of expenses.

1 For the 2015 projection, we are projecting
2 total expenses at \$312 million, 80 percent in award
3 spends, nine percent in administration, 12 percent
4 in program support. With 2016, the proportion is
5 more or less the same. However, total expense
6 going from \$312 million to \$423 million.

7 Here we are looking at our projections for
8 the total expenses for 2015 comparing to 2016. For
9 2015 we are projecting \$312 million, which is about
10 13.7 percent less than our budgets, and it is
11 expected our actual expenses will not always be
12 exactly what we budget. I think within 15 percent
13 is probably okay. We obviously would like to be
14 much closer. I think moving forward as we have
15 more historical data with our spending, it will
16 help us be more accurate and more precise in our
17 planning of costs.

18 The last couple of years have been very
19 challenging because we have a lot of new staff, a
20 lot of new activities. It was a little bit hard to
21 project timing, how long things would take and how
22 much it would cost. Progressively, we have a much

1 better handle on our costs.

2 If we look at 2015, if we compare the
3 three categories of costs, we were pretty close
4 when it comes to award spends and administrative
5 support. It is the program support part, we were
6 almost like 40 percent below our original budget.
7 That is an area that we are trying to focus more
8 on, examining it to help us plan better. Partly
9 because a lot of the activities could take longer.
10 We have a lot of new staff joining us. I do expect
11 that moving forward progressively, we will have a
12 better handle on those costs.

13 Another thing is if we look at contract
14 management, our budget was \$11 million for 2015,
15 and actual costs, \$6.2 million, mainly because a
16 lot of the activities in contract management, which
17 is merit review and all those things, we have done
18 it for quite a few years, and we are able to
19 streamline those activities. We are able to enjoy
20 a lot of cost savings in those areas. As a result,
21 the budget for 2016 is almost level, a very modest
22 increase.

1 If you look under program support, there
2 is an \$11.5 million increase in science, program
3 development and evaluation. One thing is because
4 in 2015, that is the year that we have the most
5 significant staff load, that we brought in a lot of
6 staff to do the work that needs to be done. As a
7 result, we anticipate the costs from that is going
8 to show up in 2016.

9 We anticipate that there is a significant increase
10 between 2015 and 2016.

11 A lot of that represents the additional
12 staff we brought on and also some new activities we
13 have to do. We talk about peer review,
14 dissemination, all that work we must do.

15 Another line item that we are seeing
16 increase is in management in general, \$11.4 million
17 increase. What drives that increase is 50 percent
18 of that increase is in personnel, but it is not all
19 personnel in administration because more than 60
20 percent of personnel are staff in the program
21 support area. A portion of the costs is considered
22 administrative activities, like staff meetings,

1 things like that, so a portion of all those staff
2 costs get allocated to administrative support.

3 Twenty percent of the cost increase is in
4 IT infrastructure. One thing is IT infrastructure
5 is not used simply by PCORI staff. We need to
6 support a significant IT infrastructure for all our
7 external stakeholders, all our applicants are using
8 our on line system to submit applications.
9 Reviewers are using our on line system to do merit
10 review. Annually, we have people applying to serve
11 on our advisory panel. All that IT infrastructure
12 needs to be maintained and supported. Again, it is
13 not simply used by PCORI staff, but all the
14 stakeholders who participate in PCORI activities.

15 If you look at the 2016 budget, 78 percent
16 of that is in award expense, 13 percent in program
17 support. A lot of that increase is related to a
18 lot of new activities that we have to support, some
19 new portfolio's we have to support, and nine
20 percent in administrative support in 2015 and also
21 2016.

22 What is nine percent? Is it good or bad?

1 We have done some benchmarking. Of course, no two
2 organizations are exactly the same. We do the best
3 to look at several similar organizations. The
4 benchmark, 11 percent. I think we compare quite
5 favorably at nine percent. Of course, our
6 objective is to be able to do the most and most
7 efficiently. We will continue to monitor our
8 administrative support expenses.

9 I know the Board is not only interested in
10 2015 and 2016, you are also interested in seeing
11 the out years, over time, what our planning looks
12 like. Here we are looking at revenue and expense.
13 The green bar shows our revenue. We know our
14 revenue more or less except for the exact amount of
15 the PCOR fee.

16 We know we have revenue through 2019. The
17 green bar stops at 2019 because that is the period
18 of the revenue that we know at this moment. In
19 2013, we presented to the Board a couple options
20 about how we plan to spend the revenue we know.

21 The Board made two decisions. Number one
22 is we want to fund as much research as early as

1 possible, so we can get results as soon as
2 possible. Second, we also want to make funding
3 available all the way through 2019.

4 Based on those two guidelines, we planned
5 out our revenue and expenditures. You see the
6 revenue stops in 2019 because that is the period
7 that we know what our revenue will be, and then
8 when we make a commitment all the way through 2019,
9 we will see the award expenditures being spent over
10 time. Assuming we make a three year award in 2019,
11 the project would take place in 2020, 2021, and
12 2022, and finish all the project activities. In
13 2023, we have an one year period to do peer review
14 and dissemination and then we close everything out
15 in 2024. This is our projection through 2024,
16 looking at our revenue and expenditures.

17 Of course, the core of our program and
18 activity is funding research with funding
19 commitments. This is our funding commitment
20 through 2019. We plan to make funding awards in
21 the amount of \$2.5 billion, 84 percent will be in
22 research, 11 percent in infrastructure, PCORnet.

1 Any demonstration project, research project, that
2 is done within PCORnet goes into the research
3 column because that is considered research. Five
4 percent in engagement and dissemination.

5 Based on that plan, at the end of 2016, we
6 expect to have awarded \$1.8 billion. That is 71
7 percent of the total \$2.5 billion, what we plan to
8 commit.

9 I think this plan probably meets our
10 objective of funding as much research as we can
11 early on.

12 This shows the composition of our
13 commitments in 2016 for research infrastructure.
14 Engagement is a very small portion. We are not
15 including that here. For 2015, 50 percent is in
16 targeted and pragmatic. In 2016, those two
17 categories go up to 62 percent.

18 CHAIRMAN NORQUIST: I am sorry to push
19 you, we need to have some time for discussion.

20 MS. YAN: I can go quickly. This shows
21 our accumulative award commitment and award
22 expenses. Since we make commitments early on and

1 it gets spent over time, you see in 2016, there is
2 a big gap between commitments and expenses, which
3 you will see in the next two slides.

4 For example, at the end of 2015, our cash
5 balance will be \$737 million. We have a spending
6 obligation of \$800 million. Of course, that would
7 not create a cash flow problem for us because the
8 outstanding obligation is paid out through a number
9 of years. We are not sitting on all the money, it
10 is all obligated.

11 At the end of 2016, our cash balance would
12 be \$805 million, and we would have over \$1 billion
13 in outstanding obligations.

14 The last one is our staffing plan. We
15 have 24 positions in 2015. We are proposing
16 another 33 positions, many to handle new activities
17 in peer review and dissemination. You can see that
18 75 percent of the new positions is in science,
19 engagement, and contract management. At the end of
20 2016, we will be looking at 257 positions.

21 That is the end of the presentation.

22 CHAIRMAN NORQUIST: Larry, did you want to

1 say anything? Then I will go to Harlan.

2 MR. BECKER: He can go ahead.

3 CHAIRMAN NORQUIST: Harlan?

4 DR. KRUMHOLZ: Thank you very much,
5 Regina. We appreciate all your hard work on this.
6 We know it's a lot. To Larry, the committee, and
7 everyone else that has been involved, because this
8 is not easy.

9 I just have a couple of quick questions.
10 One is just personal interest. When we are done,
11 what will have been the amount of money that will
12 have been allocated to us in total? Do you have a
13 projection on that?

14 MS. YAN: \$3.3 billion.

15 CHAIRMAN NORQUIST: That's an estimate,
16 remember, even next year, it's a projection, we
17 don't know exactly how much we will get.

18 DR. KRUMHOLZ: I was just wondering. I
19 have generally been seeing \$2.5, I didn't realize
20 the projection is \$3.3. What percentage of that,
21 given what you are seeing here, will have gone to
22 research at the end?

1 MS. YAN: It is \$2.5 billion of funding
2 commitment, that is the award amount we are looking
3 at.

4 DR. KRUMHOLZ: \$2.5 of \$3.3?

5 MS. YAN: Correct. \$800 million goes into
6 program support, that means people who actually
7 oversee all these awards, contract management, and
8 administrative support.

9 DR. KRUMHOLZ: That \$2.5, that includes
10 PCORnet. I would consider that actually research
11 awards. That \$2.5 includes PCORnet?

12 MS. YAN: The \$2.5 includes PCORnet, but
13 not including PCORnet engagement, it is \$2.1.

14 UNIDENTIFIED: The \$2.5 is all hard
15 research, not administrative or other contracts or
16 other things?

17 MS. YAN: It is all to the awardees, what
18 you approve.

19 DR. KRUMHOLZ: The \$800 million is for the
20 other.

21 MS. YAN: Program support, administrative.

22 DR. KRUMHOLZ: The \$2.5 is going to

1 research.

2 MS. YAN: The \$2.5 includes research,
3 infrastructure, and engagement, and \$2.1 is purely
4 research.

5 DR. KRUMHOLZ: Just curiosity, our money
6 that sits in the bank, is that put anywhere? What
7 happens to that?

8 MS. YAN: The majority of our money is in
9 the PCOR Trust Fund, it sits in the treasury. We
10 only draw whatever we need. We do have money we
11 kept in the operating bank account, but most of it
12 is in the PCOR Trust Fund.

13 DR. KRUMHOLZ: I do want to make just one
14 general comment for the public, how hard it is to
15 benchmark the percentage that goes to direct
16 research because we started from zero.
17 Benchmarking against an established organization
18 that is in a steady state versus one that is
19 building up from nothing, I don't know what the
20 right benchmark is, but I just want to make a
21 public comment that is a difficult thing to do
22 given our history and what we have tried to do.

1 In that spirit, one thing, and this is
2 just for the whole group to think about, I'm just
3 thinking about how much of what we have done can be
4 repurposed or made available for the public good
5 when we are done.

6 For example, if we spent a lot of money
7 developing software programs for people to submit
8 grants, is that open source, can we just give that
9 away? There is some possibility and I think we are
10 all hopeful that we can continue, but even if we
11 can continue, there may be ways for us to make
12 available things that we have invested in so that
13 no matter what, some marginal costs that someone
14 might pay, they can take advantage of the kind of
15 things we have developed, if someone wants to start
16 a new foundation.

17 These are the kinds of things that we can
18 find additional purposes for the policies and
19 procedures, and all that work to build an
20 organization can be available to someone else who
21 might want to do this, anywhere in the world.

22 It is just an idea for us to be thinking

1 about, there is stuff that we have done, we felt
2 the same way about research, how can we have
3 reasonable research networks. I think when we are
4 going into an investment in an organization, we
5 should think about reusable, anything that is
6 reusable in what we have created, we ought to be
7 seeking ways to ensure other people have access to
8 it.

9 Thank you, Regina.

10 CHAIRMAN NORQUIST: As you point out, it
11 could be somebody starting a foundation today; yes.
12 That is a good point.

13 DR. JESSE: I'm sorry if I missed this.
14 In Joe's Dashboard, we were under allocating
15 research money, and yet we are sitting against an
16 allocated budget. What happens to the money that
17 doesn't get spent in a particular budget year that
18 was otherwise allocated to go out?

19 MS. YAN: Because we have our commitment
20 plan all the way through 2019, every year we make
21 some adjustments. If we have in one particular
22 year, when it comes to commitments, that we are not

1 committing up to the limit we thought we would,
2 then it goes to the following year. Sometimes some
3 of those are already in the works but maybe does
4 not make it to the fiscal year.

5 If you are talking about program support,
6 say under spending --

7 CHAIRMAN NORQUIST: Wait Regina, I think
8 his point is we propose to spend a certain amount
9 and then we don't. I think what happens is we
10 recommit that, like some of these new RFAs we want
11 to do, program announcements, or something like
12 that.

13 DR. SELBY: We aim, since 2013, we have
14 aimed to commit more than we have taken in. We
15 have more obligations than we have revenue through
16 the end of 2015. We actually fell short. We
17 actually intended to commit more and to have a
18 greater discrepancy at this point, so the shortfall
19 is in commitments. What actually happens to the
20 money, it stays in the Trust Fund until the
21 researchers we have committed to invoice us.

22 We're not like a Federal institution which

1 has to spend its money by September 30.

2 DR. JESSE: If we don't commit what we
3 allocated, say we don't fund as many grants as we
4 expected to fund, which was my sense of what was
5 happening there, that just is more available into
6 the future.

7 DR. SELBY: Yes. The initial projection
8 that we drew in 2013 had us committing less than
9 \$90 million in 2019, just really getting down
10 there. I think now it has flattened a bit. We are
11 still committing in advance of our revenues, but it
12 is not as extreme as we thought. There is an up
13 side and down side to that.

14 DR. KRONICK: Joe, just an important
15 caveat to Bob's question, that is all true up until
16 2019, when the Trust Fund gets turned off. That is
17 why I think it is very important that we follow a
18 trajectory that allows us to make the total number
19 of commitments by that time.

20 MS. HUNT: I would just like to suggest
21 that we really be sure, now that we are moving
22 along and we have results that are starting to come

1 out of our research, and that's going to continue,
2 we need to be sure we are appropriately and
3 strongly staffed up for engagement and
4 implementation and dissemination.

5 I don't see a lot of that in here. I see
6 a couple of additional positions being added. I
7 think that is really important, that we give the
8 public the understanding that we are going to be
9 moving to disseminate what we are coming out with
10 as results. As you mature as a research
11 organization, we have to be focused more on that.

12 MS. YAN: So far we have not had a lot of
13 dissemination expenses yet, we are starting in
14 2016. As you mentioned, we have new positions for
15 that. It is our plan that in 2017 to show those
16 expenses to you.

17 CHAIRMAN NORQUIST: Bob?

18 DR. ZWOLAK: Following on Gail's comment,
19 I know we are obligated by the law to do peer
20 review and release our results. In the last six
21 months, there was an estimate that it would take
22 six to nine months for our results to make their

1 way through the peer review process. Is that a
2 limitation based on the number of people you are
3 hiring or is that a real limitation, is it a
4 limitation based on number of people you are hiring
5 or is it a limitation purely due to the complexity
6 of the process?

7 DR. SELBY: Complexity of the process
8 entirely. Think about when you submit an article
9 to a journal and it takes back and forth between
10 you and the reviewers, sometimes a couple of times.
11 There may actually be more negotiation when you are
12 negotiating about the final report that we are
13 going to put on our website, sometimes it is
14 incumbent on the investigators to actually make
15 changes and get back to us, we take a look at it
16 again. It takes a bit of time.

17 We also give them sort of a period of time
18 at the beginning to finalize the report, the draft
19 report, before they submit it to us. I think that
20 is just a realistic estimate of the time for the
21 peer review process to take place.

22 MS. YAN: However, peer review does not

1 prevent the investigators from publishing their
2 findings somewhere.

3 CHAIRMAN NORQUIST: Any other comments?

4 [No response.]

5 CHAIRMAN NORQUIST: I need a motion to
6 approve the budget.

7 UNIDENTIFIED: So move.

8 UNIDENTIFIED: Second.

9 CHAIRMAN NORQUIST: Any further
10 discussion?

11 [No response.]

12 CHAIRMAN NORQUIST: The way we will vote
13 is I just need you to raise your hand in the room
14 if you are in favor of the budget.

15 [Show of hands.]

16 CHAIRMAN NORQUIST: On the phone.

17 DR. DOUMA: Aye.

18 CHAIRMAN NORQUIST: Freda?

19 DR. LEWIS-HALL: Aye.

20 CHAIRMAN NORQUIST: Harlan Weisman, I do
21 not think is coming on until after lunch. Anybody
22 opposed in the room? Anybody abstaining?

1 [No response.]

2 CHAIRMAN NORQUIST: Thanks. Thanks,
3 Regina and Larry, and to the committee also, who
4 did a good job.

5 MS. HOLE-MARSHALL: Gray, can you just
6 announce for people on the phone that it passed?

7 CHAIRMAN NORQUIST: It passed, for those
8 of you on the phone. Thank you, Leah.
9 Unanimously, I should point out. The next item is
10 slate of spring 2015 broad awards, broad
11 announcements. This will be led by Christine
12 Goetz, chair of our Selection Committee, and Bryan
13 Luce, Chief Science Officer. Christine, do you
14 want to start?

15 MS. GOERTZ: Thank you. We are excited to
16 present the slate of broad announcements. We
17 actually have three different slates that we will
18 be asking for your approval on today.

19 The first is the broad, and this afternoon
20 we will be presenting our initial slate for
21 Hepatitis C, as well as our slate for pragmatic
22 trials.

1 Just a reminder, with the broad slates, we
2 generally present the information, the titles of
3 the applications so you can get a sense of exactly
4 what types of research we are funding, and Bryan
5 will also provide some summary data on location and
6 dollar amounts, et cetera.

7 Bryan?

8 DR. LUCE: Thank you very much, Christine.
9 As Joe said earlier this morning, I want to just
10 say a very few words, I'd like to take this
11 opportunity to express my deep appreciation to
12 serve as your chief science officer, and to serve
13 you, Joe, in particular.

14 It has been a true honor not only to serve
15 the Board, actually I think of it as the country,
16 and to Joe, but also to work with just an amazingly
17 dedicated and wonderful professional staff that we
18 have all put together.

19 That is it, I just wanted to let you know
20 that I have had the project officers.

21 DR. McNEIL: Can we ask a question now or
22 do you want us to wait?

1 DR. LUCE: I think you need to wait
2 because I'm not going to be prepared to talk at any
3 depth on any particular one. The project officers
4 are not necessarily even here.

5 CHAIRMAN NORQUIST: Part of the issue here
6 is that when we are voting, now Mary is going to
7 stand up here, because we get into this issue about
8 if you get into the details of the project, then we
9 expose -- I think if you want to talk about the
10 topic in general, that's fine.

11 DR. McNEIL: I did. The question I had,
12 and I think I sent this in an e-mail to somebody, I
13 thought there was a study on active surveillance
14 versus care for DCIS that came out quite recently.
15 It did come out quite recently; I know that for a
16 fact.

17 CHAIRMAN NORQUIST: Christine, you're on
18 the Selection Committee.

19 MS. GOERTZ: We actually did discuss that
20 study. I think the general consensus was it wasn't
21 completely definitive and there was more
22 opportunity for knowledge to be gained through this

1 particular study. We did bring up your concern
2 when we talked about this and decided the study
3 would make an important contribution.

4 CHAIRMAN NORQUIST: Basically, in answer,
5 you didn't feel the study was definitive, that
6 there was more work that could be done, and that is
7 why you are proposing it.

8 DR. McNEIL: Just as a P.S., I think when
9 we announce this; I think it would be really
10 critical to add that to the announcement. On the
11 fact of it, it looks like we are being redundant.

12 CHAIRMAN NORQUIST: Okay. Basically, we
13 are announcing it now because we are doing this in
14 public.

15 DR. LUCE: This next slide indicates three
16 recommended projects by the Communication and
17 Dissemination Research Program. Here we have five
18 recommended projects from the Improving Healthcare
19 Systems Program. Here is the slate from Improving
20 Methods for Conducting PCOR.

21 In summary, here is actually what we are
22 recommending. That first column is what was

1 announced in terms of funds available for this
2 cycle, totaling \$88 million. We are proposing a
3 total budget of \$54 million for committing in this
4 slate. The average project budget is \$2.251
5 million. That is consistent with what we have been
6 doing all along in terms of funding, a little bit
7 less than the total we absolutely had available.
8 We announced that we are interested in funding up
9 to this amount of money. There is one program that
10 was a little bit higher than its allocated amount.

11 CHAIRMAN NORQUIST: Are you finished,
12 Bryan?

13 DR. LUCE: I am.

14 CHAIRMAN NORQUIST: Okay. Christine, did
15 you want to say anything else?

16 MS. GOERTZ: No, I don't have anything to
17 add.

18 CHAIRMAN NORQUIST: We will have some
19 discussion now. Barbara?

20 DR. McNEIL: I thought it was a nice
21 presentation, Bryan, thank you. I have one
22 question, the 38 percent of the grants that were

1 awarded as having been resubmissions, do we know
2 how that compares with various institutes at the
3 NIH?

4 The second question is do we know on the
5 revision, the second submission, whether the
6 revisions -- how substantive they had to be. I
7 know at one meeting we talked about the fact that
8 people were uncomfortable with the PCORI format,
9 whether some of the revisions had to do with
10 getting more into the PCORI format.

11 A, is 38 percent consistent across the
12 board, and B, how substantive were the revisions
13 that were required?

14 DR. LUCE: I don't have it on the tip of
15 my tongue what the NIH resubmission rate is. Others
16 may.

17 CHAIRMAN NORQUIST: Was that a percentage
18 of the funded grants?

19 DR. LUCE: Yes.

20 CHAIRMAN NORQUIST: It usually is much
21 higher for resubmissions at NIH. I don't know the
22 exact number and it will vary by institute. It's

1 too bad Francis is not here. Just from my
2 experience having worked there, a high number of
3 those that were funded, and of course, it has
4 gotten a little tougher now because you only get so
5 many times to resubmit now at NIH. It used to be
6 unlimited. We have unlimited.

7 MS. GOERTZ: My sense is it is similar,
8 and I just asked Rick where it was at AHRQ, and he
9 said it is similar to what we are finding as well.

10 DR. LUCE: Actually for this cycle, we
11 were fairly pleased with the rate.

12 CHAIRMAN NORQUIST: I know at NIH, it will
13 vary by the review group because some are very
14 tough, it's like a paper, you never get it accepted
15 the first time, you always have to come back and do
16 something.

17 Any other questions at this point?

18 [No response.]

19 CHAIRMAN NORQUIST: One of the issues that
20 has come up, which we will discuss more, is about
21 the Board's role and what we are doing here, and I
22 think what we are doing is we are approving the

1 funding. We are using our fiduciary responsibility
2 here to approve the funding and the general topic
3 areas. That is our role here at this point, and
4 the process where the Selection Committee had the
5 more in depth role.

6 To be honest, Bryan, the problem with the
7 titles sometimes, not so obvious, I tried to pick
8 out, there was a fair percentage of mental health,
9 but I couldn't pull it out. I saw one grant that
10 was clearly mental health. I couldn't figure out
11 where that other mental health was in these topics.

12 CHAIRMAN NORQUIST: I need a motion to
13 approve this broad slate.

14 UNIDENTIFIED: So moved.

15 UNIDENTIFIED: Second.

16 CHAIRMAN NORQUIST: We are going to vote
17 again like we did before, if you will raise your
18 hand if you are in favor of the slate.

19 [Show of hands.]

20 CHAIRMAN NORQUIST: I will ask the people
21 on the phone. Allen?

22 DR. DOUMA: Aye.

1 CHAIRMAN NORQUIST: Freda?

2 DR. LEWIS-HALL: Aye.

3 CHAIRMAN NORQUIST: Harlan, are you on?

4 Weisman.

5 [No response.]

6 CHAIRMAN NORQUIST: Anyone opposed in the
7 room? Anyone abstaining?

8 [No response.]

9 CHAIRMAN NORQUIST: That passes, for those
10 on the phone, unanimously.

11 DR. FERNANDEZ: Could you please let the
12 record show that I'm recusing myself.

13 CHAIRMAN NORQUIST: You're recusing
14 yourself. You are recusing yourself, too?

15 DR. KRUMHOLZ: I'm recusing myself.

16 DR. FERNANDEZ: As members of the SOC
17 Committee, we are un-blinded as to some of the
18 investigators involved, and I am consequently
19 recusing myself.

20 CHAIRMAN NORQUIST: All of the people on
21 the SOC need to be recused?

22 MS. GOERTZ: She means the Selection

1 Committee.

2 CHAIRMAN NORQUIST: Who else is on the
3 Selection Committee?

4 MS. GOERTZ: We have never done that.

5 UNIDENTIFIED: Gray, it is not all the
6 members of the Selection Committee.

7 DR. McNEIL: Alicia identified one because
8 she had been un-blinded and she had a conflict.

9 CHAIRMAN NORQUIST: I see. Harlan was
10 adding it in. Okay. We have settled that issue
11 now. Thanks. Anything else, Bryan?

12 DR. LUCE: No. Thank you.

13 CHAIRMAN NORQUIST: We are five minutes
14 early for lunch. At this point for those of you on
15 the phone, we will be back at 1:15 Eastern Daylight
16 Time after we take a break for lunch. Thanks.

17 [Whereupon, at 12:10 p.m., a luncheon
18 recess was taken.]

19

20

21

22

1 MR. BARNETT: Okay. First, thanks to both
2 of you for being with us today and for helping to
3 launch what will soon we hope be a tradition. My
4 job as moderator, I think, is probably the easiest
5 assignment I could have.

6 I am just going to very briefly introduce
7 each of you, and then we will turn you loose with
8 some prepared comments. Then we will open it up
9 for questions and comments from the group. Does
10 that sound okay?

11 On my far right is Dr. Sam Nussbaum, who
12 is Executive Vice President for Clinical Health
13 Policy and Chief Medical Officer at Anthem. He is
14 responsible for the company's public health policy
15 programs. He is also responsible for clinical
16 strategy, medical and pharmacy policy, and clinical
17 quality programs. He is also responsible for
18 HealthCore, Anthem's clinical outcomes research
19 sub.

20 Prior to Anthem, he served as Executive
21 Vice President for Medical Affairs at BJC Health
22 Care, and President of its medical group. He also

1 serves as Professor of Clinical Medicine at
2 Washington University School of Medicine.

3 Sam, thank you very much for being with
4 us.

5 I will also introduce Dr. Lewis Sandy,
6 immediately to my right. He is Executive Vice
7 President at UnitedHealth Group, been there since
8 2003; right? His focus is primarily on clinical
9 innovation, physician collaboration, and reforms
10 related to provider payment and the delivery of
11 health care.

12 He is also a principal at the UnitedHealth
13 Center for Health Reform and Modernization. He has
14 also served as Chief Medical Officer at
15 UnitedHealthcare. Prior to that, served as
16 Executive Vice President at Robert Wood Johnson.

17 Thank you to both of you for being with us
18 today. Sam, we will start with you, if that is all
19 right.

20 DR. NUSSBAUM: Thank you, Kerry. Thank
21 you, Gray. Thank you, Joe. It's really a pleasure
22 to be here at your inaugural forum with key

1 stakeholders.

2 I also think it is really important that
3 we talk about a path forward because many of us
4 have been strong supporters of patient-centered
5 outcomes research and the work that you have done,
6 and really see this as an enterprise that needs to
7 build on its success.

8 I also want to thank this Board of
9 Governors because it is interesting and you
10 acknowledged this over lunch, that so many of you
11 have been with PCORI since its inception, and like
12 the birthing process, made the adolescence of
13 seeing an organization through some challenging
14 times, determining its sort of strategy. This may
15 be a really good opportunity at the five year point
16 of the initial decade to look at what changes can
17 be made to make this wonderfully sustainable.

18 At Anthem, we have been major supporters
19 of effectiveness research and outcomes research.
20 In fact, as we talked about and were reminded, the
21 original Institute of Medicine's call for
22 effectiveness research was some work that Barbara

1 McNeil led. Even with the Blue Cross/Blue Shield
2 Association, we were out there saying we would
3 welcome the funding of such an organization.

4 We also within our own company have our
5 own outcomes research subsidiary, HealthCore. It
6 is sort of like the opening of A Tale of Two Cities
7 and Dickens. It is truly the best of times and
8 worse of times in health care. The best of times
9 because of the breathtaking science that is taking
10 place and discoveries. Yet, in many ways the worse
11 of times, the 30 to 40 percent of what we do, which
12 is either unproven or inefficiently delivered care,
13 and that cost is crowding out other necessary
14 investments for our nation, in education, housing,
15 wage growth for companies.

16 In many ways, PCORI is a true jewel of the
17 ACA, and I think as Secretary Burwell has announced
18 recently and the private payers have joined forces,
19 we are all committed to more value based care and
20 value based payments.

21 How do you get there? One way of getting
22 there is to really know that you are going to play

1 a key role in guiding the nation to proven
2 intervention, determining what works and what works
3 best.

4 There are several ideas that I'd like to
5 develop with you or share with you today. I
6 believe they will accelerate PCORI's success and
7 build on its strong foundation. They are about
8 stakeholder versus researcher-generated models of
9 research. They are about prioritization. I know
10 you have spent a lot of time on that, and
11 particularly prioritization of new technologies.

12 They are about collaboration, and some
13 very specific paths to engage constituencies
14 because I think most of all, every organization
15 wants strong allies in the path forward, and people
16 who not only are allies but truly understand the
17 mission of the organization and what it has
18 achieved.

19 A number of the comments that I'm going to
20 make now, I believe you have heard before, and you
21 are on a path to change, and the model is changing.
22 For example, when we look at this concept of

1 researcher generated versus stakeholder generated,
2 that agenda has evolved and I think needs to
3 continue to evolve, not only on funding notices
4 covering broad topics, but really asking very, very
5 specific research questions.

6 I am delighted personally to see you have
7 done more of that, and I know you are crossing that
8 threshold of researcher initiated versus
9 stakeholder and PCORI driven.

10 At the same time this is occurring, I
11 think there is a new strategic direction with
12 tempo. It is occurring at FDA. It is occurring
13 around the nation. That is an increasing focus on
14 pragmatic clinical trials.

15 In fact, one of the interesting reports,
16 while it is to the FDA or about the FDA, is the
17 Bipartisan Policy Council has recently issued a
18 report that says we can accelerate and improve the
19 medical product development process as well as
20 generation of more relevant evidence with those
21 capabilities surrounding pragmatic research.

22 How could and should research be

1 prioritized? Again, it's an area where recognizing
2 the delicate balance. There is an overarching
3 statement that I think is important here. I think
4 we should know answers before patterns of clinical
5 practice are engrained within physicians and other
6 health professionals. That is an opportunity.

7 Specifically, whether it is proton beam
8 treatment or Hepatitis C or other specialty
9 pharmacy areas, an area of absolutely increased
10 focus for this nation, whether it is molecular
11 diagnostics and targeted therapies, spinal surgery,
12 or optimal coordinated care models, value based
13 models. That is really work that is at its
14 inception, and the closer the research agenda can
15 take that on, I think the greater relevance and
16 meaning in the change of care in this country.

17 PCORnet offers just extraordinary
18 opportunities to collaborate. In fact, today, if
19 we think about one model that has worked, I believe
20 the FDA Sentinel system and PCORnet, they are
21 highly complimentary, across networks of data
22 partners, and is containing today information from

1 tens of millions of individuals.

2 With these data partners and this data, it
3 could be even more intimately linked with bi-
4 directional flow of information. Sentinel's drug
5 surveillance capabilities could be improved, and
6 PCORnet's conduct of patient-centered comparative
7 effectiveness could be enhanced. I know it is a
8 direction many of your colleagues have also
9 embraced, and I know, Joe, you have been personally
10 engaged in this. Again, that is a huge
11 opportunity.

12 When you think about the clinical data
13 research network and the patient powered research
14 networks, these are absolutely strong conceptual
15 models. The health plan data, I think, in many
16 ways could even make them more effective.

17 I think there is consideration that some
18 health plans believe that today it is provide us
19 data, which of course, we want to do, but I think
20 it is going to be in the future provide us data and
21 be our research partner. I think this is where
22 this is going.

1 Let me talk a moment about convening
2 specific stakeholder groups. It is clear that
3 extraordinary capability and infrastructure has
4 been built, they are broadly constituted
5 stakeholder committees, as the Board is.

6 I think it is important perhaps to focus
7 and convene additional groups that may represent
8 either health plans, providers, or even consumers.
9 Well, you say Sam, why would you want to do that
10 when you could have all the stakeholders
11 represented. I think in this way, a more
12 formalized process, these groups cannot only
13 identify opportunities, but can strongly become
14 your advocates. I will talk in a few moments about
15 how this could be achieved even in terms of the
16 research agenda.

17 What I think is important again is PCORI
18 has established key priorities in domains that we
19 know are worthy of investigation, the domain of
20 just improving methodologies is going to be a
21 foundation for later work. Like any scaffolding
22 and any foundation that you take many years to dig,

1 and we all know that building the arises very
2 quickly, all that great work will build for the
3 future.

4 How do you build on this? I think we have
5 talked a little bit about prioritization. As I
6 close these comments, I think it is important to
7 maybe take some topic areas that would engage broad
8 stakeholders.

9 There is a recent report in Health Affairs
10 you may have seen that talked about coverage
11 variation amongst the payers and CMS. It turns out
12 there is about a 50 percent divergence. Providers
13 have said why should that be. In fact, the nation
14 should say why should that be. That's an
15 opportunity. There are ways of trying to find
16 those areas where there is the most variation and
17 understand them.

18 It would be interesting and you have
19 probably done this to look back at those, remember
20 the 100 initial studies, priorities, that were
21 determined by the Institute of Medicine, and see
22 how many of those actually were taken on, and

1 whether they are meaningful today. I think one of
2 the high priorities was for cardiac arrhythmia,
3 atrial fibrillation was the best approach.

4 That is very specific, but the concept is
5 if you were to convene these stakeholder groups, to
6 patients, to providers, to insurers, could a small
7 percent of the research agenda be focused on their
8 ideas.

9 In many ways, I think that type of
10 alignment around issues, such as treatment of
11 prostate cancer -- I know, Barbara, earlier you
12 mentioned ductal carcinoma in situ -- autism,
13 spectrum disorders, refractory depression, C-
14 section. These are huge issues and areas that I
15 know will be looked at and increasingly, I think,
16 will be a focus of all the groups coming together
17 as well as separately.

18 Just to close, I think while my comments
19 are certainly not about data governance, PCORI and
20 the way you use data can actually lead the way for
21 the nation, maybe globally, on how to use big data.
22 Working together with health plans on data

1 governance, working again through PCORnet and
2 organizations that hold complimentary data, as I
3 mentioned, across diverse networks and partners,
4 could really be extremely important, and I believe
5 employers will be allies. They own a lot of the
6 self funded data. Medicaid owns data. You own
7 data through a coordinating center, and health
8 plans' own data.

9 I believe to close that the type of
10 engagement that you have with our industry will
11 contribute meaningfully to the development of a
12 system that will be what you all want and what we
13 all want, which is a broad national resource for
14 comparative effectiveness research.

15 Thank you.

16 DR. SANDY: Thanks. I appreciate Kerry,
17 Gray, and Joe, as Sam mentioned, the opportunity to
18 be here. I think it says something about PCORI and
19 the culture -- I'll make a comment on that in a few
20 minutes -- that you invited us to hear an open and
21 honest perspective from a payer point of view.

22 Before I start, I want to just make a

1 couple of disclaimers. First, I thought I'd
2 comment as an individual, even though my work is
3 informed by my time at UnitedHealth Group, which
4 includes United Healthcare, covering about 50
5 million Americans and Optum, our health services
6 company, that serves probably 80 million people,
7 but also is involved with all stakeholders in
8 health care and very heavily involved in research,
9 data and analytics, part of the Sentinel network,
10 as Sam mentioned, but I also have spent, as Kerry
11 mentioned in the intro, 12 years at the Robert Wood
12 Johnson Foundation before I joined United.

13 I realized I have kind of been in your
14 shoes as a Board, trying to figure out how do we
15 know whether our program of funding and strategy
16 makes sense, and how do we know it is having an
17 impact. I thought I'd give some comments about
18 that as well.

19 The other thing is I've organized my
20 remarks into three areas about sort of my
21 assessment of patient-centered outcomes research as
22 a priority, PCORI itself, what I think is sort of

1 my interim assessment from a personal point of
2 view, and then some suggestions for improvement and
3 opportunities that I see.

4 In doing so, I realize I'm kind of an
5 amateur evaluator, and this is the other caveat I
6 wanted to make. I'm pretty familiar with PCORI but
7 I'm not encyclopedic in my knowledge, and the
8 comments that I make could be misinformed or wildly
9 off. Take it with a grain of salt.

10 PCOR, PCORI, and suggestions for
11 improvement. Sam said it very well. In terms of
12 the field of patient-centered outcomes research,
13 this is absolutely essential for all stakeholders,
14 and it is sorely needed. It is needed in two
15 dimensions at least, and I think PCORI is optimally
16 positioned, and I think why PCORI was launched, we
17 need good comparative effectiveness research to
18 inform all stakeholders, but the other thing that
19 is critically needed is to incorporate and have a
20 method for incorporating patient perspectives into
21 that process at all points along the continuum.
22 Both of those are seriously lacking in the U.S.

1 health care system and even worldwide.

2 I just think PCORI or sort of the
3 rationale for PCORI is absolutely sound, and I
4 think is absolutely essential. I personally want
5 PCORI to thrive.

6 Coming to PCORI itself, let me give you
7 kind of what I think has been good and what are
8 some opportunities for improvement. My take is
9 PCORI at this stage, you have really built the
10 field of patient-centered outcomes research, and
11 not by yourselves, but in collaboration with a
12 methodology of being very open and inclusive, and
13 unlike many other efforts that I've seen
14 previously, often times there is a lot of lip
15 service to the patient, so you say yeah, we're
16 going to be patient oriented, and then we're going
17 to go off and do whatever it is that we were going
18 to do anyway.

19 That is not PCORI. Your methodology and
20 your methods of including patients, patient
21 perspectives, patient groups, you are walking the
22 walk, not just talking the talk. I think that

1 comes through.

2 Related to that is you have identified the
3 need for more rigor and more robust processes to
4 incorporate that into research methodology from
5 question formulation, the research methods, to
6 engagement throughout the research process, and
7 then including dissemination.

8 I think that is really powerful, really
9 important. I'm not going to focus on the
10 particulars of your programs. Sam had some really
11 good suggestions. I also want to commend you for
12 your specific focus on disparities. If you look at
13 all the IOM mains, I think we are making progress.
14 The least progress I think we are making is on
15 disparities, health equity. I really appreciate
16 that you are focused on that.

17 The other thing that is good about PCORI,
18 you have attracted a lot of talent, a lot of talent
19 in your organization, in PCORI, among the
20 leadership, among the staff, and you have attracted
21 this sort of network of really talented people. I
22 know a lot of people that are involved in PCORI.

1 You have really good people.

2 The culture of openness, the culture of
3 accessibility. The PCORI staff, I see Joe, he
4 always says hi, we see you everywhere. I say well,
5 I always see you everywhere, by definition, you're
6 out there. You're out there talking about what you
7 are doing, and you are very open and accessible.
8 You're not in any kind of defensive crouch, which
9 you could be in, but you're not. I think that is
10 really commendable.

11 On the program, you have really started
12 some very promising approaches. I would highlight
13 PCORnet, as Sam did, and the patient powered
14 research network, coming to my comments about sort
15 of methods for incorporating patients. I think
16 that is a really innovative idea. It's obviously
17 early, but there is a lot of potential power there.

18 That's my kind of good news.

19 UNIDENTIFIED: Did you want to stop there?

20 [Laughter.]

21 DR. SANDY: Let me give some formative
22 feedback, shall we say. I thought PCORI got off to

1 a slow start, and frankly you were in a start-up,
2 so there is a certain amount of that that makes
3 sense. Even saying that, I think PCORI got off to
4 a slow start, and it wasn't much of a focus that I
5 could tell around kind of an early win, let's put
6 our nickel down in something to say oh, I kind of
7 get what they are doing.

8 Related to that is although you laid out
9 priorities, those priorities are very general. I
10 know, for example, the GAO reports, some of them
11 cited some people thought the priorities were not
12 all that prioritized. I would share that point of
13 view. That may be changing, which is good.

14 Again, we represent payers, but you have
15 to remember, we are not payers by ourselves. We
16 are agents or purchasers, public and private. I
17 don't see there have been a lot of deliverables for
18 the purchasers and payers at this time, to Sam's
19 comments and good suggestions on how to do that.

20 I think generally there is pretty low
21 visibility among PCORI, and I'll have some
22 suggestions around that. Sometimes issues are sort

1 of the flip side of the strength, focus on rigor.
2 Some of your methods and some of your approaches in
3 my view are too academic for the applied way that
4 this information can be most useful on behalf of
5 patients.

6 I think you have in many ways emulated the
7 NIH model, and Francis is here. The difference is
8 I don't think Francis needs to go and justify the
9 existence of the NIH. Maybe we can about that. I
10 don't get that sense that people call that question
11 very often. It's a little different with PCORI and
12 some of your sister agencies. I think that's an
13 issue.

14 The other one thinking about how to apply
15 this investment in patient oriented research, both
16 Sam and I spend a lot of energy on payment and
17 delivery reform, there is a generalized lack of
18 infrastructure, or a scalable repeatable
19 infrastructure, for collecting data on patients.
20 That is a real issue in the entire field, that's
21 not PCORI's issue by itself.

22 Since you emphasize and represent a

1 patient perspective, I think you need to work more
2 on figuring out, we have good ways, they can always
3 be improved, good ways to measure quality, good
4 ways to measure costs and efficiencies. These can
5 be improved. We don't have the same infrastructure
6 on patient outcome, and maybe PCORnet and the
7 research networks can do that.

8 In closing, that is sort of my amateur
9 assessment of strengths and opportunities for
10 improvement. My suggestions, I think the first one
11 is you need to create what our sales people would
12 call a sales sheet for PCORI. I could not find it.
13 I don't see anywhere kind of an one pager on what
14 is PCOR and PCORI, what are you doing, how is it
15 helping the American people or the health care
16 system, and why should you, the reader, care.
17 That's what our sales people call a sales sheet.
18 You need that. Maybe I couldn't find it.

19 Some of the things that I did see are kind
20 of jargony, and I think you need to do some work on
21 de-jargonizing some of what you are doing. I think
22 one of the things that would be helpful in

1 addressing something Sam mentioned and the
2 stakeholder issue is the idea of a rapid response
3 capability.

4 I know a number of health technology
5 organizations around the world have kind of a quick
6 way to respond to queries about what do we know
7 about an area. PCORI could do that, do it
8 directly, support it through grants or contracts.
9 That would kind of help create a discipline
10 actually. You're not going to answer every
11 question in a short period of time, of course, but
12 you can highlight what it is that we know and what
13 it is we need to know in an area. I think that
14 would be useful for you to do.

15 I think, coming back to my comment, you
16 need to have some useful deliverables for your
17 patrons. It's different. I was at the Robert Wood
18 Johnson Foundation that had an endowment and didn't
19 have to secure ongoing financing, but you do, with
20 your time limited funding stream.

21 It's really important, and Sam said the
22 same thing, to start to work now to showcase the

1 value of what PCORI is doing and the utility of it,
2 sales sheet, other ways to do it, and work now
3 particularly, for example, on the sustainability of
4 PCORnet and the patient powered research networks.

5 Those are my suggestions. I realize a lot
6 of success in life is basically luck and the rest
7 is timing. The clock is ticking for PCORI, and all
8 of us want to make sure that this capability
9 continues to advance on behalf of the people we
10 serve, on behalf of the patients we take care of,
11 on behalf of the U.S. health care system, so I hope
12 this feedback is useful, and both Sam and I look
13 forward to your comments.

14 MR. BARNETT: Thank you very much. We
15 appreciate your candor, we honestly do. Let me
16 start by asking the first question and then we will
17 see what comments and questions others have.

18 PCORI, as I'm sure you know, under statute
19 is prohibited from funding research that focuses on
20 cost. Payers live, as we all know and understand,
21 in a very cost conscious world, as do the
22 purchasers you referred to, that you act as a proxy

1 for.

2 Does that suggest sort of a fundamental
3 non-alignment between the carriers and what PCORI
4 is all about or is that something that can be
5 bridged?

6 DR. NUSSBAUM: It's an important question
7 and certainly one we have thought through in our
8 organization. Even though you can't directly look
9 at cost, what you can look at is the outcomes, and
10 that is how we basically begin any assessment.

11 For example, if we are looking at -- I
12 know we are going to hear about this later -- if we
13 are looking at what's the most effective treatment
14 for Hepatitis C, we want to know from a patient
15 perspective what drugs are tolerated best, what the
16 success rates are. We can then manage through many
17 of the aspects of cost in terms of value of the
18 drugs, how we negotiate those contracts. That is a
19 very, very specific example.

20 One of the things we are also
21 knowledgeable of, if you look at the IOM report of
22 a year and a half ago on better care at lower cost,

1 it was really about inefficient care, waste,
2 performing medical services that don't add value.
3 That is where PCORI can be most effective and
4 because of the partnership, and Lew has emphasized
5 this, through PCORnet, we can work together to look
6 at the real world pragmatic activities that are
7 taking place.

8 Even though you may be precluded by
9 statute, the information that you can gain will be
10 incredibly valuable to those of us that do balance
11 value, that do have to make those considerations.

12 The one thing I assure everyone here,
13 because it is really important, for health plans,
14 if there is a superior treatment, albeit one that
15 may cost a great deal, we will opt for that
16 superior treatment. It's only when you don't know
17 whether there is a superior treatment, and it's
18 everything appears to be the same that we are
19 looking to find the most cost effective way of
20 proceeding.

21 DR. SANDY: It's a great question. In the
22 payer world, I think there's a spectrum. There are

1 some people that say you know, what is really
2 important is to have a group opine about cost
3 effectiveness and cost/benefit analysis, but my own
4 personal opinion is a little different, which is I
5 think the most critical questions are around
6 clinical effectiveness, clinical efficacy. If
7 those questions are answered in a comparative way,
8 others can pick up and kind of do subsequent
9 analysis looking at value for money.

10 I don't consider the way PCORI is
11 structured a show stopper by any means.

12 MR. BARNETT: Barbara?

13 DR. McNEIL: Those are great remarks, Sam
14 and Lew. I have a question. Both of you mentioned
15 PCORnet several times. We have talked a lot about
16 that here. I believe, Joe, correct me if I'm
17 wrong, there are two pilot studies going on, one on
18 aspirin and one on bariatric surgery for kids. The
19 question I have for you, since you both mentioned
20 this, A, are you dying to know the answers to those
21 questions, and B, what kinds of questions, if you
22 each could name two clinical questions that would

1 just be ideally suited to measurement or a study by
2 PCORnet.

3 It is a big investment on our part, and
4 even though you say it, I don't think we have come
5 to real grips about what those could be. I'd love
6 to hear your thoughts and really specifically, if
7 you could.

8 DR. SANDY: I hesitate, Barbara, to give
9 an answer off the top of my head. I'm kind of on
10 research priorities. I'd have to think some more.

11 I'll give you an illustrative example from
12 what you are already funding, both of which are
13 kind of important questions. For example, the
14 aspirin question is an important clinical question,
15 but I don't think this is something plans are
16 worrying about at night. What do plans worry about
17 at night? They are the kind of things Sam has
18 mentioned around typically therapies, that we think
19 there is a great deal of variation in what is done.
20 Evidence at least as best we can tell where that
21 variation does not seem clinically appropriate and
22 frankly isn't benefitting the patient, a lot of

1 care that is being delivered really isn't
2 benefitting the patient.

3 The other thing to your question is
4 understanding outside of traditional clinical
5 trials and carefully selected populations, health
6 plans and payers have to make policy that affect
7 unselected populations of patients, so the kind of
8 conundrums we grapple with have to do with which
9 subgroup of patients benefit the most or
10 differentially benefits, and which subgroup, not in
11 a research study, but like in the real world, and
12 which actually don't benefit. That can help inform
13 the approaches to medical policy formulation.

14 There are many such conditions. They are
15 in the areas of spine surgery, the areas of
16 diagnostic imaging for lots of different
17 conditions. I think there are many open questions
18 around the relationship between the emerging
19 science of genomics, personalized medicine and
20 clinical application that lend themselves to study
21 in the real world.

22 As an example, I heard a small research

1 study on whole genome sequencing and asking people
2 at a cancer center where do you think the state-of-
3 the-art of the clinical utility is of whole tumor
4 sequencing, and half of the group in the cancer
5 center said yes, I use this all the time in my
6 clinical decision making, and the other half said I
7 have no idea what to do with this kind of
8 information in my clinical decision making.

9 Again, it may be a little early in that
10 particular case, but issues with a lot of
11 variation, lot of uncertainty for the clinical
12 community and the need to study them in large
13 numbers of real world settings. Those would be the
14 criteria.

15 DR. NUSSMAN: If I may just build on Lew's
16 point and add to Barbara's important question, the
17 two studies that were selected, think about how we
18 provide information. Low dose versus high dose
19 aspirin. No one can easily track that. We don't
20 have pharmacy data, we don't have claims, we have a
21 personal engagement which will give us that answer.

22 Bariatric surgery, the nation is becoming

1 increasing obese. We are seeing that continuously.
2 Obesity is coming attractions for diabetes, for
3 cardiovascular disease. We all know that.

4 As Lew said, we probably don't see
5 bariatric surgery as a solution to this public
6 health dilemma, and most of us actually have
7 created centers of excellence where they get great
8 outcomes with bariatric surgery when it is covered,
9 and we have basically answered that question, not
10 to the extent that you are, but to our need.

11 The two that I would give you very
12 specifically are two of the most important areas in
13 health care today, and one is in cardiovascular
14 disease. This is a good example of what I
15 referenced. Now we have new therapies. We have
16 PCSK9 inhibitors. We have statins that have been
17 time honored. We have a 40 percent reduction in
18 cardiovascular death over the last decade or two.

19 How then does this fit into the clinical
20 profile of treatment and how does it fit perhaps
21 even with interventional cardiology. That might be
22 one where we have strong claims, real time

1 information on pharmacy.

2 The second is one that Francis and I were
3 just commenting about briefly before we started,
4 and that is all of the molecular diagnostics, all
5 the molecular profiles, and how to best intervene
6 in cancers based on that. That is again
7 information. We as health plans as opposed to
8 others support off label use of drugs if we think
9 there is information or it makes some sense.

10 That is where I think a pragmatic clinical
11 research and the detail we would have to inform and
12 support and be research partners would be the
13 greatest, in those two types of activities.

14 MR. BARNETT: Larry, Francis, and Joe.
15 That is probably all we will have time for.

16 MR. BECKER: I want to go to process. We
17 are going to have and are beginning to have
18 research results. The normal process is you
19 publish it in a journal. Do you on your end have a
20 process to accept whatever evidence is out there,
21 put it into plan design, put it in value based
22 benefit design?

1 What can we do as we communicate these
2 results to match up with your process, to
3 facilitate that sort of marrying of these two
4 processes?

5 DR. NUSSMAN: I can begin. We have, as
6 you know, a very rigorous process that involves
7 many external physicians, clinical researchers,
8 scientists. We use many academic centers, and
9 generally all health plans do this to a varying
10 degree.

11 We accept that which is published, that
12 which is presented at meetings, that which we learn
13 about, we review it in great detail, and that's how
14 we make decisions on both coverage and decisions on
15 benefit design.

16 We really embrace the model of publication
17 and peer review, but on the other hand, to be
18 relevant today, we have to disseminate that
19 information at the earliest possible time.

20 That's really what we want to do, and I
21 think the good news is the medical journals and
22 others have actually accelerated the time line for

1 very vital information to get out. That is the way
2 we do it. I think the research of PCORI can build
3 on that.

4 DR. SANDY: I think Sam said it well.

5 DR. COLLINS: I want to ask in context
6 here, PCORnet, which has really remarkable
7 capabilities emerging in terms of doing comparative
8 effectiveness research with very large numbers of
9 potential research participants, through the CDRNs
10 and PPRNs, and now the emerging possibility of this
11 precision medicine initiative of a million or more
12 Americans who will be engaged in a longitudinal
13 cohort study.

14 Under what circumstances would help plans
15 like yours be willing to become engaged as a
16 partner in terms of sharing data about those same
17 individuals? It is all going to be about the
18 various data types that can be assembled together
19 in order to try to draw inferences about what helps
20 keep people healthy or how their disease is best
21 managed.

22 I'm sure there are all kinds of issues

1 there about privacy, confidential firewalls, but
2 what would the criteria be for you to engage in a
3 partnership and make those kinds of data
4 accessible?

5 DR. SANDY: It's a great question. I
6 think there are a number of different dimensions to
7 the answer. I think the first one is there has to
8 be -- you are focused on sort of scalable
9 infrastructure. One of the barriers that I've seen
10 is around sort of scaling up the infrastructure to
11 do exactly what you said, particularly integration
12 of data from clinical repositories, such as EHRs,
13 and in the claims data.

14 I don't think it will work if every center
15 has to kind of custom craft an approach working
16 with every payer, and as I mentioned, we are part
17 already of the FDA's Sentinel network. We were one
18 of the founding contributors to a multi-payer
19 repository called the Health Care Cost Institute.

20 Interestingly, originally built to just
21 compile private sector cost trends relying not just
22 on Medicare data for that view, but the same

1 repository has now been recognized, oh, we can
2 actually look at other data, other questions, using
3 a multi-payer claims view.

4 I think a scalable infrastructure, there
5 are a number of regulatory issues that payers have
6 to deal with regarding identified data as we are
7 regulated entities, this is outside research, and I
8 am aware of a number of different opportunities
9 with individual academic health centers and
10 networks, and we just couldn't pull it off because
11 of privacy and security issues on the academic
12 health center side. These are really kind of
13 thorny technical regulatory issues that have to be
14 addressed.

15 On the strategic level, there has to be a
16 value proposition. There has to be something
17 worthwhile that is worth the time and effort to go
18 ahead and do it for all parties, including the
19 payers.

20 DR. NUSSMAN: If I may just add to this, I
21 think this is really important. We have been
22 integral, meaning Anthem, United, in being

1 architects, shaping and contributing vast amounts
2 of data to the Sentinel system.

3 Also what is important is we are strong
4 participants with CMMI in testing models of care.
5 There is a very important alignment across many
6 dimensions. In fact, the White House has asked
7 your question and we have responded that we will be
8 part and want to be part of the personalized
9 medicine initiative and will find a way of making
10 that happen, whether it is rewarding clinicians to
11 participate in oncology research or other models.

12 Here is one of the considerations that we
13 have, at least at Anthem. As Lew and I have
14 mentioned, we support many, many types of
15 companies, and for those companies, we provide
16 administrative services, but our base contracts say
17 we don't pay for investigational and experimental
18 therapies. That is the contract language yet we
19 want to find that path to learn, to inform, so we
20 can in the future pay for those services that are
21 proven and remove waste.

22 That is in the contracts and that is why

1 we have found and looked for the strategy and
2 tactics to get past that, such as entering a
3 research project part of care coordination. There
4 are many ways of getting there, but that probably,
5 when you ask if there is an obstacle, that is the
6 contract language that almost all health plans tend
7 to have.

8 DR. SELBY: Lew and Sam, I want to first
9 say thank you so much, this was richer than I think
10 we anticipated. It was fantastic.

11 Both of you alluded to an issue that is
12 relatively newly on my mind and on our minds. Sam
13 talked about really recognizing issues in advance
14 and getting out there with the research early on
15 before practices are cemented. You talked about a
16 rapid response strategy.

17 I think we are completely with you, and I
18 think it was in the minds of the framers of the
19 PCORI legislation that we would among other things
20 support research into new therapies, new therapies
21 where you really needed to understand how they
22 compared with available therapies and in whom were

1 they really better. Classic patient-centered
2 outcomes research.

3 One of the things we see is we essentially
4 fund research that starts right after drugs are no
5 longer investigational, drugs or other therapies.
6 They are out there and available, at least in some
7 places.

8 If we wanted to do a head to head study,
9 head to head trial, of two competing new products
10 in some particular area, we might find one of the
11 industry sponsors of one of the products was very
12 interested in the project but the other was not.
13 PCORI is not in the business of paying for clinical
14 services. We can't do that.

15 It would seem that payers and purchasers
16 facing prospects of having to operate for a number
17 of years without evidence might be willing to work
18 in advance even on something appearing on the
19 market so that we would have financing mechanisms
20 if we wanted to compare two therapies or if there
21 was some other kind of critical CER question that
22 needed to be answered, that we knew even before day

1 one that we have at least the prospects of a
2 mechanism for funding the treatment costs for both
3 arms.

4 DR. SANDY: I would agree with that, Joe,
5 and I think this is where -- it gets to Larry's
6 question also -- I think what is really needed, and
7 PCORI could really help do this, I talk to a lot of
8 life science companies that are always trying to
9 figure out kind of how do they address these
10 issues, and I say what is really needed is speed to
11 answer and speed to application, need to speed up
12 the ability to answer the question.

13 They always want sort of product specific
14 or company specific, inside into the question that
15 we have, and I tell them the question, you know the
16 answer to the question, you know the questions that
17 we as a payer will have, how does something work in
18 the real world, which patients, compared to what,
19 how does
20 this new thing fit, most things aren't de novo
21 treatments where there is no established therapy,
22 how does it compare to existing standards of care.

1 That is a CER kind of question.

2 What are the outcomes that are most
3 material to patients? Many of the innovations -- I
4 want to emphasize what Sam said, too, we are
5 interested in understanding and promoting high
6 value innovation, and we mean high value as value
7 for patients, how do we then figure out whether
8 patients are really benefitting or not without
9 doing this kind of thing.

10 We need to speed it up. That's my take.

11 UNIDENTIFIED: We really are on common
12 ground here on what you suggest. We do this today.
13 We do it in a real world evidence base. We look at
14 two therapies. We are not just comparing the cost
15 of two drugs. My goodness. We are comparing the
16 impact of those drugs for asthma about emergency
17 room visits or whether children are in school, or
18 many of the more patient-centered quality of life
19 and family issues.

20 We do that today so why not do that over a
21 broader set of activities with other health plans
22 and get to that answer much sooner.

1 DR. LEVINE: I'll be quick. You both
2 alluded to the issue of eliminating low value care,
3 things that are being done that have no benefit or
4 have the potential of harm. I am just wondering,
5 now we are on this long and winding path to payment
6 reform, as we move toward alternative payment
7 models, where pay for value, at least currently --
8 it's a long and winding road, I understand that.

9 As we progress down that road, do you
10 think that task will be easy in terms of
11 eliminating the instinct to continue to do stuff in
12 the absence of evidence of benefit?

13 DR. NUSSBAUM: Payment reform, Sharon, I
14 think is an enabler to greater velocity, get at
15 waste and care that doesn't make a difference. The
16 journey will be long and it will be tough.

17 In fact, Lew and I are both on the Guiding
18 Committee that is looking at the framework for
19 alternative payment models and value. In fact, we
20 each chair a work group. Mine is the framework and
21 the tracking. Lew can tell you more about his
22 specific area.

1 We are personally very invested in this,
2 but the real answer is that payment reform in and
3 of itself is not a solution, it has to be an
4 enabler for quality, for clinical performance, and
5 to in many ways leave this nation head room for
6 innovation. The real answer is getting rid of, as
7 you know, the 30 percent waste so we can innovate
8 new treatments and provide services to people.

9 DR. LEVINE: Do you think it will make the
10 path easier?

11 DR. NUSSBAUM: I do; yes.

12 DR. SANDY: I think you get better
13 alignment when you have advances in payment and you
14 have more organized care delivery. It is helpful,
15 but it is not going to drive it all by itself.
16 There are a whole set of things that have to
17 happen.

18 In some ways, it will make it easier, and
19 in some ways it will make it more difficult. We
20 can talk off line about that.

21 DR. KUNTZ: Lew, you talked about the need
22 for a sales sheet. You alluded to sister agencies,

1 perhaps that was to AHRQ. We do have some
2 experience recently with putting together sales
3 sheets. We have kind of high on that sheet the
4 observation that hospital care was 17 percent safer
5 in 2013 than in 2010, 1.3 million fewer adverse
6 events in hospitals, still 121 adverse events per
7 1,000 hospitalizations, well too many, but down
8 from 145, 50,000 fewer people dying as a result.

9 As you noted, and Joe talked about a few
10 early results, but it seems like a sales sheet
11 today, much of what would be on it would be the
12 anticipated result that would be coming later this
13 year and next year and the next year.

14 The kind of question is whether you have
15 any advice about how to frame a sales sheet in the
16 context where there are some results to point to
17 today but most are kind of on the cuff.

18 DR. SANDY: It's not my area of expertise.
19 I majored in biomedical science. I would say even
20 that comment is under clubbing what has already
21 happened. I have tried to give you in my comments
22 some thoughts around the value proposition that has

1 already been created and the promise.

2 You can sell a promissory note if people
3 believe and it makes sense, yes, I'm willing to
4 wait for that because that makes a lot of sense to
5 me, that is worth waiting to see what happens. I
6 think you are under selling it, Rick, if you just
7 say you're a researcher, that's the way a
8 researcher would think about it. I'm suggesting
9 thinking about it differently, and there are other
10 people who know how to do this far better than I
11 do. I have tried to give some initial thoughts.

12 DR. NUSSBAUM: Rick, my only comment to
13 add here is patient-centered, this matters a great
14 deal to employers, to Government. The idea that
15 patients can be more knowledgeable, can be partners
16 in their care, share decision making, an area that
17 you have focused a lot of the early grants on, this
18 is incredibly important, and one of the areas that
19 we have not excelled in, so the science, the
20 patient-centeredness, and the shared knowledge has
21 not moved in parallel, so I think that would be
22 part of this compelling set of messages.

1 What is the real issue is this happens for
2 NQF, those of us who have been involved with NQF
3 know it happens, in these very complex technical
4 domains, you have to make that compelling case and
5 make it meaningful to everyone. Why is my life
6 different today because of PCORI. You will find
7 ways.

8 CHAIRMAN NORQUIST: Thank you, guys. You
9 did a marvelous job, so thank you very much. This
10 is not the end. We hope we have ongoing dialogue
11 with payers and others. Don't think we won't call
12 you again. Thank you.

13 [Applause.]

14 CHAIRMAN NORQUIST: We will now move into
15 the next two sessions. You will see Christine and
16 Bryan here for the next hour and a half. We are
17 going to first consider the slate of proposals we
18 have on Hepatitis C infection awards.

19 MS. GOERTZ: Thank you, Gray. We are
20 excited to finally be at the point where we are
21 talking about a proposed slate for our Hepatitis C
22 initiative. Today we will be presenting two

1 applications that we are recommending for funding.

2 I just wanted everyone to know ahead of
3 time that we are actually hoping there will be more
4 applications coming. Staff are in discussions with
5 other investigators beyond the slate we are
6 presenting today. We are hopeful we will be
7 bringing you additional awards for recommendation
8 under the Hepatitis C initiative in the near
9 future.

10 As you know, we have language in all of
11 our funding announcements that say we consider a
12 number of things when we are trying to decide what
13 to fund, and there are a number of things that the
14 staff and the Selection Committee look at before
15 anything comes before the Board.

16 Obviously, a major part of that is the
17 merit review, but another big part of that has to
18 do with program priority and program fit. That is
19 language that we have in all of our funding
20 announcements.

21 The way that we are operationalizing it
22 within the Hepatitis C slate is we are hoping we

1 will be able to fund applications within each of
2 the four topics or questions, within screening,
3 care management, head to head comparisons, and
4 delayed treatment. Again, we are just going to be
5 presenting two of those today.

6 We are a little bit behind schedule. I
7 have asked Bryan to go as quickly as he can.
8 Obviously, we want to make sure that we are able to
9 answer all your questions. Bryan?

10 DR. LUCE: Thank you, Christine. These
11 are the four questions. We're going to be talking
12 about the care management and the head to head this
13 afternoon. As Christine said, we are hopeful that
14 we will have other opportunities in the near future
15 for you to consider.

16 I have asked Steve Clauser to my left and
17 Danielle Whicher to my right to be up here in case
18 you want to drill in a little bit, although I do
19 note we don't have a lot of time. Both of them
20 have lived this for the past year actually.

21 The research question in terms of care
22 management having to do with patient-centered

1 models of Hepatitis C care for people who inject
2 drugs -- the question specifically addressed in
3 this application is which Hepatitis C treatment
4 delivery model for people who inject drugs is more
5 effective for enhancing Hepatitis C treatment
6 uptake, adherence, completion, virological
7 outcomes, and reinfection.

8 This is a two arm randomized control trial
9 of 1,000 people. They are Hepatitis C infected
10 individuals who have used drugs within the past
11 three months who will be recruited from 16 health
12 centers in eight states, all with on-site Hepatitis
13 C care, eight methadone clinics and eight community
14 health centers.

15 The outcomes of interest here in terms of
16 primary outcomes of sustained virological response
17 - adherence, treatment completion, and reinfection,
18 and secondary outcomes - quality of life, relapse,
19 and complications of cirrhosis. The total budget
20 for this study is just slightly more than \$14
21 million.

22 This has extremely strong engagement as

1 does the other program that I'm going to introduce
2 you to, the other application.

3 DR. LEVINE: When you say treatment
4 delivery model, do you mean drug regimen or
5 comparing health system organizations?

6 DR. LUCE: Health system organizations.

7 CHAIRMAN NORQUIST: What are the two arms?

8 DR. LUCE: The arms that are proposed in
9 this study are patient navigation with peer support
10 and direct observation of therapy either conducted
11 in a methadone clinic or through a community health
12 center. The community health center has options
13 for patients to have that observation done in a
14 variety of settings, either at the community health
15 clinic, in a community setting of mutual agreement,
16 or the primary care practice or at their home.

17 DR. LEVINE: There is no variation in the
18 drug regimen, it will be the same drug regimen
19 being deployed in different ways?

20 DR. LUCE: That is correct.

21 DR. McNEIL: What is the follow up?

22 DR. LUCE: The follow up period is 140

1 weeks.

2 DR. McNEIL: The reason I was asking the
3 question, these are drug users, how do we know
4 after 140 weeks they are not going to just pop back
5 on and get Hepatitis again?

6 DR. LUCE: That is about a two and a half
7 year follow up period. One of the discussions that
8 came out of the Selection Committee is exploring
9 the possibility of extending that period even a bit
10 further, and should you agree this study moves
11 forward, that is something we will definitely take
12 up.

13 CHAIRMAN NORQUIST: Bryan, next.

14 DR. LUCE: The potential impact of the
15 study is that results from the study will have the
16 potential to drive programs serving these high-risk
17 people who inject drugs.

18 With that, if I may, I will move on. The
19 next study is a head to head study. It is called
20 the Prioritize Study. It's a pragmatic randomized
21 study of oral regimens for Hepatitis C,
22 transforming decision making for patients,

1 providers, and stakeholders.

2 The research question, what are the
3 comparative benefits and harms of three direct
4 acting antivirals in adults infected with HCV in
5 the U.S. population. This is an open label three
6 arm RCT with just under 4,000 patients, adults in
7 the U.S. diagnosed with Hepatitis C, genotype 1
8 recruited from 45 clinical sites.

9 The primary outcomes of interest are
10 SVR12, sustained viral response over 12 weeks.
11 Patient reported and clinically documented side
12 effects. Secondary outcomes, treatment adherence,
13 treatment persistence, out of pocket costs,
14 amelioration of Hepatitis C symptoms, post-
15 treatment progression or regression of liver
16 disease, persistence of viral cure at three years
17 post-treatment, and functional status during and
18 after treatment. The total budget is \$15.4
19 million.

20 Engagement includes Hepatitis C patient
21 advisory groups, patient organization partnership
22 committee that includes representation from eight

1 patient advocacy organizations. The potential
2 impact here is providing decision makers with
3 evidence about the comparative effectiveness and
4 safety of these new direct acting antiviral drugs
5 for Hepatitis C.

6 CHAIRMAN NORQUIST: Sharon?

7 DR. LEVINE: Same question, what are the
8 three arms? What are the three measurements being
9 compared?

10 DR. WHICHER: Harvoni, Viekira Pak, and
11 the new Merck one to be approved by the FDA in
12 January 2016.

13 DR. LEVINE: It would be helpful to have
14 in the template a description of the different
15 arms.

16 CHAIRMAN NORQUIST: I don't know why you
17 couldn't tell us what the drugs are if we are going
18 to fund it. I think in the future, let's make sure
19 we have the arms so we know the interventions.

20 Is that it?

21 DR. LUCE: Yes.

22 CHAIRMAN NORQUIST: Before we have a

1 discussion, the following Board members have let us
2 know about their intentions to recuse themselves
3 from the discussion and votes on the awards for the
4 clinical management of Hepatitis C infection.
5 Debra Barksdale, Alicia Fernandez, Rick Kronick,
6 and Harlan Krumholz. If there is anybody else, let
7 me know now, please.

8 On the phone, I think we also have Harlan
9 Weisman. Allen and Freda, I assume you are still
10 on.

11 DR. DOUMA: I'm here.

12 CHAIRMAN NORQUIST: Freda?

13 [No response.]

14 CHAIRMAN NORQUIST: Harlan?

15 DR. WEISMAN: Yes, I am.

16 CHAIRMAN NORQUIST: Thanks. Now we are
17 open for discussion.

18 DR. LUCE: You mentioned that we have
19 extensive engagements with national organizations
20 and so forth. I have a list of those organizations
21 if you want to drill into them. They are quite
22 impressive.

1 DR. COLLINS: What is the landscape of
2 other studies of this sort that are being supported
3 by other groups? I just don't know how this fits.

4 DR. LUCE: In terms of the head to head
5 studies, there are no head to head studies that
6 we're familiar with.

7 UNIDENTIFIED: In terms of the care
8 management, for studies that are involving these
9 brand new antiviral agents, there are no other
10 studies that are currently underway to address this
11 issue.

12 CHAIRMAN NORQUIST: Rick?

13 DR. KRONICK: Just to follow up on that
14 question, what is the Merck study that is being
15 proposed for approval? Do you know the structure
16 of the Merck study?

17 DR. LEVINE: Merck has a multi-genome type
18 drug in the pipeline and is likely to be approved.

19 DR. KRONICK: Was there a randomized
20 control study that led to that?

21 DR. LEVINE: It is a drug that is in the
22 pipeline, it has not been compared to anything

1 else. Merck has a drug that had an one year lag.

2 CHAIRMAN NORQUIST: They're adding one of
3 the two that we have. We know this other one is
4 going to be added at that point.

5 DR. LEVINE: The third arm is a drug that
6 has yet to be approved by the FDA, but close.

7 DR. LUCE: This is a study that is
8 projecting that drug will be available.

9 DR. KRONICK: The approval process for
10 that drug --

11 DR. LUCE: It's not a comparison study,
12 for example, Harvoni versus this new agent. It's
13 not delivered in real world settings. It doesn't
14 follow people for more than 24 weeks. It basically
15 is powered by sustained viral response. It's
16 efficacy studies. This is real world comparative
17 effectiveness study after approval.

18 CHAIRMAN NORQUIST: Barbara?

19 DR. McNEIL: I want to ask a general
20 question, Gray. I know the group that selects
21 these grants for approval does an extremely
22 thorough job. My concern is when we get to this

1 stage, I feel like I have no idea what I'm voting
2 on and I have to take it completely on the face of
3 the group that made the selection, and this is in
4 fact a very pro forma vote. Should we have a more
5 robust sense of what's being funded? I think
6 Sharon was getting at that.

7 MS. GOERTZ: I think you bring up a really
8 good question and it is something that we talk
9 about at the Selection Committee and also I was on
10 a conference call with the Governance Committee
11 talking about conflict of interest.

12 In some ways, this all gets down to
13 conflict of interest and how do we make sure we are
14 addressing that appropriately.

15 Tomorrow, we will be cueing up a
16 discussion where we talk about what role would the
17 Board like to have when it comes to selecting what
18 we fund and specifically do you have more clarity,
19 to make sure the Selection Committee is doing the
20 due diligence that you would want before it comes
21 to the Board for recommendation.

22 DR. McNEIL: Just to be clear, Christine,

1 I wasn't asking for more due diligence on the part
2 of the Selection Committee. I am going to assume
3 they do the work. I was just asking what kind of
4 information --

5 MS. GOERTZ: I wasn't clear.

6 UNIDENTIFIED: Could I just point out,
7 Barbara, because I think this is a burning question
8 in some people's minds, the Board has seen the
9 questions in terms of after we had our stakeholder
10 groups, we proposed a set of four questions
11 including the two questions these studies address.

12 These studies then were competed through a
13 funding announcement and a merit review panel, a
14 peer review process, rated these studies highly.
15 Beyond that, staff worked very hard on them to get
16 additional information when needed and presented it
17 to the Selection Committee, which actually had a
18 fair amount of information about them on which to
19 decide whether they looked like studies that could
20 go forward.

21 At this point, the Board has still some
22 lingering responsibilities but it is not to conduct

1 a third round of methodologic reviews. I think
2 that has been accomplished. I think you still need
3 to say whether there is something about this
4 particular question as judged from the title that
5 is objectionable. You need to say whether this
6 amount of money seems appropriate.

7 I think you can't really submit applicants
8 to triple jeopardy here. The Selection Committee
9 is definitely a layering on of additional review
10 and additional criteria.

11 It would also be very hard to do it in
12 public or even in a day catch you up on the amount
13 of information that the people who make this
14 recommendation had at their disposal.

15 DR. WEISMAN: I agree with Barbara. I
16 raised this previously. What I was told, Barbara,
17 and I'm going to use my words, not necessarily the
18 answer, but that it is perfunctory, that we have a
19 fiduciary responsibility to approve budgets.

20 My feeling is if we come up with a method,
21 can't we approve from the Board level a general
22 area of research and then delegate the

1 responsibility for the specifics of how the money
2 is being spent to the Selection Committee?

3 Otherwise, it is sort of a farce. I have
4 no way of knowing on any of these, on any given
5 presentation, whether these are good or not good
6 research questions or research proposals. I am
7 fully confident in the abilities of the Selection
8 Committee to make those judgments. Are we really
9 required to bring these to Board vote? It's sort
10 of a silly exercise.

11 CHAIRMAN NORQUIST: We are going to have
12 more discussion. We are trying to do it with the
13 Governance Committee. I think what we are
14 operating on as I said earlier, Francis, what we
15 said earlier.

16 DR. COLLINS: I think what would help with
17 this, if I could make a suggestion, I do think we
18 need to make decisions at the Board about funding,
19 maybe hear a little more from the Selection
20 Committee about the conversations they had. That
21 was sort of missing here. We saw here are the two
22 that are being proposed.

1 Christine, I don't know if you can do this
2 off the cuff or maybe for the future if we just had
3 that snapshot, that is a group that we trust that
4 has expertise. I think it would be helpful to the
5 Board to hear what were the conversations you had
6 about the pro's and con's of what was put in front
7 of you and why did you come down the way you did.

8 CHAIRMAN NORQUIST: I think that would be
9 helpful. I think that would alleviate some of the
10 concerns people have. Christine, maybe you can
11 help with that.

12 MS. GOERTZ: I agree completely. I would
13 have a little trouble doing that off the cuff right
14 now. I don't have my notes in front of me. I
15 would just hate to misspeak. I think that is an
16 excellent idea and I am committed to making sure we
17 do that in the future.

18 CHAIRMAN NORQUIST: I do know in this case
19 that a couple of the people involved are recused
20 now, and I know you guys went a lot back and forth
21 on these, and there are other applications that are
22 still undergoing some further review that are not

1 being presented, four of the other two topic areas,
2 so these are the only two that have been brought
3 forward after much discussion.

4 MS. GOERTZ: Right, that's exactly right.
5 These were not the only applications that were
6 presented to us for consideration but these were
7 the only ones we felt comfortable with moving
8 forward with until we had more information.

9 CHAIRMAN NORQUIST: Leah?

10 MS. HOLE-MARSHALL: I would just add
11 generically that for those of us who could vote on
12 the Selection Committee, these two were unanimously
13 approved to move forward with a recommendation to
14 the Board.

15 MS. GOERTZ: Right, absolutely. That, I
16 could have done off the cuff.

17 CHAIRMAN NORQUIST: Okay. Any further
18 comments? Allen?

19 [No response.]

20 CHAIRMAN NORQUIST: What I need now is a
21 motion to approve the funding of these two
22 particular awards. That is what we are approving,

1 the funding.

2 UNIDENTIFIED: So moved.

3 UNIDENTIFIED: Second.

4 CHAIRMAN NORQUIST: I'm going to have
5 people in the room hold up your hands if you are in
6 favor of funding these two awards.

7 [Show of hands.]

8 CHAIRMAN NORQUIST: Anybody opposed?
9 Anybody abstaining?

10 [No response.]

11 CHAIRMAN NORQUIST: On the phone, Harlan?

12 DR. WEISMAN: I support it, I vote yes.

13 CHAIRMAN NORQUIST: Freda?

14 [No response.]

15 CHAIRMAN NORQUIST: Allen?

16 DR. DOUMA: I approve.

17 CHAIRMAN NORQUIST: It passes. Thank you
18 very much.

19 The next topic is one where we are going
20 to discuss two targeted funding announcement
21 topics, basically. We are going to be talking
22 about the one we brought back, which is the issue

1 about opioid misuse and how we deal with that, and
2 then multiple sclerosis, which we will consider
3 separately. I want to have them discussed as
4 separate items, not as a package.

5 MS. GOERTZ: Bryan, are we going to start
6 with multiple sclerosis first?

7 DR. LUCE: We will start with multiple
8 sclerosis. I am going to go through this very
9 quickly because --

10 CHAIRMAN NORQUIST: We are back on
11 schedule now. We want to leave room for
12 discussion.

13 DR. LUCE: Just to remind the Board, this
14 is the pathway to a funding announcement, this is
15 what we are talking about, a funding announcement
16 and a commitment to a funding announcement. It is
17 really quite a long process that deeply involves
18 staff and involves stakeholder groups and the
19 advisory panels of the different research programs
20 that we have, and the SOCs involved throughout,
21 literally throughout.

22 Reviewing the initial topics that come

1 into us from various stakeholders, which in essence
2 is this list one, and it goes to list two, and it
3 keeps getting refined until we are before you
4 making a recommendation for an announcement, just
5 to give you a sense of the intensity of the
6 process.

7 We have already approved 10. The most
8 recent ones were the new oral anticoagulants and
9 treatment-resistant depression, that I'm sure you
10 are familiar with.

11 For today, as Gray just mentioned, we have
12 long-term opioid treatment for chronic pain,
13 treatment for MS. I will start off with MS.

14 Also, soon to come up to you likely is
15 chronic low back pain and integration of mental
16 health into primary care in diabetes.

17 DR. LEVINE: I just wanted to clarify, the
18 topic brief presentation, does that include the
19 literature review on the topic?

20 DR. LUCE: The answer is yes, but it is a
21 brief, it is not a formal systematic review.

22 DR. LEVINE: It's not an evaluation of the

1 quality of the research?

2 DR. LUCE: It's an evaluation of the
3 quality of the research and what the gaps are.
4 That typically goes to the advisory panels for
5 review and comments.

6 MS. GOERTZ: It is a summary of the
7 evidence and an overview of sort of the state of
8 the science. If you would like to see one, we
9 could make that available.

10 DR. LUCE: I'm going to skip to treatment
11 of multiple sclerosis. I have asked Diane Bild to
12 my immediate right to be available in case you want
13 to drill into any particular questions. Diane has
14 been following this and shepherded this all the way
15 through for a long time.

16 As you all know, multiple sclerosis is a
17 chronic degenerative condition of the central
18 nervous system characterized by damage to the
19 myelin sheaths of nerves resulting in fatigue,
20 numbness, visual disturbances, bladder problems,
21 mobility difficulties, and other symptoms. It is
22 really a very challenging disease for approximately

1 400,000 Americans. Most patients are diagnosed
2 between 20 and 40 years of age, and a great deal of
3 them are female.

4 The clinical course is highly variable, it
5 generally unfolds over decades, and symptoms range
6 from mild to the development of very severe
7 disability.

8 There are three approaches to MS treatment
9 disease modifying therapy to slow progression;
10 steroids for relapses, and symptomatic treatments
11 for specific symptoms of the disease and side
12 effects of treatment regimens.

13 Over a long clinical course, symptoms that
14 affect quality of life are life long. The DMTs,
15 the disease modifying therapies, are used in
16 patients with relapses or inflammatory activity.
17 However, there is little evidence to support
18 specific DMT choices or strategies. There are many
19 symptom specific medications that have not been
20 well evaluated or compared. That is true with
21 respect to the DMTs themselves, in terms of having
22 them directly compared with each other.

1 In April, we had a multi-stakeholder work
2 group. It included 43 participants. You can see
3 the breakdown in the multi-stakeholder work group
4 in terms of where they came from. They grouped
5 themselves or we helped group them into four
6 different categories - comparisons of DMTs,
7 including differential effects in subgroups, care
8 strategies, non-DMT and non-pharmacologic therapy
9 for specific symptoms and overall health and timing
10 of therapy and study design. Each one of these
11 areas were addressed in terms of what are the
12 appropriate questions that we may be interested in
13 addressing.

14 In terms of the need for better evidence
15 through all of this process, and it does include a
16 topic brief, the Canadian Agency for Drugs and
17 Technologies in Health, CADTH, in 2013 noted a
18 limited number of RCTs directly comparing DMTs for
19 relapsing-remitting MS.

20 There were 17 systematic reviews that
21 indicated insufficient evidence of treatment of MS
22 symptoms, and a recent systematic review on tele-

1 rehabilitation for patients with MS concluded there
2 is a need for more robust trials.

3 We have been dealing with this issue for a
4 while now, having a very difficult time trying to
5 figure out what exactly we could do to improve the
6 evidence base.

7 The three questions that we are proposing
8 be part of this announcement are first, what are
9 the comparative benefits and harms of different
10 DMTs or therapeutic strategies in patients with
11 relapsing-remitting MS on symptoms, functioning,
12 quality of life, disease activity, and disease
13 progression.

14 Population of interest would be patients
15 with relapsing-remitting MS. Comparators would be
16 different DMTs, including strategies for sequencing
17 or combining agents, changing to a different DMT or
18 escalating DMT dose. Outcomes would be symptoms,
19 functioning, quality of life, disease activity,
20 disease progression.

21 We are proposing this to be in an
22 outpatient setting, an RCT of five years, proposing

1 to commit up to two studies, \$30 million in total
2 costs.

3 The second question is what are the
4 comparative benefits and harms of different
5 approaches, other than DMTs, for ameliorating
6 important symptoms in people with MS. Symptoms of
7 interest include -- you can see all of these
8 particular symptoms, which is substantial.

9 The population would be patients with MS,
10 including progressive MS. Comparators would be
11 non-DMT symptomatic therapies. Outcomes would be
12 symptom relief and quality of life. Again, this
13 would be an outpatient study. An RCT of over three
14 years. We are recommending a commitment of \$10
15 million for up to four studies. \$10 million in
16 total costs.

17 The third and final, in people with MS,
18 what is the comparative effectiveness of tele-
19 rehabilitation versus conventional direct care
20 interventions for improving outcomes in people with
21 MS, such as functional status, fatigue, and quality
22 of life.

1 These would be patients with MS including
2 progressive MS. The comparators would be
3 conventional direct care versus telerehabilitation.
4 Outcomes would be functional improvement, fatigue,
5 patient experience, health related quality of life.
6 Again, this is a randomized control trial over four
7 years, and we are proposing to commit \$10 million
8 for up to two studies.

9 Those are the three questions of interest.
10 Diane is here if you have particular questions you
11 want to address.

12 CHAIRMAN NORQUIST: Larry, and then Gail,
13 and then we will get to the people on the phone.

14 MR. BECKER: Go back to question number
15 one, the two studies for \$30 million.

16 CHAIRMAN NORQUIST: Larry, you need to
17 talk into the microphone.

18 MR. BECKER: Sorry. Two studies, up to
19 \$30 million. How did you come to two studies would
20 be enough and \$30 million ought to cover this
21 question?

22 DR. LUCE: That is definitely a Diane Bild

1 question.

2 DR. BILD: Yes, thank you. There is sort
3 of a sub-bullet. We were thinking of two different
4 approaches. One is what is the initial approach to
5 treating MS with DMTs, and the second general
6 question is what happens after you have failures,
7 so to speak, with your initial DMT, how do you
8 choose the second line therapy.

9 We listed a number of different strategies
10 in terms of how the medications could be chosen or
11 a change in their dose, et cetera. That would be
12 left up to the investigator.

13 CHAIRMAN NORQUIST: Did that help?

14 MR. BECKER: It is really complicated and
15 just two studies feels like -- I don't know.

16 DR. LUCE: It really is complicated. The
17 outcomes take a while to observe. There are 12
18 drugs. There is a wide practice variation right
19 now.

20 Diane laid out two of the crucial decision
21 points. One is which agent makes the most sense to
22 start with, and does that differ among subgroups of

1 patients with the condition.

2 The second question, a very different
3 question and a different study population, as Diane
4 just laid out, in people who have failed the first
5 therapy, where do you go next. Do you add a
6 therapy. Do you substitute a therapy.

7 Those two questions are distinct, those
8 are the two questions that clinicians and patients
9 have told us we should really get started on, and
10 because these studies have outcomes that take a
11 while to occur, you need a fairly large sample size
12 in a period of time.

13 MR. BECKER: I'm not quibbling with it's
14 the right thing to do. I'm just trying to figure
15 out how did we figure out how much and how many
16 studies.

17 DR. LUCE: The two studies were because
18 there were two distinct questions. That is why we
19 have two studies. Two equals two. The other point
20 about the samples, I'm pretty sure, Diane, that we
21 did do some sample size calculations. In fact,
22 didn't we even engage someone to do some sample

1 size calculations for us, and to which we applied
2 cost estimates?

3 DR. BILD: Right.

4 CHAIRMAN NORQUIST: All this is
5 hypothetical. We will see what kind of research
6 studies come in. Somebody may be creative and come
7 in for \$20 million. We will see what we get. The
8 real interest is going to be what comes in under
9 this question, to be quite honest.

10 DR. LUCE: Did you have an alternative
11 suggestion, Larry?

12 MR. BECKER: I do know when you make it
13 more and more complicated, you try to break it down
14 in bite size pieces so you can compare these two
15 things and then those two things, rather than -- I
16 think I heard you say there were 12 different
17 things here.

18 DR. BILD: The 12, a little bit more of
19 the details that the clinicians will understand.
20 It's not that any of the 12 is used as initial
21 therapy and they are all equal for the next step.
22 Again, we would rely on the real experts, the

1 investigators out in the field, to craft the
2 appropriate questions under these parameters.

3 DR. LUCE: This is an inexact science for
4 sure. There is very little if any head to head
5 studies on these products.

6 CHAIRMAN NORQUIST: Gail, and then Rick,
7 and then the two Bobs.

8 MS. HUNT: What is tele-rehab?

9 CHAIRMAN NORQUIST: It's the third
10 question, I was going to ask, too.

11 MS. HUNT: Just generally, when you say
12 tele-rehabilitation, could you describe what that
13 is that you had in mind?

14 DR. BILD: I'm also gesturing to one of my
15 colleagues, Steve Clauser, who worked up this
16 question. It has to do with therapies that are
17 delivered remotely in general.

18 MS. HUNT: I know that part. I meant
19 something more specific. I know what tele-medicine
20 is. I'm at a loss of what tele-rehab means.

21 DR. CLAUSER: I just wanted to comment
22 there are a few of these types of interventions

1 that have been studied in much smaller trials using
2 a lot of web based interfaces between the
3 individual and remote experts who can actually work
4 them through these particular rehabilitation
5 therapies, and then kind of monitor that and
6 communicate back and forth with their primary
7 clinicians on that particular intervention.

8 CHAIRMAN NORQUIST: Is this a comparison
9 of like providing it in person or providing it by
10 tele-health connection or is it an unique
11 intervention that is provided by the tele-health
12 connection?

13 DR. LUCE: I'm not exactly sure I
14 understand your question. Could you clarify it?

15 CHAIRMAN NORQUIST: Some questions are
16 simply if I do this in person, if I do it by a
17 tele-health connection, is it the same, do you get
18 the same results as if you did it in person. That
19 is simply the comparison of the technology, if you
20 will.

21 There are other questions that focus on is
22 it something unique like if you broadened the term

1 "tele-health," you get into social networking and
2 other kind of things like that you could do that
3 are actually unique interventions that are
4 delivered over the technology that can be compared
5 in another kind of way.

6 If that's the question, that's completely
7 different than the first question, which simply is
8 comparing in person versus the technology from a
9 distance, which quite honestly, if that's the
10 question, that's a question that has been answered
11 100 times, I think, and that is what I'm trying to
12 get at here.

13 Is that what you are testing or something
14 unique that you are delivering by this technology?

15 DR. LUCE: There are a couple of things
16 that are unique. One is that a number of the
17 studies that have been done regarding MS have
18 largely been done with specialty centers, looking
19 at specialty center direct care versus specialty
20 center remote delivery.

21 This is looking for individuals that do
22 not have access to specialty centers, where there

1 are real evidence gaps about how to deal with these
2 patients that are in communities or in rural areas
3 that don't have access. It is dealing with the
4 population issue, which really hasn't been studied
5 in this area effectively.

6 The second question is they are comparing
7 specific modalities against one another, using
8 either a tele-health approach or not. Those
9 comparative studies have not been done to the
10 standpoint where they can demonstrate to patients
11 or at least for some subset of patients which one
12 of these is really the most effective in terms of
13 their ability to achieve their functional
14 objectives regarding issues related to
15 rehabilitation.

16 DR. KUNTZ: At the risk of re-litigating
17 because we did discuss this in the SOC, the timing
18 seems tough. Question two is trying to figure out
19 which approach, DMT approaches, actually will work.
20 By asking question two, I think we are saying we
21 don't really know that, and we had this discussion
22 in the SOC for people with secondary progressive,

1 where I think there is missing information about is
2 there anything that will work to alleviate symptoms
3 and help people with walking, et cetera.

4 Not yet having answered that question, it
5 then seems very difficult to figure out what we are
6 going to do on question three, which is will this
7 stuff work as well or better if we do it remotely
8 as if we do it face to face.

9 I'm still kind of struggling with that
10 piece.

11 UNIDENTIFIED: My understanding of the
12 tele-health question is about people who don't have
13 access to MS centers, which is a lot of people. It
14 is less about the use of novel therapies, which as
15 you point out we have yet to have evidence around,
16 and more about the use of the expertise available
17 at an MS center.

18 Let me give you an example. MS person is
19 in a wheelchair or perhaps has problems with bowel
20 or bladder control. Access to a nurse who can help
21 with that via tele-medicine, without having to
22 undertake this enormous trip to go and see someone

1 for 15-20 minutes, might be extraordinarily
2 valuable for that patient.

3 Or for example, physical rehab, going to a
4 rehab center, you learn to do the exercises, you go
5 home, can a physical therapist deliver via tele-
6 health, can they see enough, be safe enough, be
7 helpful enough to be able to actually help the
8 patient see whether or not they are doing the
9 exercises correctly and can gain more strength.

10 What I'm saying is when you go to one of
11 these centers, as you know, there is an
12 accumulation of expertise and a lot of little,
13 meaning not which drug is going to change the
14 course of the disease, but a lot of the things that
15 greatly affect the quality of life for patients
16 with these conditions.

17 To me, this seems like a very reasonable
18 question. I don't know what the investigators will
19 come up with in terms of what they will be looking
20 at, nursing access, physical therapist access,
21 physician access. It is useful to know whether
22 these centers of expertise can communicate remotely

1 with the patient in a way that is actually useful
2 for this often heavily incapacitated, heavily
3 immobile patient population.

4 Did that help?

5 DR. KRONICK: It does, but I think the
6 answer presupposes kind of the answer to question
7 two, which is if what these centers are doing is
8 actually helpful. I read question two in part as
9 asking that, or at least what pieces of what the
10 centers are doing is helpful.

11 I think for secondary progressive, as far
12 as I'm aware, we don't really know that. It's a
13 little bit tough to then ask which pieces of it can
14 be done remotely when there is still missing
15 information about which pieces of it are helpful
16 when done in person.

17 UNIDENTIFIED: No, I don't see it that
18 way. I think you are right that there are many
19 aspects of things that are being done that we don't
20 know yet, how efficacious they are, or if they are
21 efficacious, is one more efficacious than another.

22 I think there are many things that we

1 actually do know that is accumulated through
2 experience and expertise in those centers.
3 Certainly, when I have had colleagues/friends who
4 have MS, I have said go to an MS center, it's not
5 so much the physicians you want, it's the nurses.
6 They will help you. They will figure it out.
7 Having access to those people in terms of living
8 your life in a day to day world can be
9 extraordinarily important, notwithstanding all
10 unfortunately that we have yet to learn about these
11 diseases.

12 For example, exercise is one that would
13 fit into this category.

14 CHAIRMAN NORQUIST: If you go in person,
15 you are assuming that, I am still wondering if
16 going to the centers in person -- it may depend on
17 the center you go to, for that matter, which may be
18 unique. I don't know if that question is answered
19 if you then start looking at whether it is
20 delivered over a tele-health connection, okay, but
21 first I would want to make sure that even in person
22 I'm getting an added benefit, more than going to my

1 GP.

2 Allen, I know you have a question. I have
3 Bob Zwolak first and then Bob Jesse.

4 DR. ZWOLAK: Thank you. We have spent
5 hours discussing this very complex subject on the
6 SOC. I learned a lot.

7 CHAIRMAN NORQUIST: Which complex subject?

8 DR. ZWOLAK: All three. I learned a lot
9 about this, but would like to make a comment about
10 three and a question about one. The comment about
11 three is in a way I see this as perhaps the most
12 patient-centered question of them all, especially
13 coming from a rural area, which is two and a half
14 hours from one of these centers, it's very, very
15 helpful if the established therapy could be
16 delivered effectively by tele-health.

17 Having said that, I realize it is sort of
18 a theoretical contradiction with two, but I think
19 three is really important. I think we do know
20 enough about treatments to test tele-health.

21 The question I have to Diane and Bryan
22 about one was this is a follow up to what Larry

1 said, there are two limiting parameters here. One
2 is up to two studies, up to \$30 million. My
3 suspicion is the studies will come in at high
4 dollar bids because they are complex studies.

5 Why would we sort of arbitrarily limit
6 this at two, if someone came in, three people came
7 in with high quality \$10 million studies, would we
8 refuse one of them? I'm wondering if two is not
9 potentially an artificially limiting parameter.

10 DR. LUCE: I guess my answer to that is we
11 still have the freedom to maneuver, it doesn't
12 constrain us, I don't believe.

13 CHAIRMAN NORQUIST: You're going to get
14 more than two applications, probably, we hope. You
15 could get four applications. What we are saying is
16 \$30 million is probably a cap on the budget, but we
17 will see. It could be that we want to spend \$35
18 million if we really have three great studies. I
19 think it will depend on what we get.

20 DR. LUCE: We are actually asking for
21 approval of \$50 million total. That is to answer
22 the other questions, too.

1 DR. JESSE: My concern, and I am going to
2 sort of ask the same question Rick did in a
3 different way, we don't spend \$50 million to be yet
4 another study and systemic review that doesn't
5 answer the questions that need to be answered.

6 From the perspective of the Board, it
7 would be very useful to hear that the endorsing
8 committees really believe these are the fundamental
9 unanswered questions, and that supporting these
10 studies is really going to meet a very fitting
11 need.

12 As Larry said, we would be breaking it
13 down into much smaller soluble units, which some of
14 this is, particularly around tele-health and the
15 like. Are we certain these investments will
16 actually answer from the patient's perspective
17 those pressing needs and not just contribute to
18 another little chunk that doesn't fundamentally get
19 to the root of the problems.

20 CHAIRMAN NORQUIST: Bob, I think you
21 chaired the particular committee that discussed
22 this topic.

1 DR. ZWOLAK: I chaired one of the three or
2 four sessions we had about this.

3 MS. GOERTZ: I think all of you are
4 bringing up a good point in that in the future, we
5 can give you a better and more comprehensive recap
6 of what the discussions are. We have the notes.
7 We actually have pretty good notes from all of
8 these meetings and we would be able to start off
9 all of these discussions, both with the Selection
10 Committee and with the SOC, about what was the
11 nature of the discussion, and why it was in the end
12 we felt strongly about moving forward.

13 UNIDENTIFIED: That actually starts the
14 discussion at the Board at a very different place.

15 CHAIRMAN NORQUIST: Yes, I think that is a
16 good point. Allen?

17 DR. DOUMA: I have two questions. The
18 first one is are we going to have any arms of any
19 of these three areas where the person is not taking
20 a DMT either because they were assigned a placebo
21 or otherwise?

22 My second question, Joe, I think you

1 talked about we are going to be looking at what do
2 you do after failure, which is one of the
3 challenges in this area, defining failure. Are we
4 proposing we are going to do that for the
5 researchers or are they going to do that for us?

6 DR. LUCE: The answer to the first is no,
7 we're not going to have a placebo arm.

8 DR. KUNTZ: When we discussed the second
9 study, there was discussion about the importance of
10 having a study for people with secondary
11 progressive and in full disclosure, my wife does
12 have secondary progressive, so I'm not
13 disinterested here, and most people who are
14 secondary progressive or many people are not on
15 disease modifying therapy.

16 There was even some discussion on trying
17 to focus that question entirely on people with
18 secondary progressive, and I know that is not where
19 we got here.

20 There would be, I think, correct me if I'm
21 wrong, substantial numbers of people in this study
22 who were not on a DMT, it is not a placebo arm, to

1 Allen's question.

2 DR. DOUMA: Even with relapsing-remitting,
3 and I have a conflict there, I guess, do we feel
4 comfortable enough to know that somebody, a huge
5 percentage of people, are not taking any DMTs,
6 don't plan to take any DMTs, do we think that has
7 been solved, they should, or we going to just try
8 to not go down that pathway because it gets too
9 complicated?

10 MS. GOERTZ: I may have lost track of the
11 questions, but there was a question about whether
12 we would entertain placebo-controlled studies, and
13 I think Bryan answered that.

14 There was a question that if somebody was
15 not on DMTs, would we encourage their use. That is
16 the way I heard it. The first question here is on
17 the strategy for prescribing and using and choosing
18 among DMTs. There was also a question about how we
19 would define "failure." We would not make that
20 definition for the investigator. We would expect
21 they would come in with their proposal with a valid
22 definition of "failure."

1 UNIDENTIFIED: The proposed research
2 question one is what are the comparative benefits
3 and harms of different DMTs or therapeutic
4 strategies. Might one of the therapeutic
5 strategies that an investigator proposed be not
6 using a DMT for someone with relapsing-remitting.

7 MS. GOERTZ: The wording of that question
8 was meant to be not just the choice of the DMT but
9 whether it was a combination or the dose or the
10 strategy. We will start with one and then we will
11 go to another.

12 I think if somebody came in with that kind
13 of a proposal and it fits the question, we would
14 consider it.

15 UNIDENTIFIED: Are we talking about
16 slightly modifying the question then to make it
17 more clear that would be one comparison that would
18 be acceptable?

19 MS. GOERTZ: We can work on that.

20 CHAIRMAN NORQUIST: Harlan?

21 DR. WEISMAN: I don't have any new
22 questions. I think this is one of the most

1 important therapeutic quagmires we have. Effective
2 treatment for multiple sclerosis, which is a
3 complex condition with many different forms, it is
4 daunting just listening to the discussion.

5 On the other hand, I feel it is important
6 for PCORI to tackle this, and my view is all the
7 things we have talked about are really important,
8 but it is going to come down to what are the
9 specifics of the research proposals that are sent
10 to us.

11 I imagine what sounds like was a
12 challenging discussion in the committee, it will be
13 even more challenging when reviewing actual
14 submitted applications. I think we have to just go
15 forward with it and not shy away from it because it
16 is so important and so complex, and whether we take
17 the kind of approach that Larry was advocating or
18 some other approach, I guess I would leave to the
19 wisdom of the committee.

20 CHAIRMAN NORQUIST: We are getting a
21 little behind on our time. I think we all agree
22 with that. Nobody is disagreeing that the topic is

1 not important. It is just the parameters around
2 each of these questions, I think. Indeed, I think
3 it is going to depend a lot on what kind of
4 proposals. We may get zero proposals. We will
5 see.

6 Any further discussion about this
7 particular topic?

8 [No response.]

9 CHAIRMAN NORQUIST: What I need is a
10 motion to approve issuing this targeted funding
11 announcement for multiple sclerosis for these three
12 questions.

13 UNIDENTIFIED: So moved.

14 UNIDENTIFIED: Second.

15 CHAIRMAN NORQUIST: In the room, I need
16 people to hold up their hands if you are in favor.

17 [Show of hands.]

18 CHAIRMAN NORQUIST: Anyone opposed in the
19 room? Abstaining?

20 [No response.]

21 CHAIRMAN NORQUIST: On the phone, Allen?

22 DR. DOUMA: I approve with the caveat that

1 I hope we incorporate a lot of the conversation,
2 including my conversation about this.

3 CHAIRMAN NORQUIST: I think they will.
4 You approve. Okay. Freda?

5 DR. LEWIS-HALL: Approve.

6 CHAIRMAN NORQUIST: Harlan?

7 DR. WEISMAN: Approve.

8 CHAIRMAN NORQUIST: It passes.

9 UNIDENTIFIED: I voted to approve. I
10 would like to make one last comment. I still think
11 there is likely to be much more value from
12 questions one and two, and as the applications come
13 in, I would hope the Selection Committee would look
14 carefully at that, if there is a compelling
15 argument from an applicant on question three, that
16 it makes sense to go forward, but it still seems
17 like a logical problem that if we don't know from
18 question two what is really working, how we are
19 going to do question three.

20 CHAIRMAN NORQUIST: I agree. I think that
21 gets into the weight of what we want to put on each
22 of these questions.

1 Let's move on, clinical strategies for
2 managing and reducing long term opioid use for
3 chronic pain.

4 DR. LUCE: I just want to note we chose MS
5 first because it was going to be so easy.

6 CHAIRMAN NORQUIST: We do have a break
7 scheduled. We have to take a break at some point
8 here.

9 DR. LUCE: The Board will remember that we
10 brought this to you in the last meeting. I won't
11 go through the whole discussion by any means. I
12 want you to know the staff listened very carefully.
13 They discussed the issues that were raised with
14 specific Board members that had issues and had
15 ideas, and spent some time talking with the
16 National Institute on Drug Abuse, NIDA, about these
17 issues as well. They reformulated the questions.

18 Layla Lavasani is to my right in case you
19 want to drill down into specific issues.

20 Quickly, the overview, you have seen.

21 CHAIRMAN NORQUIST: Christine, did you
22 want to say something?

1 MS. GOERTZ: The SOC paid a lot of
2 attention to the discussion that occurred during
3 our Board conference call. We went back. There
4 was a lot of intense conversation following on that
5 discussion about what to do. This is an area where
6 everybody is not necessarily in complete agreement,
7 but I can tell you that all of us felt very
8 comfortable with where we ended up finally with
9 this particular funding announcement.

10 UNIDENTIFIED: One comment that came up at
11 the last meeting was whether we had checked these
12 particular questions out with substance abuse
13 research experts, particularly those at the
14 National Institute for Drug Abuse. We did,
15 including a really nice conversation with Dr.
16 Volkow, the Director of NIDA, and two other
17 persons.

18 They said the two questions here are
19 different and extremely important from their point
20 of view. We did identify a third question which
21 may be the topic of a future funding announcement
22 about primary prevention of opioid use.

1 These two that are put forward today have
2 ringing endorsement from NIDA.

3 DR. LUCE: Do you want me to cut right to
4 the chase?

5 CHAIRMAN NORQUIST: Yes.

6 DR. LUCE: These are the two proposed
7 questions we are putting forth to you. The first
8 deals with the comparative effectiveness of
9 strategies to reduce or to eliminate opioid use
10 while managing pain, and the second is the
11 comparative effectiveness of strategies to prevent
12 dose escalation.

13 I think both of those questions are
14 directly related to the concerns that Sharon and
15 others shared.

16 DR. LEVINE: In our conversation, and I
17 think even in the general conversation about this,
18 it is important that we qualify this to reduce or
19 eliminate opioid use while managing chronic non-
20 cancer pain.

21 DR. LUCE: That's correct. That is true
22 with both of them, both non-cancer pain.

1 Among patients with chronic non-cancer
2 pain, moderate to high dose long-term opioid
3 therapy, what is the comparative effectiveness of
4 the strategies for reducing or eliminating opioid
5 use while managing pain. You can see the
6 strategies.

7 The population is patients with chronic
8 non-cancer pain on high dose long term opioid
9 therapy, the comparatives may include structured
10 opioid dose reduction versus opioid dose reduction
11 combined with non-opioid interventions. The
12 outcomes are pain control at six and 12 months,
13 opioid dose reduction or elimination at six to 12
14 months, and functional status, quality of life,
15 opioid misuse, safety, mortality, medical side
16 effects of treatment, depression score,
17 hospitalizations, and other health services.

18 We are proposing the study would have a
19 greater than one year follow up, an RCT of three to
20 five years. It would be a subgroup analysis, how
21 does effectiveness vary based on patient
22 comorbidities, mental health disorders, past or

1 current substance abuse disorders.

2 Do you want to discuss this before I go
3 onto the next question?

4 CHAIRMAN NORQUIST: Why don't you show us
5 the second question.

6 DR. LUCE: The second question, a lot of
7 it is very similar, except we are talking about
8 different patient populations slightly.

9 Among patients on moderate to low dose
10 long term opioid therapy, what are the comparative
11 effectiveness of harms and strategies used to limit
12 dose escalation. The population is chronic non-
13 cancer pain but on moderate/low dose long-term
14 opioid therapy.

15 The protocols and the comparatives would
16 be the protocols to limit those escalations versus
17 standard risk mitigation strategies. Comparisons
18 may include strategies of non-opioid interventions
19 or opioid rotation or dosing strategies or other
20 risk mitigation strategies.

21 The outcomes are pain control at six and
22 12 months, opioid dose at 6 and 12 months, quality

1 of life, opioid misuse, safety, mortality, side
2 effects of treatment, and depression score,
3 hospitalizations, and other health services.

4 This would also be a study that is over an
5 one-year follow up, RCT over three to five years.
6 The potential subgroup analyses, how does the
7 effectiveness vary depending on patient
8 comorbidities, such as mental health disorders,
9 past or current substance abuse disorders, and the
10 type or cause of pain.

11 We are proposing to commit for these two
12 questions up to four studies, \$40 million total
13 cost.

14 DR. KUNTZ: First, these are really
15 important questions, like MS. I just wondered when
16 I look at the variable you have here, should we be
17 thinking more about portfolio studies. A single
18 study is not going to answer the question, it is
19 going to be a group of studies. I wonder if we can
20 think on the MS side, too, to say maybe we can
21 think about a structured set of studies that would
22 really answer the question together and give a

1 little bit of guidance.

2 DR. LAVASANI: One of the things we talked
3 about was the outcomes for research question two
4 would be at least 6 and 12 months. In terms of
5 further defining what high, medium, and low dose
6 is, we would have further discussion about whether
7 it could be consistent with the CDC recommendation
8 or that researchers indicate if they are not going
9 to be consistent, why that is, and to have that
10 information available for us. There is broad
11 variation in how people define those terms. I
12 think we want to be consistent.

13 MS. GOERTZ: I think what we were thinking
14 about is high dose versus moderate dose, there are
15 different measures. CDC, of course, uses
16 particular measures. We thought about defining
17 high dose within the funding announcement as 120
18 milligrams morphine equivalent dose per day, that
19 has become the Washington State's guideline. We do
20 understand that varies, and we would give
21 investigators options to provide justification for
22 the thresholds they will use.

1 UNIDENTIFIED: I do think we should
2 consider consistency with the CDC guidelines
3 because this is a Federal platform. Because it
4 varies by state, I think using a national standard
5 -- while we are not a national agency, being more
6 consistent with that would be helpful. I don't
7 think we would have to require it. We could say
8 this is where we would like individuals to start,
9 and the researchers could let us know if they felt
10 it was appropriate to have a different standard.

11 CHAIRMAN NORQUIST: That's a good point.
12 If they wanted to make an argument of why they
13 didn't want to use that, we should consider that
14 argument. Yes, I think that is a good idea.

15 For the people on the phone, we don't have
16 any other comments here. Do you have any
17 questions?

18 [No response.]

19 CHAIRMAN NORQUIST: I think you guys did a
20 wonderful job of coming back with the questions
21 revamped and reorganized and listened to the
22 concerns, so thank you very much for that.

1 UNIDENTIFIED: I do feel very strongly, so
2 I just wanted to make that statement here that we
3 don't have a question on primary prevention that
4 should be on the table, there has been a commitment
5 with staff to at least investigate whether that
6 possibly could occur.

7 I appreciate these questions and I think
8 they are very important.

9 CHAIRMAN NORQUIST: We should make it
10 clear that there may be a third question. What we
11 are asking for now is basically on these two
12 questions, so I need a motion to approve this
13 potential \$40 million.

14 UNIDENTIFIED: So moved.

15 UNIDENTIFIED: Second.

16 CHAIRMAN NORQUIST: In the room, if
17 everybody would raise their hand who is in favor of
18 this.

19 [Show of hands.]

20 CHAIRMAN NORQUIST: Opposed? Abstaining?

21 [No response.]

22 CHAIRMAN NORQUIST: On the phone, Allen?

1 DR. DOUMA: Approve.

2 CHAIRMAN NORQUIST: Freda?

3 DR. LEWIS-HALL: I do.

4 CHAIRMAN NORQUIST: Harlan Weisman?

5 DR. WEISMAN: Approve.

6 CHAIRMAN NORQUIST: Francis Collins before
7 he left said he approved. It passed unanimously.
8 Thanks. With that, we have about a 15 minute
9 break. Thanks.

10 [Recess.]

11 CHAIRMAN NORQUIST: Let's get started now.
12 For those of you on the phone, the next session is
13 an update from the Methodology Committee. What we
14 are doing now is adding five minutes, so you have
15 until 4:05 as opposed to 4:00. You are stopping at
16 4:05 now instead of 4:00.

17 Robin Newhouse, who is the chair of our
18 Methodology Committee, will give us an update on
19 the Methodology Committee. I think Steve Goodman
20 has also just arrived, but is probably tired from
21 his trip. He is here as the vice-chair. Robin?

22 DR. NEWHOUSE: Thank you, Gray. We are

1 delighted to present an update to the Methodology
2 Committee's work since the last Board meeting. On
3 behalf of the Methodology Committee, I'm Robin
4 Newhouse, here with Steve Goodman, vice-chair, of
5 the Methodology Committee. I'd also like to note
6 that we have a couple of our Methodology Committee
7 members on the phone who will be recording a
8 portion of the update, and I'll introduce them in
9 just a minute.

10 Today what we will cover is an update on
11 some of the decision sciences work that we have
12 started, actually about a year and a half ago. We
13 will also talk about our major work in terms of
14 developing new methodology standards, those are
15 designs with clusters and complex interventions.

16 We will also update you on the revision of
17 our first standards that were first presented in
18 2012, and started their use in proposals in 2013.
19 It's hard to believe they are about three years old
20 and they have now all been revised with the help of
21 the PCORI staff. We will update you on that work
22 as well.

1 We will end by talking about some of the
2 methodology standards dissemination activities,
3 that is the continuing education and academic
4 curriculum.

5 That is what we will cover. At the end,
6 we will update on a couple of additional issues.
7 That is where I am going to ask for Sally Morton to
8 tell us a little bit about her work in the PCORnet
9 methods subgroup as well as some of the simulation
10 model subgroup work that she has led.

11 In terms of decision sciences, this
12 emerged actually a couple of years ago as an
13 interest to try to understand where PCORI should be
14 in terms of their space in decision sciences. A
15 subgroup of Methodology Committee members and PCORI
16 staff worked with the Research Triangle Institute
17 and held an expert workshop on June 4.

18 As a result of that work, they completed a
19 report and summarized the evidence. We have not
20 yet seen the report. It will be distributed among
21 the Methodology Committee and it will be posted
22 publicly, and the next steps are to come.

1 In terms of methodology standards, over
2 the past year, the Methodology Committee has worked
3 on two standards that were important to core
4 methods. Those were designs with clusters --

5 MS. HOLE-MARSHALL: Sorry, can I ask a
6 question about the previous slide?

7 DR. NEWHOUSE: Sure.

8 MS. HOLE-MARSHALL: Can you just give me
9 an example of decision sciences type, what the
10 report covers in terms of maybe just an example, is
11 it study methodology, it is application, or both?

12 DR. NEWHOUSE: Yes. In anticipation of
13 that question, I'm going to call Bill Lawrence
14 because he was involved, and actually Steve and I
15 have not yet seen the report. We had a brief
16 report from the Methodology Committee members that
17 the work was complete but not sort of the dense
18 findings and the recommendations to move forward.

19 DR. LAWRENCE: Hi, I'm Bill Lawrence with
20 the Communication Dissemination Research Program.
21 The meeting basically focused on decision
22 methodology primarily, so it was decision

1 psychology, behavioral economics, with a lot of
2 focus on choice architecture, and sort of the
3 ethics of decision-making, kind of the primary
4 areas involved. I'd be happy to go into detail if
5 you would like.

6 MS. HOLE-MARSHALL: Basically how people
7 make a decision, in particular in this case, about
8 a health care choice that might be in front of
9 them.

10 DR. LAWRENCE: Correct.

11 UNIDENTIFIED: Thank you.

12 DR. NEWHOUSE: Thanks, Leah. In terms of
13 the new methodology standards, the work for design
14 with clusters is complete, and the steps that we
15 went through to develop the design with clusters
16 standard included a conference back in June with
17 experts. They actually came to the conference, the
18 work shop, with some recommendations for standards
19 for design with clusters and to work with PCORI
20 staff, and the subgroup from the Methodology
21 Committee refined those recommendations.

22 The recommendations were then presented to

1 the Methodology Committee and modifications made,
2 and now they are ready to be reviewed and voted on
3 by the Methodology Committee. We have a face to
4 face meeting in October, October 29, at which time
5 we will be reviewing those recommended standards
6 and voting to have them ready to bring back to you
7 for your review for the December meeting before
8 they are publicly posted for comment.

9 MS. HOLE-MARSHALL: Robin, this one, what
10 will come to us is proposed standards to get public
11 input but then after that, at some point they would
12 be adopted as methodology standards. Is that the
13 intent?

14 DR. NEWHOUSE: Yes, they would be added as
15 another new methodology standard and will go
16 through the same process as we did when we
17 presented the first standards, it comes to you, it
18 goes out for public comment. We will incorporate
19 all public comments into the standards, and then
20 they will be endorsed, hopefully, by the Board, and
21 then will be used in proposals.

22 MS. HOLE-MARSHALL: As opposed to the

1 earlier one about decisions, that one is not moving
2 towards standards or until you get the
3 recommendations, you won't know?

4 DR. NEWHOUSE: That conversation about
5 decision sciences has been one that we have been
6 trying to move it from sort of the conceptual realm
7 to how do we operationally use that information and
8 what space is PCORI in. It really has taken a
9 couple of years to have that conversation and
10 resulting really in this workshop with the experts.

11 That is conceptual work as opposed to
12 these are actually work where we have done reviews,
13 deliberation, contacted experts, went through a
14 similar process as we did for the original set of
15 standards.

16 These two standards were selected because
17 this was an area where PCORI was doing a lot of
18 work, and the standards could be helpful.

19 MS. HOLE-MARSHALL: Okay. Thank you.

20 DR. LAWRENCE: I just want to add to that.
21 The decision sciences was meant to inform
22 potentially funding methods portfolio or project

1 portfolio, because a lot of funding was going into
2 decision aid. It isn't aimed towards standards.
3 It's aimed toward informing PCORI about its
4 activities in this area, which were already quite
5 substantial.

6 DR. NEWHOUSE: The next set of standards
7 are complex intervention. Brian, are you on the
8 line?

9 DR. MITTMAN: I am. Thanks for the
10 opportunity to present briefly from the West Coast.
11 The process for developing standards for complex
12 interventions, another set of new standards,
13 follows basically the same process with a little
14 bit of a twist.

15 First of all, examples of complex
16 interventions include multi-level interventions
17 that target health systems and health behaviors.
18 Examples include public health campaigns that
19 involves multiple components with multiple targeted
20 audiences, also quality improvement or
21 implementation strategies that involve multiple
22 components in an attempt to change health system

1 policies or staffing arrangements, clinician and
2 staff knowledge and attitudes, and other targets.

3 It is a different class of interventions.
4 There is incomplete consensus as to what we mean or
5 what is meant by "complex interventions." The
6 first part of our process is actually to define
7 complex interventions, to identify their key
8 distinguishing features, and also to make some
9 decisions about the scope of the standards, what
10 types of interventions we view as complex versus
11 simple, and which types of interventions and
12 research questions will be addressed by our
13 standards.

14 I won't take the time to convey details of
15 what we are reading and discussing other than to
16 say that this isn't a dichotomy, instead is a
17 continuum from simple to complex. Most
18 interventions have at least some elements of
19 complexity, and that has been part of the
20 complexity of this process.

21 Our next step after defining the scope and
22 what we mean by "complex interventions," is to work

1 through a process of determining and discussing the
2 key challenges in evaluating complex interventions.
3 What makes them different from drugs and devices
4 and other simple interventions that would warrant
5 different standards, dealing with issues of the
6 heterogeneity, variability and adaptability of
7 these kinds of interventions, as well as the
8 targeted individuals and audiences, organizations,
9 that are addressed by those interventions.

10 Once we understood the challenges, then we
11 moved into what is our standard process,
12 identifying existing guidance to standards from
13 published literature and from experts. Our first
14 opportunity to obtain input from experts is listed
15 on the slide, a half-day summit that is planned for
16 the tail end of the PCORI meeting next week that
17 will involve a set of individuals giving brief
18 presentations and splitting into small working
19 groups to identify challenges in the standards and
20 guidance.

21 There will also be another meeting in
22 December that is planned by Academy Health that we

1 will participate in.

2 That is in a nutshell where we are. We
3 are in the midst of a literature review, and again,
4 these upcoming meetings. Look forward to sharing
5 drafts of our work later on this year and into next
6 year.

7 DR. NEWHOUSE: Thank you, Brian. The last
8 topic related to standards review relates to our
9 review of the current standards that are in use.
10 Of the 11 categories, the Methodology Committee
11 with the help of the PCORI staff, has reviewed all
12 of the methodology standards, learning from what we
13 have learned internally from the funded PCORI
14 proposals, from the PCORI staff with the
15 Methodology Committee.

16 A Methodology Committee member was the
17 link to each one of the standards. They have all
18 been reviewed at least once on the Methodology
19 Committee calls. We have one more to complete.
20 Our plan is to review those changes for hopefully
21 approval on the 29th. We hope to have that last
22 standard ready as well.

1 MS. HOLE-MARSHALL: Robin, are these major
2 changes? Can you just give us a preview? Are they
3 substantially on track?

4 DR. NEWHOUSE: They are. I think that is
5 what I would say. Many of them were questions
6 about interpretation of words. It was really to
7 add clarity. Others were organization. Others
8 were some duplication between standards actually,
9 to try to reduce any confusion or redundancy.

10 There were a couple of areas that required
11 more deliberation, although at the end of the day,
12 I can't speak for the Committee right now, but I
13 think we have those revisions pretty ready to go
14 without a lot of controversy or dialogue.

15 We will begin our review and vote next
16 week to get ready for the 29th. Steve, wouldn't
17 you say most were not substantive, they were really
18 to add clarity based on what we have heard from the
19 field and what we have heard from those that have
20 applied to PCORI, or the people that have received
21 PCORI grants.

22 UNIDENTIFIED: Thanks, Robin. I just have

1 a quick question about process. They don't need to
2 have any further oversight, the MC approves?

3 DR. NEWHOUSE: We will actually bring them
4 back to you in December like we did before for your
5 review, before they are publicly posted. You will
6 approve public posting if you think they are ready.
7 After they are publicly posted, last time we
8 received over 1,000 comments, I don't know what
9 will happen this time but we will need some time to
10 review each one of those comments and make a
11 determination if changes need to be made.

12 We were very careful about those reviews.
13 Then we will bring them back to you. I have a hard
14 time estimating. I probably would under estimate
15 that things will go very well and we won't have a
16 lot of comments. By early next year, we should be
17 bringing you back those final standards.

18 DR. WEISMAN: Robin, this is Harlan. Do
19 you foresee after this review process goes through
20 that a new version of the methodology report will
21 be issued, standards will be issued in in total,
22 including designs using clusters? That is part

1 one.

2 Part two, since I know you are going to be
3 talking about dissemination efforts, are there any
4 changes in the current standards that would affect
5 the dissemination efforts of the current standards
6 in terms of training and curricula?

7 DR. NEWHOUSE: I would say no at this
8 point. Our goal was to provide some clarity in the
9 language that was used, so a lot of it is
10 definition and trying to make it much clearer for
11 people to use. I don't think it will impact the
12 training.

13 I do think the standards will be published
14 quickly after approved, number one, and
15 communicated. There will have to be some
16 communication about the new standard, designs with
17 clusters, but I don't think it will affect the
18 dissemination efforts for CE or the academic
19 curricula.

20 [Teleconference dropped for several
21 minutes due to a PCORI technical issue.]

22 DR. NEWHOUSE: Technology is our friend,

1 in most cases. Yes, like over and over again. So,
2 I think something that the Methodology Committee
3 realized very quickly when PCORnet formed where
4 there are many opportunities to partner with them
5 to identify areas where there were additional
6 methods, development. So she, Sally, stepped up
7 very quickly to identify areas around data quality
8 and missing data. So, she's been working with
9 PCORnet at this point with an agenda drafted for
10 meeting in December and data quality and missing
11 data and patient centered outcomes research using
12 EMR claims data.

13 So, this is one of those iterative kinds
14 of exercises between the MC and PCORnet. She and
15 Sebastian have been both leaders in that area to
16 try to identified additional areas where we can be
17 helpful.

18 So with that I'm thank you for your
19 attention and wonderful questions during the
20 presentation and also I would like to give credit
21 to the Methodology Committee members PCORI staff
22 members we work with. Thank you.

1 CHAIRMAN NORQUIST: Robin and Steve, by
2 the way thank you again for agreeing to serve as
3 the chair advisers -- you may not have known in
4 your transit you were put back in. Thank you for
5 agreeing. But anyway thanks so much to the
6 methodology committee and what you guys are doing
7 and what they're doing too. We really appreciate
8 it. I know it's a lot of hard work. All right.

9 [Applause.]

10 CHAIRMAN NORQUIST: So at this point we'll
11 move onto the next, unless Robin or Steve you had
12 anything else you wanted to say at this point.
13 Lori and Laura have now shown up. We were looking
14 for you earlier I think, but now we've got you. So
15 they're going to present an evaluation update --
16 results of the applicant -- Lori, are you going to
17 go first or Laura? Lori, okay.

18 DR. SELBY: And as they take their seats
19 and get ready, I just want to say again, that this
20 work really came out of the last board meeting
21 where members began noticing where we repeatedly
22 fell short of the funding -- being able to

1 recommend funding to the extent we had secured your
2 approval to fund. And Lori and Laura and
3 evaluation analysis team teamed with --
4 particularly with three subcommittees of the SOC
5 and you hear about the work from one of them today,
6 work goes on in other fronts but I really want to
7 thank them for their support of all of this work
8 and as I always say the data keep getting better
9 day by day. It always makes Lori cringe a little
10 bit but I remember a year-plus ago Harlan Krumholz
11 said something about, you know, you're a learning
12 organization you need to get a handle on your own
13 data. And I think we really have and it keeps
14 getting better.

15 [Off microphone discussion.]

16 MS. FRANK: -- applicants in the
17 applicant pool, but the first thing I'm going to do
18 is turn this over to Laura, the Associate Director
19 of Evaluation and Analysis and she can catch you up
20 on what's been happening since last she and Diane
21 Bild reported to you at the July board meeting.

22 MS. FORSYTHE: Thanks Lori. So in July we

1 gave you an introduction to the application
2 enhancement workgroup. Our workgroup is made up of
3 Rick Kuntz and Steve Lipstein and also Bob Zwolak
4 as well as some other PCORI staff members. From
5 Finance we have Hal Sox, we have other members from
6 our Evaluation team including Lauren Fayish and as
7 well as folks from our Engagement staff including
8 Suzanne Schrandt and we work with a lot of other
9 PCORI teams and departments.

10 And the group started developing a
11 theoretical framework, that there are theories of
12 necessary conditions for PCORI to receive excellent
13 CER applications. You can see those here, they are
14 important CER questions. That we have a pool of
15 well-trained researchers, that those researchers
16 perceive PCORI as a good fit for their work, and
17 that we have policies that facilitate submissions.

18 And so, with that framework in mind the
19 group has generated a number of hypotheses that
20 might explain barriers for receiving the highest
21 quality possible applications. And for each we
22 systematically consider the hypothesis, we review

1 pertinent evidence, and consider proposed process
2 improvement.

3 To-date we have presented you detailed
4 information on three hypotheses. If you will
5 recall at the July meeting we presented information
6 from a variety of sources to demonstrate that
7 applicants think the effort to apply is high
8 relative to the likely of award, that applicants
9 think timelines are compressed and that while
10 researchers embrace the concept of engagement that
11 they find our requirements to be challenging.

12 And so, the workgroup has reviewed a lot
13 of evidence on these ideas and made some
14 recommendations for improvements.

15 So outcomes of this work to-date include
16 that we are doing a very detailed review of our
17 entire application process. We're looking for
18 opportunities to reduce the burden on our
19 applicants, to streamline all of our processes and
20 to increase the clarity and the consistency of all
21 our messaging about our application requirements.
22 And we want to take this opportunity to thank those

1 applicants that have already given us some feedback
2 about our process. This includes through our
3 regular applicant survey, after every cycle, but
4 also some recent focus groups that we did with
5 applicants and their feedback gives us ideas for
6 our process improvements and also informs our
7 strategy for this more detailed review.

8 The next thing that we've done is already
9 extend the preparation time for applicants by
10 introducing the concept of pre-award announcement.
11 When topics are approved by the Board, like today,
12 we want to start getting out as soon as possible as
13 much information about the coming opportunity ahead
14 of the formal PSA. And this is so that
15 investigators can start thinking through their
16 ideas and getting together the right teams so that
17 they are ready to go when the PFA is put out.
18 We're also considering other possible changes so
19 that we can continue to increase the preparation
20 time.

21 PCORI is also developing some ways to
22 shift responsibility for some elements of

1 engagement; particularly ahead of the awards being
2 made during the application process from the
3 applicants to PCORI. And we're doing things like
4 enhancing the engagement rubric and other resources
5 about engagement.

6 MS. FRANK: Thanks Laura. So today we
7 have three questions we want to address. The first
8 begins with the description of the PCORI applicant
9 pool. We're asking the question, do funded
10 applicants differ from unfunded applicants along
11 these dimensions in terms of their training, their
12 years of research experience, and in terms of their
13 history of interaction with PCORI.

14 The second question is whether there is a
15 poll of well-qualified CER researchers out there
16 who are not applying to PCORI and if so, why aren't
17 they applying?

18 And the third question is about what
19 proportion of health services and outcomes
20 researchers might have experience with CER and/or
21 pragmatic studies. So part of this is looking for
22 the potential applicant pool for PCORI and what can

1 we learn from that in terms of increasing the size
2 of the PCORI applicant pool.

3 So as you know we're collecting a lot of
4 information around PCORI to be a learning
5 organization and that the information that will
6 bring to bear on today's questions are highlighted
7 with those top three bullet points. We've
8 conducted an analysis of applicant characteristics.
9 We've conducted some literature searches with the
10 focus of CER researchers to understand the
11 potential applicant pool and we'll also share some
12 data out of the researchers survey from our
13 stakeholder survey work that you've heard some of.

14 And let's turn to the findings then. So
15 addressing this first question. Do funded
16 applicants differ from unfunded applicants along
17 any of these dimensions and if so, what can we
18 learn in terms of the PCORI application process
19 about that?

20 So first I'd like to say that nearly every
21 PI applicant PCORI has some form of doctoral degree
22 and there are no differences by whether they are a

1 funded applicant, that's the awardee column there,
2 or an unfunded applicant. There aren't any
3 differences either by their proportions that have
4 some form of a clinical degree. A little over half
5 of all PCORI applicants have a clinical degree.

6 Where we do see differences is in terms of
7 prior funding. So NIH funding, the majority of
8 PCORI applicants have had NIH funding, but you can
9 see proportionally more of the funded applicants
10 relative to the unfunded applicants had NIH funding
11 and proportionately more funding applicants than
12 unfunded applicants had AHRQ funding, but fewer
13 than half of all applicants.

14 We also asked about prior PCORI funding.
15 PCORI funding is relatively new compared to these
16 other institutions and there may be a little signal
17 there, but those numbers are quite small.

18 Here we're showing funded versus unfunded
19 applicants with funded applicants shown on the blue
20 bars and unfunded applicants on the red bars. So
21 here we ask them about their prior grant history in
22 terms of prior grants. So looking for whether

1 there are differences by funding status, one way to
2 break this up is to look at those left two sets of
3 bars. So five or fewer grants.

4 The funded applicants, there were 32
5 percent in the five or fewer grant category. For
6 the unfunded applicants it's 45 percent. Those
7 proportions switch when you look at the upper two
8 categories, I'm sorry, upper three. So if it's 11
9 or more prior grants.

10 This was any grant history, right. So the
11 bottom shows you the end and information about our
12 sample. So this really is just from the broad
13 proposals for the funding cycles from August 2013
14 through Fall 2014.

15 So, those numbers flip on the upper end.
16 So it's 42 percent with 11 or more grants are the
17 funded awardees to PCORI versus 31 percent of
18 unfunded. We are really glad to see individuals
19 with no prior grant experience applying to PCORI.

20 We also asked about this size of the prior
21 grant. So here you can see we have funded
22 applicants in blue and unfunded in red. There's a

1 trend for funded applicants to have had larger
2 prior grants than unfunded applicants.

3 A point I'd like to make here, too, is we
4 had a lot of questions about very experienced
5 researchers. So those all of the way to the right
6 they're those who had a prior grant of \$10 million
7 or more. We looked at the set who also had 21 or
8 more grants. So this is a very experienced set.
9 Because one of the hypothesis was that perhaps
10 these folks are the unfunded among them are doing
11 very well on technical merit but not doing as well
12 on PCORI unique criteria like patient-centeredness
13 and patient-engagement, but in fact data don't
14 support that hypothesis. The profile of merit
15 review scores for that very experienced set of
16 researchers is similar to that for any unfunded
17 applicant.

18 Another question we had was how
19 experienced are PCORI applicants? So you can see
20 the majority have 10 or more years of research
21 experience, no differences between the funded and
22 the unfunded applicants here.

1 Once again, I want to say we are pleased
2 to see relatively junior investigators applying to
3 PCORI and with some success.

4 And then here, finally, to address this
5 one question we had asked applicants about their
6 prior experience interacting with PCORI. So we
7 divided their prior experience into high intensity,
8 medium intensity, and low intensity. High
9 intensity prior experience means things like
10 serving as a merit reviewer or participating at an
11 in-person PCORI meeting or interacting with a PCORI
12 staff member. Low intensity are much more passive
13 forms of interaction like receiving notices from
14 our listserv or going to our website. That medium
15 level then is somewhere in-between, so accessing
16 PCORI materials online like training.

17 And so, you can see that a higher
18 proportion of the funded applicants had high
19 intensity prior interaction with PCORI than
20 unfunded applicants.

21 So, from this data we concluded that PCORI
22 applicants are generally experienced researchers

1 with demonstrated success at other funders.
2 Training doesn't differ between funded and unfunded
3 applicants, but more funded PCORI applicants than
4 unfunded applicants do have a history of funding
5 from NIH or AHRQ. And about 70 percent of funded
6 applicants reported high levels of interaction with
7 PCORI, only about half of unfunded applicants
8 reported this high intensity interaction with
9 PCORI.

10 So, let's turn to the second
11 questionnaire. Is there a pool of well-qualified --

12 CHAIRMAN NORQUIST: Wait, wait. Let's
13 just see if there are any questions --

14 MS. FRANK: Sure. On that set.

15 CHAIRMAN NORQUIST: Let's go to that one
16 if anybody wants to -- yeah, Rick Kronick.

17 MR. KRONICK: Yeah, would you go back one
18 slide please. You know, as I saw your results
19 which I think are very interesting and useful. I'm
20 not sure I come to quite the same conclusion as
21 your first bullet. It's certainly experienced and
22 successful researchers are more likely to be

1 successful with PCORI than less experienced folks
2 and that kind of makes sense for all kinds of
3 reasons.

4 But it also seems like you had quite a few
5 folks who are no so experienced. I mean, at least
6 30 to 40 percent through what you count there.

7 MS. FRANK: Yeah, so on this first bullet
8 we're limiting it to a description of applicants
9 generally without getting into who was successful.
10 So you're absolutely right with regard to
11 application success. But one of the first
12 questions we had was to what extent is PCORI
13 attracting seasoned researchers?

14 MR. KRONICK: It seems like seasoned
15 researchers are applying as are somewhat junior
16 folks as well.

17 UNIDENTIFIED: [Off microphone.]

18 CHAIRMAN NORQUIST: Yeah. Alicia.

19 DR. FERNANDEZ: I found this really
20 interesting and I have two questions. One is if
21 you've had a chance to look at generalists versus
22 specialists for the clinical degreed researchers.

1 And the other one had to do with -- I was very
2 surprised with the large number of people and I
3 wanted to make sure I understood it correctly who
4 don't have a clinical degree. Meaning they are
5 PhDs for example, a PhD epidemiologist or
6 something.

7 MS. FRANK: Exactly.

8 DR. FERNANDEZ: And I was wondering
9 whether you had looked to see if that's all being -
10 - you may not have had a chance to delve deeper
11 into that, but if you could say anything more about
12 that that would be interesting.

13 MS. FRANK: Sure. So first I'll say we
14 take requests, so we are very interested in hearing
15 your questions. As Joe mentioned we're
16 accumulating more and more data. We have a lot
17 more from which we can ask questions. In this case
18 we have not yet looked by specialist versus
19 generalist, but you're absolutely right that a
20 little less than half of PCORI applicants have a
21 doctoral degree in something other than a clinical
22 field.

1 CHAIRMAN NORQUIST: Steve Goodman.

2 DR. GOODMAN: How likely in particular
3 unfunded applicants are to reapply? Not the same
4 applications that apply again in the future.

5 MS. FRANK: So we're looking at
6 resubmission data now. We don't have don't have
7 those to share fully yet. We do have, as you know
8 our applicant survey we ask after each round, so
9 the question is do we ask them specifically about
10 whether they intend to reapply and I'm looking to
11 Laura who would have the answer.

12 MS. FORSYTHE: I believe we do ask them
13 how likely they are to apply again in the future
14 and that's something we can report back to on. And
15 in addition to our analyses looking at what
16 proportion of applications come back to us as a
17 resubmission, we're also looking at more detail in
18 terms of what portion of applicants come back to us
19 with something else. Whether it be an LOI or full
20 application, to understand the full trajectory
21 particularly now that we have a competitive LOI
22 process to figure out who is coming to us with how

1 many submissions and how successful they are over
2 time.

3 DR. GOODMAN: I guess what I'm trying to
4 get at and I'll be very interested to see those
5 data, is one of the ways people choose where to
6 submit their funding is basically through word of
7 mouth, recommendation on the street by fellow
8 researchers and if there is the word out that --
9 it's just like journals as well, that PCORI is
10 thought unfair, capricious or generous, quick and
11 helpful, you know that's just not the perception
12 that's held by a particular researcher but could
13 spread to their entire division or team or
14 institution.

15 So, the more you can get a handle on that
16 and I don't know to what extent you have, the
17 better, because it is that reputation on the street
18 that profoundly affects where people will send
19 their first application to.

20 MS. FRANK: Okay, terrific. I'm wondering
21 if there are any other questions because that would
22 be a great segue.

1 CHAIRMAN NORQUIST: So, questions?

2 MS. GOERTZ: Can you -- sorry I missed it.
3 Is this a survey data or are you pulling this from
4 their applications?

5 MS. FRANK: So we ask the applicants to
6 self-report on a number of different pieces of
7 information about themselves, so that's where we're
8 pulling these data.

9 MS. GOERTZ: As part of the application
10 process?

11 MS. FRANK: Yes.

12 MS. GOERTZ: Do you have information on
13 how long it's been since they graduated with either
14 their clinical degree or their PhD?

15 MS. FRANK: We do have information on
16 seniority that way, not for all cycles. So we'll
17 put that on our list to get back to you on. Is
18 there a hypothesis specifically on --

19 MS. GOERTZ: Well, I'm just curious about
20 whether people that are successful tend to be
21 people that have been -- you know, in the field for
22 a really long time or more people who are really

1 just getting started in their careers. You can
2 draw some conclusions form how many grants they've
3 gotten, et cetera, I think but not necessarily
4 answer that question directly.

5 MS. FRANK: Yes, so we did ask them about
6 their self-reported number of years of research
7 experience and that's where we saw the vast
8 majority -- about 75 percent of applicants had
9 reported 10 or more years of research experience
10 specifically.

11 MS. GOERTZ: Thanks.

12 CHAIRMAN NORQUIST: So on your self-report
13 survey, is that a 100 percent response?

14 MS. FORSYTHE: Right. It's questions
15 applicants answer at the time of submitting their
16 application.

17 CHAIRMAN NORQUIST: So it's 100 percent.

18 MS. FORSYTHE: It's part of the
19 application process.

20 CHAIRMAN NORQUIST: Okay. All right. So
21 your second point.

22 MS. FRANK: Okay, so to Steve's point.

1 Yeah, we're all very interested in knowing what's
2 the word out there about PCORI as a potential
3 funder. Absolutely.

4 And so, one of the ways we're addressing
5 that question is here. We're wondering what's the
6 potential applicant pool, who is applying? If
7 there are people who aren't applying, why aren't
8 they? Is it because they're not aware of PCORI?
9 Or have they heard about PCORI and they choose not
10 to apply to PCORI for funding? We really want to
11 know the answer to these questions.

12 So there's a couple of different ways
13 we're going about answering this. I'm going to
14 show you some information out of some literature
15 searches. This work is led by Michele Orza with
16 assistance from Lauri Davidson, our Medical
17 Librarian, Nick Wilson and many, many others.

18 So here is one search. It's a year's
19 worth of published literature, April 2014 to April
20 2015. Looking for CER as identified by the authors
21 or by National Library of Medicine indexers, and
22 you can see our search terms there. We're really

1 looking for CER. We also had search terms in there
2 for study design and this was because we were
3 looking for empirical studies. We didn't want
4 articles about CER; limited to the English
5 language.

6 So the yield for this was 216 articles.
7 We were interested to see how many were conducted
8 outside the U.S., we set those aside for now and
9 wanted to focus on the remaining 136 that were
10 conducted in the U.S.

11 Of those, how many of those authors are
12 connected to PCORI in some way. And so, the short
13 answer is 55 percent have some connection to PCORI.
14 So, the connection is about 30 percent of them
15 actually have PCORI funding, another 55 percent
16 have applied for PCORI funding.

17 Another way the team has gone about
18 answering this question is to do a more focused
19 search. So here the focus is on CER trials
20 specifically. Looking at these five top journals.
21 Looking at less time, so not a full year's worth.

22 DR. SELBY: Lori just emphasize that the

1 search strategy here was different. So this is not
2 a subset of the earlier presentation.

3 MS. FRANK: That's right.

4 DR. SELBY: If you could say anything
5 about search strategy at this time.

6 MS. FRANK: Yeah, so here the goal was to
7 collect information on published authors who had
8 clearly labeled their work as CER. So this was a
9 completely different effort than that first search.
10 In the background, this team has been running
11 multiple other literature searches. So we're just
12 showing you some of the ways in which we were
13 =trying to identify the pool of potential PCORI
14 applicants and understand first of all, PCORI's
15 reach with that potential applicant pool. But
16 then, we're following up with the folks.

17 DR. SELBY: One point. This is a group
18 that may not even quite appreciate sometimes that
19 they're doing CER because they didn't have say the
20 word CER to get into the sample. Because they said
21 versus, that was actually one of the better traps.

22 MS. FRANK: Right. So most of these

1 studies, in fact, Michele has found aren't clearly
2 labeled as CER as Joe said.

3 So this search yielded 141 discreet
4 studies and even higher proportion of those were
5 conducted outside of the U.S. So again, we were
6 just focusing for now on U.S.-based studies; a very
7 high proportion are connected to PCORI in some way.
8 This includes, for this, it's actually the first,
9 second, third more senior author.

10 So that note there, we're collecting
11 feedback from a subset of these. So we reached out
12 then to that minority who aren't connected to PCORI
13 in some way and sent them an e-mail saying we would
14 love to follow up with you. We would love to hear
15 from you. And so far we've been on the phone with
16 about 10 of these researchers who've taken us up on
17 the offer to speak with them by phone and we've
18 collected a lot of other feedback via e-mail.

19 And so, very preliminary themes sort of
20 haven't emerged from those conversations, but I can
21 show you on the top left there is something that we
22 hear from other corners as well that there's an

1 opportunity cost in switching set, essentially,
2 from a known funder to a new funder. In the upper
3 right is a set of themes -- this is representative
4 of the set of themes we hear about people preparing
5 to apply to PCORI for funding. They say, "I know
6 you're out there. I want to apply. I think my
7 research is getting ready, but it's not quite there
8 yet and I'm working towards the PCORI application."
9 So that's a different group.

10 The bottom two quotes are similar themes
11 coming from researchers who are a bit stymied about
12 how to engage research partners in observational
13 studies or secondary data analyses and even lack of
14 clarity about whether PCORI will fund secondary
15 data analyses.

16 So conclusions on this line of inquiries.
17 We've found that PCORI is in fact reaching a high
18 proportion of U.S.-based CER researchers.
19 Certainly there is more work we will do in terms of
20 outreach to this potential applicant pool to make
21 sure we clarify PCORI's funding requirements.

22 As a result of this, we actually added a

1 question then to the survey that we give to our
2 merit reviewers after each round of merit review.
3 We ask if you have applied to PCORI and if not, why
4 not? And we hope to report back to you on that
5 fairly soon.

6 So now I'll turn it over to Laura.

7 CHAIRMAN NORQUIST: Wait. Let's see if
8 there are any questions about this.

9 DR. GOODMAN: Just one really quick
10 question. I'm interested you didn't search for the
11 term patient-centered outcomes research. Why?
12 Maybe that's clearly not a standard, but did you
13 include it at all?

14 MS. FRANK: So, Michele could probably
15 speak to this better than I can and you're welcome
16 to reply Michele, but the first question was among
17 published CER researchers, what do they know about
18 PCORI and why aren't they applying? Because we are
19 looking for people with strong CER expertise
20 primarily. Do you want to add to that Michele?

21 MS. ORZA: [Off microphone.]

22 CHAIRMAN NORQUIST: We can't hear you

1 unless you speak into the microphone. The people
2 on the phone can't hear you.

3 MS. ORZA: So we've been experimenting
4 with a couple of dozen different kinds of search
5 strategies to see what gets us what we want. And
6 we are working on trying to identify PCOR
7 specifically, but we are not able to show you that
8 today.

9 DR. GOODMAN: This is great work, this is
10 really interesting. I'm shocked how high some of
11 those numbers are. Especially so recently. I
12 thought you were going to find it was low because
13 these were applications on work that started many
14 years before, so really, really very interesting.

15 DR. SELBY: You're surprised at what a
16 high proportion are connected to PCORI?

17 DR. GOODMAN: Yeah.

18 CHAIRMAN NORQUIST: But then the issue --
19 it is surprising, but are we funding the same --
20 where are the new people? But anyways.

21 UNIDENTIFIED: I'm also surprised how
22 small the denominator number is. I expected that

1 to be bigger.

2 CHAIRMAN NORQUIST: Yeah.

3 MS. GOERTZ: I wonder if there is some
4 value also looking at the people who weren't first,
5 second, third or senior authors because those folks
6 in the middle, I think, would be really one of the
7 audiences I would be interested in targeting.

8 CHAIRMAN NORQUIST: You're pointing at
9 somebody?

10 MS. ORZA: Sorry. So in the first set we
11 looked at the first and last author of every study
12 and the second set we looked at the first, second,
13 third, and last and we're trying to identify
14 specifically the PI and following up with them.

15 MS. FRANK: But to your point, absolutely.
16 If we're looking for the potential market of PCORI
17 applicants, there it is in the whole author set.
18 We agree. So we'll get back to you on that.

19 CHAIRMAN NORQUIST: Okay, so number 3.

20 MS. FORSYTHE: Okay, so our third set of
21 questions are what proportion of health services
22 and outcomes researchers have experience with CER

1 and with pragmatic studies and what proportion
2 could be PCORI applicants and what should be done
3 to increase that.

4 So to answer those questions we turn again
5 to our PCORI survey of researchers. You first
6 heard about this effort in more detail at the
7 January board meeting and we fielded this survey in
8 late 2014 to clinical, health services, and health
9 outcomes researchers that we invited via 23
10 professional organizations as well as the PCORI
11 mailing list. We heard back from 508 researchers.
12 They told us they were pretty familiar with PCORI.
13 In fact, 59 percent of them had applied to PCORI
14 and 43 percent of those had received PCORI funding.

15 So it's really important to note that this
16 is a PCORI savvy group and that has some important
17 implications for our interpretation of our
18 findings, particularly related to experience
19 conducting CER.

20 So of those researchers, two-thirds
21 indicated that they had conducted CER before and of
22 those, three-quarters, said they had done

1 observational studies. About two-thirds said they
2 had done secondary data analyses. Just over half
3 said they had done randomized trials. And just
4 over a quarter said they have done pragmatic
5 studies.

6 And that information is relevant for PCORI
7 as we think about what kind of studies we want to
8 fund going forward, particularly large pragmatic
9 studies.

10 And we asked this question in part to try
11 to better understand the array of CER research
12 interests and to consider what kinds of work people
13 are doing, because some are relevant to the kinds
14 of CER that PCORI funds and some of them are not.

15 So in conclusion among these researchers
16 we heard from health services and health outcomes
17 researchers that they have more commonly conducted
18 observational studies and secondary data analyses.
19 And they have used other methods; about half said
20 they've done randomized trials and about a quarter
21 reported experience with pragmatic trials.

22 Also, I want to remind you that at our

1 July meeting we talked about how researchers have
2 told us that they like the idea of engagement but
3 they find that challenging. And with that in mind,
4 that may further narrow the pool of CER
5 researchers, particularly that are prepared to do
6 patient-centered CER with engaged approaches to
7 doing that work. And so, that may present some
8 opportunities for PCORI to increase our support,
9 our training, and our outreach to potential CER
10 researchers.

11 MS. FRANK: Okay, so any questions on what
12 Laura just presented?

13 CHAIRMAN NORQUIST: Questions about that?
14 Christine.

15 MS. GOERTZ: Thank you. Do you have any
16 idea at all what the denominator is for that
17 because it seems to me that who is going to respond
18 are those people that have an interest or know
19 about PCORI, so I'm just wondering if we have any
20 sense of what the denominator is.

21 MS. FRANK: So for that we don't. We have
22 a ballpark sense because we know what organizations

1 we went to and what their membership size was. but
2 yes, the folks who responded to that survey are
3 those health services researchers who are obviously
4 very PCORI savvy.

5 MS. GOERTZ: What is the ballpark? Are we
6 talking thousands?

7 MS. FRANK: Thousands, yes.

8 MS. GOERTZ: Okay.

9 CHAIRMAN NORQUIST: Okay.

10 MS. FRANK: Okay, so from all of these
11 lines of evidence then we have some conclusions.
12 The pool of health researchers who are successful
13 with other funders is large but as Laura said, that
14 narrows when you're looking at that set of
15 researchers who can conduct randomized trials
16 and/or large pragmatic studies. And we were
17 interested to see differences between funded and
18 unfunded applicants in terms of their prior
19 interaction with PCORI. There's potential
20 opportunity there for outreach and continued
21 interaction with potential applicants.

22 And one way we think PCORI can expand the

1 pool of eligible researchers who can be successful
2 applying to PCORI is to not only continue with the
3 outreach and informing the research community about
4 PCORI's application requirements and the
5 opportunity that it offers, but also as Laura said
6 to support the community to become more capable in
7 patient-centered research and engaged research.

8 So, we started with some action items from
9 the last time. As we accumulate evidence, we turn
10 it into action as much as possible. So we're using
11 input from prior applicants to improve the process.
12 We're undertaking an analysis of resubmissions and
13 look forward to reporting to you on that. We are
14 tracking the proportion of CER researchers who are
15 applying to PCORI to monitor ongoing outreach
16 efforts and we do intend to continue to ask those
17 who are not applying, who we think are in the
18 potential PCORI applicant pool, why not?

19 And then, on that last point there, the
20 merit review. We think that we're interested in
21 understanding more about the relative strengths and
22 weaknesses of the critiques for funded and unfunded

1 applications. There's something there that we can
2 learn in terms of guiding applicants and there's
3 something there in terms of improving our own
4 internal processes.

5 We welcome any other questions.

6 CHAIRMAN NORQUIST: Any other questions,
7 recommendation to them? Rick.

8 DR. KRONICK: This is really useful. A
9 couple of other potential pools of folks to look at
10 might be former AHRQ grantees when we used to fund
11 comparative clinical effectiveness research.

12 My suspicion is a very, very high
13 proportion of those people are involved with PCORI,
14 but then a second pool with maybe a lower
15 penetration rate from PCORI would be folks who are
16 NIH grantees who are doing CER. And again, I know
17 you've been reviewing the published literature,
18 which certainly makes sense, you know, and is
19 probably the best approach but if you're also
20 trying to see what does that pool look like there
21 are probably some folks who are relatively new
22 researchers who've gotten grants from NIH in CER

1 that would have yet to show up. And I can imagine,
2 may be fewer of them have experience with PCORI and
3 they might be a group to go after.

4 MS. FRANK: That's a great suggestion.
5 Thank you.

6 CHAIRMAN NORQUIST: Yeah, I know, for
7 example, some of the institutes have funded
8 traditionally more CER like the National Institute
9 of Mental Health, and as they started to shut that
10 down I've watched those people, they've come over
11 here or tried.

12 Alicia.

13 DR. FERNANDEZ: That was really
14 interesting. This may be premature, but I was
15 wondering if you or perhaps Joe or Rick could tell
16 us a little bit about does PCORI have any thoughts
17 about training opportunities for young researchers
18 in CER and any -- I don't know what discussions
19 have gone on about that and to what extent they're
20 relevant to bring up at this point and certainly
21 how that would differ from AHRQ.

22 CHAIRMAN NORQUIST: You know, that's a

1 good point. Let's see what Rick --

2 DR. KRONICK: Do AHRQ has awarded a series
3 of institutional training grants and a variety of
4 other K awards in training. We're also working on
5 -- and in conversation with Joe and PCORI folks --
6 on trying to figure out what are the training
7 needs, particularly for learning health systems.
8 So a little bit different than, I think, the folks
9 that Lori is focusing on here.

10 So the awards that we have made are very
11 much with the goal of providing support and
12 training researchers who would be applying to PCORI
13 for money. We are, as I said, working on trying to
14 figure out what are the training needs for
15 researchers who are going to be working in health
16 care systems and those are, I think, different --
17 that's a work still in progress.

18 DR. SELBY: And I'll just add, this topic
19 is under active consideration by the RTC and you'll
20 be -- I suspect, hearing a report from the RTC is
21 two to three months. but we've had Bob Kaplan from
22 AHRQ join the meeting. We're pretty impressed with

1 the portfolio of training opportunities that AHRQ
2 already has in place and the number of awards and
3 funding levels.

4 But originally coming out of the meeting
5 we held with PCORnet systems leaders a year ago at
6 the IOM, this notion of training people who really
7 would be embedded in health care delivery system,
8 to ask and answer questions with the researcher's
9 rigor on a timeline and with the outcomes in mind
10 that mattered to systems is an area that nobody's
11 really ever funded. We talk learning health
12 system, but we don't talk about preparing a
13 workforce for it.

14 So that's a strong mutual interest. I'd
15 say the RTC and I don't know if Freda is still on
16 the line, but it's --

17 DR. LEWIS-HALL: I'm here.

18 DR. SELBY: Freda, if you want to add
19 anything go right ahead.

20 DR. LEWIS-HALL: Nope, you're rocking and
21 rolling.

22 DR. FERNANDEZ: Can I make a comment then?

1 CHAIRMAN NORQUIST: Yes.

2 DR. FERNANDEZ: Freda, I think it would be
3 in maybe our all-over list, but I think it would be
4 really interesting when you all come forward to
5 have a broader discussion. I would be very
6 interested whether you considered different forms
7 of grant mechanisms within PCORI more similar to
8 R21s or smaller mechanisms that would let people
9 get their feet wet in comparative effectiveness
10 research, particularly in patient-centered research
11 in that sense, before they're ready for something
12 that would be in our broad -- in other words to
13 think of PCORI's role beyond funding or helping to
14 fund traditional training programs, but also how we
15 might change our portfolio to bring forth a more --
16 to help train young researchers.

17 DR. SELBY: I think that's a great
18 suggestion. I really do think these data are very
19 interesting. Somehow I think I still have this
20 pretty strong conviction there's a group of people
21 who we will call clinical researchers out there.
22 Some of them were in the 35 to 45 percent who

1 hadn't every heard of PCORI, but people who were
2 just not yet ready to move from a sort of an
3 explanatory clinical trial to a more pragmatic
4 clinical trial. Those programs that would be toe-
5 dipping exercises for them would be a good idea.

6 DR. LEWIS-HALL: I also think there's an
7 opportunity for us to leverage people from -- if
8 you would, from the other end. People who are not
9 clinical researchers. I'm doing air quotation
10 marks -- "per se," but who have a keen clinical
11 interest in some very important questions and could
12 be brought into the fold with a new perspective if
13 we gave them exposure to this new way of getting
14 research done.

15 I think we can do it from all angles,
16 beginning to draw people in from various places in
17 the clinical/investigator ecosystem to become a
18 part of this and that's why I think that training
19 programs that are atypical in many ways are an
20 important consideration and toe-dipping is a really
21 important part of that.

22 DR. SELBY: I failed to mention too,

1 Harlan Weisman, who I think is on the call is
2 actually leading that work, so Harlan if you're
3 still on -- for the RTC, if you're still on please
4 jump in.

5 DR. WEISMAN: Thank you Joe and I am still
6 on. I don't think I have anything to add to what
7 you said. I'm really excited about the possibility
8 of working with AHRQ on addressing, you know, this
9 training need and then presenting to the Board as
10 we start fleshing out the details of what it might
11 look like.

12 CHAIRMAN NORQUIST: So we'll let Bob
13 Zwolak -- you get the last comment.

14 DR. ZWOLAK: Thanks very much. I wanted
15 to, as the chair of this workgroup on behalf of
16 Rick and Steve Lipstein, I wanted to thank Laura
17 and Lori and Michele for these superb analyses. I
18 was struck by a number of things.

19 I was very much struck by the penetration
20 of PCORI research among established investigators.
21 I was struck by this seemingly low number of
22 investigators who actually are skilled or admit

1 skill and performance of RTCs in advanced pragmatic
2 trials and certainly the opportunity for education
3 has been well-addressed here.

4 We started out trying to figure why there
5 was a relatively low number of high quality
6 applications and how we could enhance it, and I do
7 think we've made some substantial progress. So
8 thanks very much for your help.

9 CHAIRMAN NORQUIST: Yes, thank you both.
10 So as Rachael Fleurence and Joe, you're up now too.
11 The last session before our public comment is on
12 the PCORnet Phase II, so Freda we need you to stay
13 on too. Rachael, come up to the front here.

14 DR. SELBY: I think Rachael is going to
15 make the presentation. I'm going to be here for
16 questions.

17 CHAIRMAN NORQUIST: Okay.

18 DR. SELBY: She will do her usual
19 competent job.

20 DR. FLEURENCE: Good afternoon. I am
21 going to do the PCORnet Phase II presentation
22 update. We have a lot of different work streams

1 from PCORnet right now, so I'm going to try to sort
2 of wrap it all together nicely for you, but there
3 are a lot of sort of disparate work streams that
4 I'm going to be presenting.

5 Phase II networks are on board, so I'm
6 going to give you a little bit of information about
7 who they are. I'm going to talk to you about the
8 PCORnet demonstration projects and initiatives, a
9 little update on the PCORnet common data model,
10 which is the data model that allows us to do a lot
11 of the analysis ready work. I'm going to talk to
12 you about progress from PCORnet governance, and the
13 new governance structure that was approved at the
14 end of August by the PCORnet Council.

15 I will give you a brief update on the
16 PCORnet business plan which had been a request from
17 the Board back in February and we now have some
18 draft recommendations to share with you.

19 Then we have some time for discussion.

20 Starting off with a few words about the
21 Phase II networks, on July 21, the Board of
22 Governors approved the Phase II networks. We now

1 have a total of 33 networks including both CDRNs
2 and PPRNs. There are 6 new networks within that
3 number, four are PPRNs. I'm going to go through
4 them very briefly for you.

5 The first new CDRN is called LHSnet. It
6 is based out of Mayo Clinic, although it does cover
7 10 million patients across the country, and most
8 interestingly I think for PCORnet, it has three
9 million patients with linked claims and claims in
10 the HR data.

11 The second CDRN is OneFlorida. It is run
12 out of the University of Florida. It also covers
13 10 million patients across the State of Florida and
14 also has a lot of integrated claims in the HR data
15 already conducted.

16 On the PPRN front, we have an Interactive
17 Autism Network led by a patient care giver, Jessica
18 Law, also connected with Johns Hopkins. We have a
19 PRIDENet PPRN, this is a disease diagnostic PPRN
20 that is concentrated on sexual and gender
21 minorities.

22 We have an Alzheimer's and Dementia

1 Patient and Caregiver Network, out of Mayo Clinic,
2 and co-led by a caregiver. Our fourth new PPRN is
3 a Community and Patient-Partnered Participatory
4 Research Network (CPPRN). This is focused on
5 behavioral health in under resourced communities.

6 That is sort of the broad overview of our
7 new networks and as we slip into Phase II, we are
8 right in the middle of contracting right now, and
9 are looking at a fairly seamless transition from
10 Phase I to Phase II, which will be three years.

11 A few words now about the demonstration
12 projects. First, our clinical trial, ADAPTABLE,
13 which compares two different dosages of aspirin.
14 This is the first pragmatic clinical trial for
15 PCORnet. The protocol has gone through a number of
16 reviews with our CTAP Subcommittee as required by
17 the PCORI process. Recruitment is scheduled to
18 begin in January 2016.

19 The second set of demonstration projects
20 are the observational studies around obesity. They
21 were both approved in August by the Board. One is
22 on CER of bariatric surgery and the second one is

1 on looking at alternative antibiotic regimens in a
2 pediatric population. Again, the CTAP Subcommittee
3 is providing recommendations around these protocols
4 as we finalize these and move to contracting.

5 The PPRNs, you will recall, also have some
6 demonstration projects. The first set are well
7 underway. We have letters of intent that were
8 received and approved and full applications are due
9 actually on October 14, so in two weeks. A little
10 further down the pipe is the cross-PPRN
11 demonstration project, and its release is
12 anticipated for the next month, so fall of 2015.

13 A few words about the Natural Experiments
14 Network. This is a collaboration between PCORI,
15 the CDC, and NIH. PCORI will be funding up to
16 three projects under this research network. It is
17 focused on diabetes. The CDC and NIH have made
18 their decisions about their set of fundees. Two of
19 them are CDRNs, so we are excited to be able to
20 announce that today, and PCORI will now be
21 reviewing additional applications in order to fund
22 up to three of these networks under this Natural

1 Experiments Network.

2 The Health Systems Demonstration Projects,
3 building on our prior work where we engaged with
4 the IOM. We have provided supplemental funding to
5 all the CDRNs to work with their health system
6 leaders. Over the next few months, the CDRNs will
7 be working with these leaders, to engage with them
8 to discuss potential topics, and in January, the
9 National Academy of Medicine will host a follow up
10 meeting with the CDRN leaders. We will then award
11 up to five one year studies through a limited
12 competition and we expect that to be posted in the
13 spring of 2016.

14 Another critical initiative that will be
15 coming out of PCORnet is a collaboration with
16 health plans. I talked before with the Board about
17 how critical it is to have these relationships in
18 place with the health plans in order to link the
19 CDRN and HR data with claims data. We expect to
20 fund up to two major U.S. health plans in this
21 area, and the PFA is scheduled to come out within
22 the next month, very close to being finalized. We

1 hope to get that work underway very soon.

2 Moving on to sort of after the
3 demonstration projects, just a quick update. We
4 wanted to show you where the common data model of
5 PCORnet is right now. You don't need to read all
6 of these tables.

7 The main point that I wanted to make for
8 today is we are on Version 3.0, so within 18
9 months, I think we are fairly happy with the
10 progress there. Common Data Model 3.0 is also
11 built so it can respond to the clinical trial needs
12 of ADAPTABLE, so we will be using the Common Data
13 Model for the clinical trials.

14 Currently, there is about 62 million
15 patients who have data transformed into the Common
16 Data Model of PCORnet. There is still quite a bit
17 of work to do around quality and longitudinality of
18 the data, but that gives you a sense of the scale
19 of what PCORnet might be able to do with these 62
20 million patients within the Common Data Model
21 across the 11 CDRNs. This does not account yet for
22 the two new CDRN networks.

1 Moving now into governance and sort of
2 generally operational work that's going on within
3 PCORnet. We have a number of critical work groups
4 formed early in the summer. This is just sort of
5 giving you a highlight of what these work groups
6 are focused on and what they will be delivering.

7 We have a Dashboard similar to the one
8 PCORI uses for this Board of Governors. We are
9 producing a Dashboard for PCORnet and its steering
10 committee, now called the PCORnet Council.

11 We have a front door policy so where to
12 knock on the door, how to knock on the door of
13 PCORnet. That is currently under development and
14 will be ready in October. We have two really
15 critical work groups focused on IRB and contracting
16 for PCORnet. These are really, I think,
17 potentially transformational just as much as the
18 data infrastructure piece. We have a lot of effort
19 and energy going into sort of pushing these work
20 groups forward.

21 We also have an engagement work group that
22 continues to outline engagement strategy for

1 PCORnet, including both patients, but also
2 importantly clinicians. Finally, we have an
3 industry work group building on several outreach
4 efforts that have already been made this past year
5 that were led largely by Bryan Luce and Adrian
6 Hernandez out of our Coordinating Center at Duke.
7 These are the work groups that are really starting
8 the business development work and the contacts with
9 industry.

10 A few words about governance. PCORnet is
11 evolving from a very sort of traditional structure
12 where PCORI funds 29 individual networks and the
13 coordinating center to something where the networks
14 are more engaged with each other, and for that we
15 needed a change or we needed a governance structure
16 that supported that.

17 On August 31, PCORnet's steering
18 committee, now called the PCORnet Council, voted to
19 approve their governance, it is a six to eight page
20 document that lays out decision making and lays out
21 sort of different critical committees that will
22 help run PCORnet, in addition to the Executive

1 Committee that has been functioning now for over a
2 year and a half and functioning well. We are now
3 adding an engagement, data, and research committee
4 to PCORnet.

5 A few words in closing around the business
6 plan development. Again, this was an ask of the
7 Board back in February. We engaged with
8 PriceWaterhouseCoopers in May to develop this
9 business plan for PCORnet. They have done a huge
10 amount of ground work and interviews and background
11 work, interviews with key stakeholders. They also
12 held an one day meeting with key stakeholders
13 within PCORnet, and are in the final stages of
14 putting together their recommendations to PCORI.
15 These recommendations will be presented to you
16 shortly. They first need to be vetted by our legal
17 counsel and by the PCORnet Executive Committee to
18 ensure they can be disseminated.

19 The bottom line of the business plan is
20 they are recommending a contractual consortium
21 model and have a number of supporting evidence and
22 documents to support that recommendation.

1 That is the end of my presentation.

2 CHAIRMAN NORQUIST: Great. We will start
3 with Barbara McNeil.

4 DR. McNEIL: I'm not sure I know what a
5 "contractual consortium model" is.

6 DR. FLEURENCE: It's a model whereby each
7 network has agreed to sort of link with each other
8 through a participation agreement or contract.

9 CHAIRMAN NORQUIST: I'm sorry, there's
10 some feedback on the phone.
11 Okay. I'm not sure who is on the phone but they
12 may need to mute their phone.

13 UNIDENTIFIED: My fault, Gray; sorry.

14 CHAIRMAN NORQUIST: Go ahead.

15 DR. FLEURENCE: The conversation about
16 PCORnet sustainability is ongoing and it generally
17 involves speaking of PCORnet being its own
18 independent entity at some point down the road,
19 sort of once PCORI funding goes away. The
20 questions have been how would this entity be
21 supported from a legal and structure point of view,
22 and having a consortium is one of the proposals on

1 the table for it.

2 DR. McNEIL: Just to make sure I
3 understand, there are lots of pieces on this, does
4 that mean each part makes an agreement or contract
5 with every single other one? I just don't
6 understand the mechanics.

7 DR. FLEURENCE: There would be a
8 participation agreement that would be central and
9 it would link all the participating organizations
10 that wanted to be part of the consortium, so we
11 don't know that all of them would want to be, that
12 would replace right now what we have, sort of the
13 29 individual contracts that link PCORI to each of
14 the networks. That is really all that holds
15 PCORnet together right now, these individual
16 contracts. What we are looking is something that
17 holds them together without going through PCORI.

18 DR. McNEIL: Does that mean, pretend
19 there's A, B, C, D, E, whatever they are, they all
20 go into a central something, does it mean A and B
21 cannot get together without going through the
22 central whatever you are calling it?

1 DR. FLEURENCE: It does not mean that.
2 From a research perspective, networks will be able
3 to get together potentially using resources that
4 are now part of the PCORnet Common, so they will
5 have data that has been standardized, they may be
6 able to use the operational building blocks,
7 streamlined contracting. It is not necessarily
8 that they are all working through a central
9 coordinating center or program office, but there
10 has to be some sort of glue that holds them
11 together. Right now the conversation is around
12 what this glue is.

13 DR. SELBY: Rachael, I think we could say
14 in the PWC, the PriceWaterhouseCoopers proposal,
15 there is a recognition that something has to
16 replace the centrality of PCORI in this. What it
17 is is going to have to be worked out.

18 The Governance Committee has strengthened
19 the Executive Committee of PCORnet, but this
20 collaboration agreement is going to have to be
21 signed by anyone who is a part and probably they
22 are going to have to be signatures between each

1 network and some central function. That is going
2 to take a bit more time to work out, exactly what
3 that central function looks like.

4 For example, to the front door, to the
5 place that receives a large proportion of the
6 proposals for funding, one thing as Rachael said,
7 it's very strongly held, participating members
8 don't always have to go through that central
9 function. There can be PCORnet studies that
10 involve two or three networks that don't
11 necessarily go through the central function.

12 CHAIRMAN NORQUIST: Alicia was next.

13 DR. KRUMHOLZ: I have a question as well.

14 DR. FERNANDEZ: I have two questions.

15 Would you mind going back to the governance slide?
16 I just wanted to be sure I understood the slide and
17 whether or not there were non-investigators
18 represented and how they were represented and the
19 inclusion or not of other forms of non-
20 investigators. I have another question.

21 DR. FLEURENCE: That's a great question.

22 The PCORnet Council is our former steering

1 committee, so there's one PI per network. Our PIs
2 are now, especially on the PCORI side, we do have a
3 patient co-PI that was a requirement to come into
4 Phase II, so some of our PIs are actually going to
5 be patient co-PIs sitting on the PCORnet Council.

6 I guess they still have the title of
7 investigator, but we expect to have a number of
8 patient PIs or co-PIs sitting on the PCORnet
9 Council.

10 Similarly, our committee chairs may or may
11 not be researchers, but they may also be patient
12 advocates or people representing patients.

13 I think we have done a lot of work to
14 ensure and push sort of wider representation within
15 PCORnet, similar to the work we have done at PCORI.

16 DR. FERNANDEZ: I think that's useful.
17 Thank you. I guess my question may be this was
18 already approved already or maybe it doesn't need
19 to be approved by us or whatever. I don't know
20 what the relationship is. I wonder whether we feel
21 if this entity is definitely going to live on after
22 PCORI or we are making plans for that perhaps, who

1 knows, whether we feel comfortable about the
2 inclusion of stakeholders and the governance that
3 has been set up or the governance model going
4 forward. We may feel very comfortable with it.

5 I also don't know that I really understand
6 our relationship, and perhaps Gray can comment on
7 that or someone can comment on that later.

8 The second question I had was a more minor
9 question but it's not completely unrelated, which
10 is did I understand that we are going to fund two
11 health plans to see whether or not they can link
12 their data? If so, I'm curious, if I understood
13 that correctly, about that role of incentivizing
14 that particular linkage, if I understood correctly.
15 Was that external to PCORnet?

16 DR. FLEURENCE: Yes, I think when the
17 vision of PCORnet came out, the expectation was
18 that the networks that would come in would be
19 health plans working with delivery systems so we
20 would have these linkages.

21 The reality of who came into PCORnet is
22 its largely NEHR based systems. We do have some

1 integrated delivery systems, including Kaiser and
2 Group Health, but largely this is NEHR based
3 networks.

4 The funding is to work out the important
5 governance issues and how this might be linked. I
6 think where we are heading right now is sort of
7 apply some of the use cases to our demonstration
8 projects, potential linkages, particularly around
9 the aspirin clinical trial where we would try out
10 the relationships.

11 CHAIRMAN NORQUIST: I'm not sure we came
12 to a conclusion. That's been something they have
13 been working on. I think it's an issue, we should
14 have some further discussion about representation.
15 At some point, it's out of our hands, once they
16 move onto something else, they can do it. I guess
17 that's for further discussion, Rachael.

18 DR. FLEURENCE: Also, we have had really
19 vigorous conversations at the PCORnet level around
20 representation and patient representation. We had
21 the PCORnet Patient Council for the first year of
22 PCORnet's existence that had vigorous opinions

1 about representation, and I think we had really
2 healthy back and forth with patient groups, with
3 the patient PIs, with the PIs. That played out
4 quite a bit over the summer as we came to this
5 governance structure.

6 The potential particularly for patient
7 representation on the PCORnet Council is very high,
8 given that our 20 PPRNs have either patient PIs or
9 co-PIs.

10 CHAIRMAN NORQUIST: One way to find it out
11 is you could ask the people who are listed as the
12 stakeholders if they feel like they are engaged.
13 It would be interesting to see whether they feel
14 they actually are represented.

15 DR. KRUMHOLZ: My observation at the
16 meetings has been -- I haven't attended very many -
17 - the Executive Committee, the patients are there.
18 They don't have the same degree of voice as the
19 academic investigators. On an ongoing basis, they
20 need protection, if you will.

21 UNIDENTIFIED: Two comments and one
22 question. The governance issues are clearly going

1 to be very complicated. They are very difficult.
2 Alicia raises rightly the question about
3 representation of patients.

4 A comment is this is going to be obviously
5 very hard to make work, and I would encourage
6 representation of people who know how to make a
7 non-profit sort of small business work. The other
8 side of this, as I think of PIs who are likely part
9 of this now, this is probably not mostly in their
10 skill set. It's a different skill set. I'm sure
11 PWC talked about this.

12 The second comment or maybe a question, I
13 know you have had discussions with CMS about trying
14 to get Medicare and potentially Medicaid, much
15 harder data in, but as you mentioned the potential
16 contracts with health plans, I'm wondering where
17 those stand, but then the real question is about
18 the queries that were promised. I think the last
19 time you presented, Phase II had some number, I
20 forget if it was 50 or 100 queries that were
21 supposed to coming out of PCORnet, and I wondered
22 what the status of those are.

1 DR. FLEURENCE: On the CMS front, we do
2 have a pilot that is led out of Duke, our
3 coordinating center, working with CMS on the
4 Medicaid data. That's a pilot that is underway.
5 We are making progress on that front.

6 DR. SELBY: You said Medicaid, but I think
7 you mean Medicare.

8 DR. FLEURENCE: Yes, Medicare. To your
9 question on queries, we are getting very close. We
10 don't yet have a nice clean process where the knock
11 on the door is answered in a way that is
12 transparent and open yet to everyone because we are
13 still working out the final pieces. That is what
14 the front door working group is working on.

15 As part of the contracts for Phase II, all
16 our networks do have a certain number of built in
17 queries, and I think it is 50 for the first year.
18 We are very close. I think we have sort of flipped
19 into Phase II as contractually required by our
20 networks -- organized in terms of how these are
21 going to be sent and who gets to ask. We are
22 definitely much closer than in May.

1 CHAIRMAN NORQUIST: Bob Zwolak.

2 DR. ZWOLAK: Rachael, that's a huge amount
3 of work, congratulations. My question has to do
4 with the fact that we are building this research
5 blockage and right now, PCORI, I think, is buying
6 some fuel with the aspirin study and the bariatric
7 study. What other customers are there out there
8 who want to use PCORnet, and do you have any hard
9 commitments for monies to fund research trials
10 through PCORnet or at least any promises? Are you
11 building an one pager like Lew Sandy said for PCORI
12 itself or are you building an one pager why people
13 should sponsor research that would be done by
14 PCORnet?

15 DR. FLEURENCE: We had some very good
16 conversations with industry. These are led right
17 now out of our industry work group. We don't have
18 hot promises yet because we also want to see what
19 PCORnet is capable of doing. I think we still have
20 a little bit of ground work to do with respect to
21 getting all the nuts and bolts in place, including
22 the data infrastructure piece, but also the IRB and

1 contracting processes, sort of being able to
2 streamline these.

3 These conversations have started, and we
4 think it is okay to start them early so by the time
5 they come to fruition, we actually are able to
6 support research studies.

7 I will say the individual networks
8 themselves have already or are already supporting a
9 fair amount of research studies, they are not the
10 multi-site studies we talk about at the PCORnet
11 wide level, but we have already made a large dent
12 into sort of the capability of these networks.

13 Back to sort of Rick's comment, I think we
14 do need a business development capability for
15 PCORnet, but may not be sort of the bread and
16 butter of academic centers, so I think we need to
17 think really seriously about how we implement that
18 piece, but it is built into the PWC
19 recommendations. The one pager is critical, I
20 agree with you, and we will need to get that done
21 in short order.

22 CHAIRMAN NORQUIST: Sharon and then Gail.

1 DR. LEVINE: The contractual consortium,
2 does that represent [inaudible]. Is that intended
3 to be core funded?

4 DR. FLEURENCE: I need to be clear that
5 the PWC recommendation right now is just a
6 recommendation, so we have not had sort of a robust
7 process yet for PCORI leadership to review it for
8 the RTC and for the PCORnet stakeholders to review
9 it.

10 The current recommendation is for the
11 contractual consortium to be built off membership
12 fees that would go from probably three to five
13 years, and then actually would possibly go away
14 with the increased volume of research that we would
15 be able to support potential functions.

16 That is the proposal on the table.

17 CHAIRMAN NORQUIST: Gail and then
18 Christine.

19 MS. HUNT: I'm following up on Bob and
20 also Sharon's comments. I'm wondering what the
21 business case will be and what is the tie of the
22 business case of PCORnet to PCORI. Will there be

1 more than one PCORI representative as a voting
2 member on the Council versus our having -- are we
3 taking on some kind of additional fiduciary
4 responsibility that would be a part of the
5 consortium model, so that we would be perhaps
6 liable if things didn't turn out the way there was
7 contractually the expectation? That's one thing.

8 I guess I'm sort of -- I know a little bit
9 about the for profit side. I'm not sure that I see
10 in a relatively short period of time that PCORnet
11 will be able to establish a robust enough backlog
12 of research projects that it will be able to sort
13 of exist on its own.

14 When will we have the opportunity to see
15 exactly what PWC is proposing? I know that doesn't
16 mean we have adopted it. I'm just saying. There
17 are lots of business questions around this, leaving
18 aside the research questions.

19 DR. FLEURENCE: Yes, there are a lot of
20 points in your question. Thank you for making
21 them. I should have said this to Sharon as well.
22 I think a lot of the PWC work is around building a

1 value proposition for the participating networks
2 within PCORnet. There has to be something in it
3 for the CDPNs and the PPRNs to pay membership fees,
4 so that is a lot of our work now and a lot of our
5 work with PWC will be to make sure PCORnet is set
6 up for these institutions to be willing and find
7 something in it for themselves to continue
8 participating.

9 In terms of the fiduciary requirements,
10 PCORI's legal department is looking very closely at
11 that, and is really ensuring there will not be
12 liability for PCORI where there doesn't need to be
13 liability for PCORI.

14 A lot of the consortium will be set up in
15 a way and a structure that really ensures that
16 PCORI has the right relationship with the future
17 structure. I'm very confident our legal department
18 and external counsel are looking at that closely
19 and it will be set up under the appropriate
20 process.

21 I think you asked about when we would see
22 the PWC recommendations. We currently have a draft

1 version of that. It needs to be vetted by PCORI
2 leadership and undergo some legal review for the
3 reasons you just brought up, make sure the
4 structure is appropriate in terms of what PCORI can
5 and cannot do.

6 Joe and I will present it more fully to
7 the RTC, which is the committee that oversees
8 PCORnet, and I'm sure there will be some way to
9 present it to the Board as a whole, what the
10 recommendation is for PCORnet.

11 There is going to be quite a bit of work,
12 I think, over the fall, familiarizing ourselves and
13 then the PCORnet stakeholders with this report and
14 recommendations. They also have to buy into
15 whatever is being proposed. Otherwise, it won't
16 work.

17 I hope I answered all your points.

18 CHAIRMAN NORQUIST: Christine?

19 MS. GOERTZ: Thank you, Rachael. I'm in
20 awe of the huge amount of work that has gone into
21 this over the last couple of years. It truly is
22 extraordinary.

1 I'm wondering what the timing is with the
2 NIH collaboratory fund, and the end of our
3 commitment toward infrastructure building. It
4 seems like they are not exactly happening at the
5 same time, and if any thought has gone into how
6 that might impact your business plan.

7 It seems not only our network but the
8 collaboratory is going to be somewhat scrambling
9 for sustainability in the same time period. I'm
10 just wondering if you have thought about that.

11 DR. FLEURENCE: We have not thought about
12 it specifically as to the NIH collaboratory fund.
13 That might be something for us to consider as we
14 look through the business plan recommendations.

15 I think essentially now our priorities are
16 to think about what this structure might look like
17 and then make sure we do have this business
18 development function so that we can bring in
19 research from a number of different parties to
20 support PCORnet networks.

21 I think a little differently from the NIH
22 collaboratory, which is really built upon sort of

1 the seven to ten pragmatic trials, that we are
2 really funding networks who themselves are able to
3 be able to bring in research themselves, so they
4 are ready sort of individually being able to find
5 ways to be sustainable and sustain themselves, and
6 that was also part of their Phase II applications.

7 We always have to think about sort of the
8 network level and then the PCORnet wide level. We
9 are largely focused on the PCORnet wide level and
10 how to launch the consortium, but each network
11 itself is thinking about it, sustainability and how
12 it may sustain research based on the infrastructure
13 that we have helped build.

14 DR. SELBY: I think part of the challenge
15 for us is to direct their thinking about
16 sustainability toward a PCORnet wide sustainability
17 rather than sustaining predominately their own
18 network.

19 DR. FLEURENCE: Right.

20 DR. SELBY: It has to be both.

21 MS. GOERTZ: That's why I'm thinking about
22 it in the sense that the timing is such and since

1 they're going to be a lot of the same people trying
2 to figure out, they may even have competing demand,
3 some competing priorities.

4 CHAIRMAN NORQUIST: Sharon?

5 DR. LEVINE: You said "leading with
6 industry." I just wondered specifically which
7 industry you were talking about.

8 DR. FLEURENCE: We met in March with the
9 pharmaceutical, device, and diagnostic industries.
10 We had a two day workshop. Out of that came a work
11 group that has both stakeholders from these
12 particular life science industries but also from
13 the FDA and PCORI and probably a few others, just
14 trying to figure out what the plan moving forward
15 will look like, what the requirements are to
16 support research within PCORnet, what the processes
17 are, et cetera.

18 DR. LEVINE: The reason I asked is I
19 suspect there might be equal interest on the part
20 of the carriers as an industry group to get some of
21 their questions answered.

22 DR. SELBY: We have an ongoing project

1 with payers. We have convened one face to face
2 meeting and now we are planning a second one.
3 Also, the funding announcement to attract two large
4 payers is another part of that strategy. The
5 reason it is two is we realize it has to be proved
6 it can be done, and we think having two attempts at
7 that is probably enough right off the bat. It may
8 prove successful and advisable to link up with
9 other plans, and then once the plans are involved,
10 this notion of discussion between plans and
11 delivery systems and even plans and delivery
12 systems and industry sponsors of research,
13 pharmaceutical industry sponsors of research, is a
14 very interesting prospect.

15 UNIDENTIFIED: I think it is really
16 fascinating and fabulous work. I am sure you all
17 have thought about it a lot. This whole process is
18 fraught with peril from a potential ethical point
19 of view. I guess I'm wondering -- this question is
20 not necessarily to you, Rachael, but I think you
21 did start to address the process, but I'm really
22 curious as to whether there will be an opportunity

1 for us to discuss this at more length, the issue of
2 governance and the issue of safeguards.

3 I think it is really important to get this
4 right and not to get it right from the beginning,
5 I'm sure, I can see how hard and thoughtfully
6 people are working on it, but I wonder for the
7 Board when we will talk about this and when we will
8 hear presentations.

9 CHAIRMAN NORQUIST: Yes, we will have an
10 opportunity. The question I would pose to Rachael
11 is when is the right time or when do you want to
12 have that conversation.

13 DR. FLEURENCE: We have a large
14 stakeholder meeting planned in January, around what
15 we are calling public trust, public trust
16 worthiness, around PCORnet, and then engaging a
17 number of groups to work through some of the
18 ethnical implications with PCORnet, so perhaps
19 after the January meeting would be a good time.

20 CHAIRMAN NORQUIST: Let's just plan on
21 that. That will be an action item, Joe? Come back
22 after that with a formal presentation and

1 discussion. Is that good?

2 DR. SELBY: Very good. Briefly, it is
3 certainly a discussion that needs to be had. I
4 guess it was at the May meeting that we had a
5 discussion about whether in principle we wanted to
6 support the development of some non-PCORI thing.
7 This isn't the first time we have been through
8 this, although as we get closer, all the issues
9 need to be dealt with.

10 UNIDENTIFIED: Absolutely, this is a
11 friendly remark, which is it is all in the details.
12 I think we are all very happy about PCORnet and see
13 that as one of the great potential legacies of
14 PCORI.

15 DR. SELBY: I think this whole discussion
16 has helped to focus -- Rachael and I certainly were
17 aware of this before, but helped to focus having
18 made the decision that we did at the last Board
19 meeting that Rick points out, how you actually do
20 that.

21 One of the things we know is that we may
22 not have any more funding to give out coming come

1 the end of 2018 to sustain PCORnet even if we
2 wanted to. It has been our judgment at the Board
3 that we need to stimulate this sort of gradual
4 separation from PCORI into its own entity.

5 The fine points about when you relinquish
6 "control" are delicate and nuanced. If you hold
7 onto control too long, you both risk ruining
8 something that otherwise might have taken off, and
9 you also risk maybe delaying the point at which the
10 network really does make its own efforts to stand
11 on its own two feet. It's quite delicate.

12 We sure hear, I think, your concern that
13 we don't want this investment going to something
14 that we really wouldn't be happy with on day one.

15 CHAIRMAN NORQUIST: Bob Zwolak.

16 DR. ZWOLAK: Very quickly, PCORI has made
17 just enormous contributions to starting this
18 project and funding these two pilot projects. I
19 think one thing maybe we should talk about some
20 more is whether we should fund more PCORnet
21 directed research. I think I've heard comments and
22 opinions on both sides of that issue.

1 One group is saying oh, no, if we offer
2 research money, it should be to whoever offers up
3 the very best application, and others suggesting we
4 may need to give it some more seed money just to
5 make sure it gets out of the net.

6 I think that's an important question.

7 CHAIRMAN NORQUIST: That is something we
8 can discuss. I think it's a very important
9 question. One thing I need to say right now
10 because it's 5:30, I do need to let everybody know
11 that as no one is present or waiting on the line,
12 we will not be initiating our public comment
13 period. You are always welcome to give us feedback
14 at info@PCORI.org or through our website at
15 PCORI.org.

16 We will finish up on this. Rachael, since
17 we are still in public session, we have gotten some
18 questions -- I have and some others -- about these
19 various registries. What is the interface with
20 those, any discussion about how they might
21 interface? It has come up and I was just curious.

22 DR. FLEURENCE: The future interface with

1 registries is really important and we have put a
2 lot of work into standardizing our data using a
3 common data model and through the work, outreach to
4 registries to see how we might collaborate, I
5 think, is going to be very important.

6 We do have a number of registries within
7 PCORnet, some PPRNs that came in as registries, and
8 then sort of launched into patient-powered
9 registries, if you will, with patient governance.
10 We both have kind of models within PCORnet for
11 registries to work with us, and then I think for
12 future collaboration with registries, I'd say you
13 have seen the work streams, I think the registry
14 work stream has sort of just been a little further
15 down the road so we could stress kind of the
16 burning work streams.

17 We definitely see the future with
18 registries as bright and we would like to be able
19 to implement that.

20 CHAIRMAN NORQUIST: I think the point of
21 that is as we develop the one pager, what is unique
22 about what PCORnet would be doing as opposed to all

1 these other kinds of data infrastructure things,
2 and then where are the collaborative efforts, so
3 that people who are not as into this will
4 understand what the differences are and the
5 similarities and where the opportunities are.

6 Let me offer -- Freda, since you are the
7 RTC chair, if you wanted to say anything at this
8 point. Are you rock and rolling? I guess not.

9 [No response.]

10 CHAIRMAN NORQUIST: Anyone else on the
11 phone?

12 [No response.]

13 CHAIRMAN NORQUIST: Thank you very much,
14 Rachael, for that.

15 [Applause.]

16 DR. KRUMHOLZ: Gray, I just want to say
17 one thing. Sorry if you hear this background
18 noise. I do want to say it's an extraordinary job
19 that Rachael has done. The point Alicia made I
20 think is so important. It is all on us, not on
21 anyone who put together PCORnet because when we
22 developed it, we put them in the position where

1 this was going to be an issue. We don't want to
2 have put in all this money just to start a CRO.

3 It's going to be something we need to
4 struggle with them because they now have an active
5 group that has been investing a lot, and I think it
6 is a high priority for us to spend a lot of time
7 talking about how we can best interface with them.
8 We want them to be independent, but we also want
9 them to adhere to our principles, and I think that
10 is a very tough line to walk. We want them to be
11 able to get their own sources of revenue but we
12 want them to act in certain ways. I think it is
13 one we are going to have to work together to try to
14 solve.

15 CHAIRMAN NORQUIST: I agree, like having a
16 child, you want them to be independent but at the
17 same time you want to direct it.

18 CHAIRMAN NORQUST: Thank you, Rachael,
19 very much. One of the things we have been trying
20 to do, and starting with this meeting, was to be
21 clear as we had action items or things to follow up
22 on, because I've asked Joe and them that as things

1 came up, we wanted to make sure we had follow up,
2 and then at the next Board meeting, we had a report
3 on how we followed up on that.

4 I would hope people would help us with
5 ones we missed, but we have a list of them that we
6 kind of pulled as we went through today. Joe?

7 MR. SELBY: I'm so glad you asked. Listen
8 carefully and let us know if we missed any. Back
9 to the earliest discussions this morning, there is
10 a strong call for more evidence about the
11 milestones and active portfolio management, what do
12 we do when projects approach and enter the red
13 zone, how long, for example, do we go before
14 termination.

15 We have had some e-mail exchange during
16 the day with people from staff who were listening
17 in, confirming what we said this morning, we have
18 excellent SOPs in this area and good practice on
19 this, but we will report back to you in detail at
20 the December Board meeting. That is part of the
21 December Dashboard report.

22 A good point was made, somehow you can't

1 just change/modify contracts, delay milestones, and
2 then report that everything is okay, or else you
3 could manage to have 100 percent excellent
4 performance even though nothing ever got done.

5 We will work toward and get back to you on
6 that, too. We have a little bit there, but we need
7 to get it more linked to the performance reports,
8 we are this good, but that links to X number of
9 contract modifications and delays. We think that
10 through a little bit more carefully.

11 We will provide more information about
12 application success rates, particularly more
13 information on resubmissions, how they fare, and
14 how our success rates for resubmissions may compare
15 with those at AHRQ and NIH.

16 Also, the question about how likely are
17 unfunded applicants to reapply. We will take that
18 under advisement. Remember we report back to you
19 in two weeks on what we are doing. We will try to
20 have a report back to you by then on who is going
21 to handle that and when we can get back to you.

22 We are going to modify the presentation of

1 studies proposed for funding at least to the extent
2 that we give you clear information on the
3 intervention arms that are being compared. That
4 was missing from two of the big studies today.

5 In general, I think I heard the Selection
6 Committee vowing to work a little more detailed
7 into the slate presentation and the rationale. I
8 think this has more to do with the pragmatic
9 trials, the bigger studies than the smaller ones.
10 We had some good discussion today even about the
11 broad slate.

12 Next was we commit to working on pursuing
13 the idea of a question around opioid therapy, which
14 has to do with primary prevention of chronic opioid
15 therapy use. We will explore this with advisory
16 panels, with the SOC, and with NIDA, and keep you
17 apprised of that. Again, we will have a plan in a
18 couple of weeks.

19 Gail's call to really gear up
20 dissemination now that the results are starting to
21 pour in was heard, and I think the next meeting
22 would be a good time to update you on hiring and

1 other activities around dissemination that are
2 picking up, so we will be glad to report back to
3 you on that in December.

4 An interesting question was whether the
5 Methodology -- this was Harlan Kromholz -- the
6 Methodology Committee actually needs its own
7 website or a more obvious expanded spot on PCORI's
8 website. Also, are there additional ways that we
9 can work on developing handy tools for people to
10 use, both in doing research and in training and
11 education.

12 The next one was about PCORnet and the
13 questions were raised about the extent, nature and
14 quality of patient and stakeholder engagement in
15 PCORnet. You asked about an opportunity to speak
16 with or to hear more about this, and I think what
17 we should commit to is getting the Executive
18 Committee of PCORnet, which brings the coordinating
19 center along, to talk to you about our engagement
20 plans in Phase II, as the best way to do that.

21 I agree with whomever said we simply need
22 to look for more opportunities to interface, we

1 realize, just like Gray said, you need to look for
2 opportunities to interface with your teenaged
3 children, and this is very similar here.

4 The idea of one pagers that was actually
5 raised first by Lew Sandy but then Harlan rephrased
6 it with respect to PCORnet. In fact, we have one
7 pagers and we use them, particularly on the Hill,
8 we use them. When we have guest stakeholders
9 coming, we have an one pager on PCORnet, an one
10 pager on pragmatic studies, an one pager on the
11 broad and overall PCORI portfolio. I think they
12 are actually quite wonderful.

13 What I did hear is we should probably
14 build into these a little bit more about what the
15 future holds, where these are leading to, what they
16 can actually do. Right now, they are a little more
17 matter of fact, a little bit more objective. They
18 are not maybe as forward looking or as conveying of
19 the promise of this effort as they could be.

20 Those are the ones I captured. Does
21 anybody have another one that they suggested? You
22 usually remember the ones you suggested best.

1 DR. LEVINE: I have one I didn't suggest.
2 It was a thought that came to me as we were talking
3 pretty much through the day, it is the issue of
4 looking at the opportunity we have in systematic
5 reviews, landscape reviews, systematic reviews, and
6 whether we might do some anticipatory work.

7 DR. SELBY: Did Evelyn plant that question
8 with you?

9 DR. LEVINE No, I didn't even talk to her
10 about it.

11 DR. SELBY: You know she is a national
12 leader in that work. We definitely anticipate more
13 in evidence synthesis in general and also synthesis
14 of our own research, and also the topic brief.

15 DR. LEVINE: My point is we are at a point
16 now where I suspect we can anticipate some of the
17 research questions that we will want to pursue over
18 the next three years. Doing some systematic
19 reviews as a basis of jump starting some of that
20 work as the development of PSAs happen. It might
21 be useful.

22 DR. SELBY: Excellent. It is actually

1 something we are thinking about a lot. We talked a
2 lot with AHRQ about it, too, because they do a lot
3 of evidence synthesis. We have already begun
4 talking about it with Evelyn. I think she will
5 really energize that work here at PCORI, thinking
6 about it. We may postpone the report back a little
7 bit beyond the December meeting because she won't
8 be with us yet in December.

9 DR. LEVINE: A related topic, and we
10 discussed it at the Governance Committee, the issue
11 of looking at as part of a Board development
12 activity -- I hope this is all right to raise this
13 before your report.

14 Looking at the state-of-the-art of health
15 services research into health systems improvement,
16 doing some work on that and using that as a Board
17 development. I think there have been questions
18 about whether we should continue that stream of
19 research, whether we ought to enhance it, are we
20 picking the right topics around improving health
21 systems. I think as part of Board development work
22 with a systematic review on the topic of what the

1 state of the research is into that internet arena
2 might be helpful for the Board and helpful for us
3 to evaluate our portfolio.

4 CHAIRMAN NORQUIST: Bob?

5 DR. ZWOLAK: Joe, just as a reminder, I
6 would like to hear more discussion about this topic
7 related to PCORnet, specifically fund additional
8 PCORnet research projects or prioritize, give a
9 weighted score to PCORnet involvement or just let
10 them fight among all other competitive bidders.

11 DR. SELBY: One argument is with all the
12 resources and infrastructure we have funded, they
13 ought to be competitive. One thing that occurred
14 to me when Gray asked, there might be some kind of
15 role for supporting particularly projects where
16 other registries link with PCORnet. That might be
17 an area.

18 CHAIRMAN NORQUIST: Others on the phone?

19 [No response.]

20 MS. GOERTZ: I would just say to follow up
21 on Alicia's idea about the toe in the water concept
22 of trying to provide opportunities for

1 investigators to potentially be engaged in pilot
2 projects or some small comparative effectiveness
3 research to get their interest.

4 CHAIRMAN NORQUIST: Okay. Thanks. Let me
5 close by thanking those who joined us today both in
6 person as well as via webcast, teleconference. A
7 reminder, our materials will be soon available on
8 the website at PCORI.org. We always welcome your
9 feedback at info@PCORI.org or through our website.

10 Thanks for joining us, and good evening to
11 everyone. Thanks.

12 [Whereupon, at 5:45 p.m., the meeting was
13 adjourned.

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