

PATIENT-CENTERED OUTCOMES RESEARCH INSTITUTE

BOARD OF GOVERNORS MEETING

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P R O C E E D I N G S

[10:15 a.m.]

1  
2  
3 OPERATOR: Dr. Norquist, the floor is  
4 yours.

5 CHAIRMAN NORQUIST: Thanks. Good morning.  
6 I'm Dr. Gray Norquist, chair of the PCORI Board of  
7 Governors and I want to welcome you to today's  
8 Board meeting, which is being held in Washington  
9 D.C. in person. It's also being held by video  
10 conference -- I mean, excuse me -- teleconference  
11 and webinar. For those unable to attend in person,  
12 instructions for logging in or calling in are  
13 available on our website at [pcori.org/events](http://pcori.org/events).

14 All Board members are present in person,  
15 except Francis Collins who has designated Mike  
16 Lauer in his place. I want to remind everyone that  
17 disclosure of conflicts of interest of members of  
18 the Board are publicly available on our website and  
19 are required to be updated annually.

20 Members of the Board are also reminded to  
21 update your conflict of interest disclosures if the  
22 information has changed. You can do this by

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1 contacting your staff representative. If the Board  
2 will deliberate or take action on a matter that  
3 presents a conflict of interest for you, please  
4 inform me so that we can discuss how to address the  
5 issue. If you have questions about conflict of  
6 interest disclosures or recusal relating to others,  
7 please contact your staff representatives.

8 All materials presented to the Board for  
9 consideration today will be available during the  
10 webinar and then after will be posted on our  
11 website at [pcori.org](http://pcori.org). The webinar is being  
12 recorded and will be posted by the end of the week.  
13 We have a scheduled public comment period today  
14 from 5 until 5:30 p.m. EST. If you are interested  
15 in registering to provide public comment, please  
16 visit our event page for instructions.  
17 Alternatively, you can always e-mail us at  
18 [info@pcori.org](mailto:info@pcori.org) or provide input through our  
19 website.

20 Finally, a reminder. We're live-tweeting  
21 today's activities on Twitter. Join the  
22 conversation at #PCORI.

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1           And the first item is an approval of the  
2 minutes. And so, that's from our November 17th  
3 Board meeting. So, I need a motion to approve the  
4 minutes.

5           VICE CHAIRMAN BARNETT: Moved.

6           CHAIRMAN NORQUIST: Kerry? Thank you.  
7 And a second?

8           DR. LEVINE: Second.

9           CHAIRMAN NORQUIST: Thanks, Sharon. Any  
10 discussion about the minutes? Any comments?  
11 Changes?

12           [No discussion.]

13           CHAIRMAN NORQUIST: Okay. I think we can  
14 just do a voice vote here. So, all in favor?

15           [Chorus of ayes.]

16           CHAIRMAN NORQUIST: Anyone opposed?

17           [No response.]

18           CHAIRMAN NORQUIST: And, anyone  
19 abstaining?

20           [No response.]

21           CHAIRMAN NORQUIST: Okay. That takes care  
22 of that one. And so, Joe?

1 DR. SELBY: Good morning.

2 CHAIRMAN NORQUIST: Joe Selby is our  
3 executive director.

4 DR. SELBY: Good morning, Gray, and good  
5 morning, staff members, and public who are here  
6 with us and listening online.

7 We're going to go out of order this  
8 morning because of some time constraints on  
9 presenters. At our September Board meeting, the  
10 Board of Governors asked us specifically about  
11 patient engagement and stakeholder engagement in  
12 PCORnet, our very large infrastructure project.  
13 And in response, I've invited Sue Sheridan, who is  
14 the director of patient engagement at PCORI and has  
15 been with us for four years and has been trying to  
16 help researchers understand and work with and  
17 actually learn on behalf of PCORI as well what  
18 valuable, valid, useful engagement looks like -- to  
19 present to us.

20 And also, Sharon Terry, who is -- get  
21 ready, three titles here. She is the principle  
22 investigator of one of the patient-powered research

1 networks in PCORnet. Sharon is also a co-principle  
2 investigator of PCORnet's coordinates coordinating  
3 center, and her responsibilities are directed  
4 towards coordinating all of the PPRNs and  
5 coordinating the work and supporting the PPRNs in  
6 creating their own networks and networking among  
7 themselves and in playing crucial, central roles in  
8 PCORnet as a whole.

9           And a third title is a result of  
10 governance changes at PCORnet as we enter Phase 2.  
11 We now have three central strategy committees of  
12 the PCORnet Council and one of them is the  
13 engagement committee, and Sharon was elected by her  
14 peers within the PCORnet Council to chair the  
15 engagement committee.

16           So, thank you both for being here this  
17 morning. And I think we will start with Sue and  
18 hear about engagement in PCORnet from the PCORI  
19 perspective and then hear from Sharon about  
20 engagement in PCORnet from inside, from on the  
21 ground inside PCORnet.

22           Thanks, and I'll turn it over to you, Sue.

1 MS. SHERIDAN: Great, thank you, Joe.

2 This presentation really is intended to  
3 share with you and to demonstrate the real synergy  
4 and overlap between the strategic plan for  
5 engagement for PCORI and the engagement that  
6 Sharon's going to talk about in PCORnet. And we're  
7 going to share -- I'm going to demonstrate how  
8 we're discovering the opportunity to really share  
9 in leverage, our respective tools, and resources  
10 that we're creating in PCORI and PCORnet that we  
11 think is mutually-beneficial to each other.

12 And then, Sharon's going to really  
13 demonstrate and she's going to share the engagement  
14 plan for, say, two of PCORnet. So we're going to  
15 begin by sharing what really makes PCORnet  
16 different -- and PCORI -- different. And that  
17 really is the engagement as the tool for  
18 transformation.

19 And so, this graphic just illustrates that  
20 it's engagement that makes -- that really separates  
21 PCORI in the world of research and PCORnet in the  
22 world of a development of a data research network.

1 And in PCORI, the engagement really is to both at  
2 the enterprise level and at the individual project  
3 level, where patient and stakeholder engagement is  
4 required. It really serves to influence that the  
5 research is patient-centered, that it's relevant  
6 and useful to establish trust, and to encourage  
7 successful uptake of the research findings.

8 In PCORnet -- and Sharon will talk more  
9 about this -- the engagement at both the enterprise  
10 and the individual PPRN and CDRN level really is  
11 the cornerstone in building trustworthy patient-  
12 centered research network.

13 So, this next slide just demonstrates --  
14 you'll recognize this. This is from our original  
15 strategic plan that we built all together back in  
16 2013. It demonstrates that PCORnet is aligned with  
17 the principles and the thoughts that we had when we  
18 created the plan for engagement to develop  
19 community skills and PCORI -- that was our number  
20 one goal. To successfully establish an  
21 infrastructure for patients, caregivers, and other  
22 stakeholders to increase information, engage in

1 research dissemination and evaluation, and to  
2 engage that community in the research process, and  
3 to promote dissemination and implementation. And  
4 Sharon is going to walk through what they're doing  
5 that follows right into those long-term goals.

6           The next slide really shows that there  
7 really is significant synergy between PCORI's  
8 engagement, core principles, and strategies, and  
9 that of PCORnet. And you can see kind of in this  
10 overlap zone that both PCORI and PCORnet are  
11 striving to build a community that is skilled in  
12 PCOR. That we're both creating repositories of  
13 models and promising engagement practices to share  
14 with each other and the broader research community.  
15 We're both creating tools and strategies to ensure  
16 meaningful engagement in research. That is really  
17 one of our legacies, I think, at PCORI and PCORnet,  
18 and that we're building robust measures of  
19 engagement in both initiatives.

20           So, I'm just going to show you a couple  
21 slides on some of the tools and frameworks that  
22 PCORI has built with the patient community and

1 stakeholder community that are available to  
2 PCORnet. And we've talked about doing some  
3 modifications with some of these tools to really  
4 fit with PCORnet. But we have engagement rubric --  
5 now, all of these are in your appendix if you want  
6 to reference any of these tools that are created.  
7 We created a patient engagement framework for  
8 infrastructure development that was used at the  
9 beginning of Phase 1 of PCORnet.

10           We've also created a compensation  
11 framework. This is the compensation framework for  
12 patient partners in research. This was vetted by  
13 patients, created in partnership with the Patient  
14 Engagement Advisory Panel. This is now online and  
15 referenced by several organizations. We also have  
16 tools and strategies to evaluate engagement. We  
17 have examples of metrics and measures that we are  
18 eager to work together on how to develop that  
19 together.

20           And then, we have just some training  
21 capacity-building tools and programs to help build  
22 this community that both PCORnet and PCORI are

1 building. One of the main ones is the Eugene  
2 Washington Engagement Awards. I'm going to give  
3 you a couple examples. And then, we are in the  
4 process of developing a PCOR/CER training. We have  
5 our ambassadors. We actually have PCORnet and PPRN  
6 -- especially PPRN -- well, actually some CDRN --  
7 folks now have become PCORI ambassadors. So,  
8 there's a lot of nice cross-fertilization.

9           We're in the process of creating a Team  
10 Science curriculum, and we are doing -- in the  
11 process of creating rubric training video for  
12 everybody undertaking research and engaged  
13 research.

14           Just a couple examples. You have several  
15 examples in your appendix, but just to highlight.  
16 The Engagement Awards, that's led by Lia Hotchkiss,  
17 that's here if you have any questions -- back  
18 there. This is just to demonstrate that we're  
19 creating tools and we have resources in PCORI that  
20 really serves as a resource to PCORnet and the  
21 broader research community. This is one that's  
22 called Better Said. This is actually an engagement

1 award that is really unifying CDRNs and PPRNs and  
2 helping them work together on going forward to  
3 prepare arthroplasty patients and other  
4 stakeholders to participate collaboratively in  
5 patient-centered CER.

6 Another one of our engagement awards that  
7 not -- the awardee is not a PPRN or CDRN -- this  
8 was to the Reagan-Udall Foundation. This is called  
9 Big Data for patients. This is just the  
10 development of a curriculum that's going to help  
11 patients understand what is big data. What are the  
12 benefits? What do they need to be aware of? And  
13 so, this is again broadening the knowledge of our  
14 patients and our patient community about big data,  
15 which will, in effect, support the efforts of  
16 PCORnet.

17 So at that, I'm going to pass it on to  
18 Sharon so she can share how PCORnet and Phase 2 --  
19 as they are becoming more independent -- that we  
20 would have resources at PCORI, but as they take on  
21 PCORnet Phase 2, she's going to share that plan  
22 that they're in the process of developing.

1 MS. TERRY: Great. Thanks, Sue. And  
2 thanks very much for being here with all of you. I  
3 think Joe went over how I'm related to PCORnet.

4 So, the engagement goal for PCORnet is  
5 essentially to create a truly participant -- and we  
6 use these two words interchangeably -- participant  
7 and patient-centered research network by  
8 systematizing -- which is a very important word to  
9 us, that we're not just one-offing these things --  
10 overall engagement, governance, leadership, et  
11 cetera -- research practices to implement strong  
12 process for measurable engagement strategies and  
13 ensure that all of our activities include everyone  
14 in terms of the participant types.

15 We'll execute this on two levels; the  
16 PCORnet enterprise level, so that's across PCORnet  
17 as a network, and then the individual networks  
18 focusing on engagement in several stakeholder  
19 types. Not limited to these, but specifically  
20 patient participants, clinical provider  
21 investigative researcher, and community and systems  
22 leaders.

1           We had a work group for the last quite a  
2 few months, five or six months. I led that with  
3 Rachael Fleurence. Sue was part of it. Bray  
4 Patrick-Lake, who I think many of you know from the  
5 coordinating center at Duke -- and then several  
6 people from each PPRN and CDRN has participated as  
7 well. We also had a very robust and broad process  
8 that engaged all of the stakeholders.

9           So, the Engagement Committee that is now  
10 mandated -- so, Joe mentioned we have a Data  
11 Committee, a Research Committee, and an Engagement  
12 Committee to be sort of the three legs of the stool  
13 that is PCORnet. The Engagement Committee has  
14 decided that all engagement strategies, activities,  
15 and products be monitored by the Executive  
16 Committee and the PCORnet Council -- and to remind  
17 you, those terms -- Executive Committee are two  
18 PPRNs, two CDRN leaders, the coordinating center,  
19 and PCORI working together as sort of an executive  
20 board. The Council is being one representative of  
21 each of the PPRNs and CDRNs that are now funded.

22           Our observations were many, and I'll be

1 very brief with these. They're available for you  
2 to look at. Essentially, that we recognize that --  
3 we've begun to recognize that patient-led research  
4 in the form of the PPRN needs more, and we've begun  
5 to talk about that. Engagement is valuable and  
6 must assess needs. We have to start to understand  
7 experience, utilizing tools that would give us  
8 better access to services, as well as amplify the  
9 voices of the participants in the process.

10           One of the things we know about engagement  
11 is that you cannot expect people to just enroll to  
12 be used by the research system. There must be  
13 value given back to those individuals, it must be a  
14 virtuous cycle, and we're looking for what's the  
15 magic sauce of those cycles.

16           Engagement requires deep and authentic  
17 interactions. Again, you can't just tell people  
18 "this is engagement". Engagement is relationship,  
19 and we all know how difficult and how exciting  
20 relationships are. They are not transactional, and  
21 so we're really trying to get to what is the  
22 coordination and systemization of such activities.

1           They must be stakeholder-driven. These  
2 cannot be done top down. However, we believe they  
3 must be assisted centrally, i.e. a coordinating  
4 center, but conducted throughout the network in a  
5 federated model. So, if some networks are better  
6 at some things and others at others, we should be  
7 using those networks in a federated sense of  
8 imparting that knowledge and those tools.

9           And then, PCORnet has the opportunity to  
10 improve population health through meaningful  
11 stakeholder engagement addressing factors that  
12 impact health outcomes for the individual through  
13 interpersonal and community levels as well.

14           So, we looked at the strategic activities  
15 that were, so far, being undertaken and this was,  
16 again, a four-, five-, and six-month process.  
17 Analysis of all the engagement products, tools, and  
18 activities both within and without PCORI -- so, we  
19 looked at what was happening in PCORI and then  
20 beyond. A framework for engagement activities over  
21 the next three years of Phase 2 is what we mapped.  
22 We looked at development of criteria and measures

1 for engagement.

2           Some exist, but they're somewhat nascent.  
3 They need more work. We need to implement and  
4 improve process for systemic engagements for  
5 energies throughout all the levels I talked about.  
6 We need to recommend engagement tactics within  
7 PCORnet. Identify a process for ongoing  
8 coordination with PCORI to ensure that all the  
9 great stuff that's coming out of the EAIN awards --  
10 the other activities that Sue is working on -- are  
11 really coordinated well.

12           And then, to outline a process for routine  
13 sharing within the network, and we're looking at  
14 things like robust commons, the typical ways of  
15 sharing information, but also some novel and  
16 interesting ways as well.

17           And this is the last slide I have. We put  
18 together something called a Key Driver Diagram that  
19 essentially says if our goal is to create this  
20 authentic participant-centered network that's  
21 systematizing engagement and measuring it. What  
22 are the drivers for that? And we list here some

1 drivers. Again, I'm not going to go through all of  
2 this. And then, what are the interventions we need  
3 to get those drivers done?

4           So, the committee is actually working on  
5 the intervention level now to start to put those  
6 together. We actually pick committee members in  
7 the next month or so. All the PPRNs and CDRNs have  
8 nominated individuals to the three committees. We  
9 got an enormous number of nominations, it's  
10 fabulous, and we'll put together the committee that  
11 will actually work on these interventions to get to  
12 the drivers, to get to the goal, have dashboards  
13 that are transparent so we can see our progress,  
14 where we need to improve, et cetera. And so, we're  
15 pretty excited about this activity going forward,  
16 particularly that we systematize and measure things  
17 so that they are replicable and transformable.

18           One of the projects that we're undertaking  
19 rather soon -- January 20th, 19th and 20th -- is a  
20 trustworthiness meeting. We began by looking at  
21 public trust and said when we say that it sounds  
22 like we want the public to trust us. And in fact,

1 we should be asking how is it that we are  
2 trustworthy? Because when we ask the other we're  
3 putting the onus on the public. So instead of that  
4 we're putting the onus on ourselves. We're going  
5 to look at how do we describe the characteristics  
6 of trustworthy engagement? How do we examine  
7 successes and failures and building trustworthy  
8 research initiatives, including things like care  
9 data and other things that have tried to do this  
10 and failed.

11           Beginning a robust dialogue about  
12 trustworthiness within PCORnet that's open and  
13 honest and frank. Creating recommendations for  
14 PCORnet and its stakeholders and then creating  
15 recommendations for the networks. Again, we're not  
16 going to ask how do we get people to trust us, but  
17 instead how are we trustworthy? The onus is really  
18 on us.

19           Thank you.

20           CHAIRMAN NORQUIST: So, thanks. We'll  
21 open it up now for questions or comments. If you'd  
22 put your tent card up and then we'd go around.

1 Barbara is the first hand I saw so far.

2 DR. McNEIL: That was a lovely  
3 presentation. My questions will describe a little  
4 ignorance.

5 So the first question is to Sue and then  
6 the second one is to Sharon. And the question to  
7 Sue is, you mentioned you had some training awards  
8 in one of your early slides. How are you going to  
9 measure the success of those training awards and  
10 what is the outcome?

11 MS. SHERIDAN: Right now we are in the  
12 process -- all of our training awards are underway,  
13 so we haven't had any outcomes yet.

14 DR. McNEIL: What will they be?

15 MS. SHERIDAN: We will have a variety --  
16 we can invite Lia to share some of the -- we've got  
17 over 70-some awards in the Eugene Washington  
18 Engagement Awards. Many of them if not most of  
19 them are training and development. So they're  
20 training curriculum in helping communities, mostly  
21 of patients and other stakeholders, understand CER  
22 and PCOR and how they can engage more robustly in

1 that. So it could be a training award to a patient  
2 organization.

3 DR. McNEIL: Got it, so there were no  
4 outcomes associated with those training awards?

5 MS. SHERIDAN: The outcomes are actually  
6 -- they're deliverables in that they deliver those  
7 training curriculums -- the products to us.

8 DR. McNEIL: So then question for Sue and  
9 this is the one -- I'm sorry and I didn't quite get  
10 it this morning and I don't quite get it now. When  
11 you talk about your incredibly comprehensive set of  
12 activities to get patients involved in this, the  
13 question that I have is, I guess two questions.  
14 One is, this is an incredibly long list of process  
15 items. When ultimately at the end of the day you  
16 want to have patients voluntarily sign up for  
17 activities [inaudible]. That's really your goal.  
18 [Inaudible.]

19 So then the question is one, when do you  
20 think that will happen and two, and this is the  
21 real critical one, what makes you think that your  
22 activity will be more successful getting patients

1 [inaudible] study of cemented versus cementless  
2 prosthesis hip replacement than having the  
3 orthopedic surgeon pull in patients?

4 I'm just trying to get a sense of where  
5 your marginal contribution is.

6 MS. SHERIDAN: Yes, I hope it's not going  
7 to be marginal. I hope it's going to be big.

8 DR. McNEIL: I'm sorry. Did you hear me?  
9 Should I do it again? Okay, so what I was  
10 questioning Sharon was that all of what you  
11 mentioned is really process items. And my first  
12 question was, how soon are you -- how close are you  
13 to translating those process activities to a real  
14 outcome involving the engagement of patients and  
15 real comparative effectiveness of the research.

16 And the second one was, how do you know or  
17 will you know or do you know how much more  
18 successful you are going to be in getting your  
19 patients in your various networks to enroll in,  
20 say, cemented versus cementless arthroplasty versus  
21 a trial run by orthopedists. And I use the term  
22 "marginal" in not a derogatory sense but in a true

1 analytic sense. What is your extra contribution to  
2 that enrollment effort?

3 So, how are you going to know that and  
4 when will you know it?

5 MS. TERRY: So, one of the things I did  
6 not present for sake of brevity is that we have a  
7 whole host of measures that are actually concrete  
8 metrics around not only enrollment -- because I  
9 want to say, again, that we do not view engagement  
10 as simply a way to increase the numbers of people  
11 that are recruited. I think that's a kind of  
12 baseline. And then I think we're really looking at  
13 how do people become engaged and asks the questions  
14 that are meaningful to them?

15 So, cement or cementless may not be a  
16 critical question to them, or at least one that  
17 they yet understand. And so, there are several  
18 stages toward that kind of awareness and growth  
19 understanding. What we're looking for is an  
20 engaged public that then is ready to be engaged in  
21 these various projects. And whether or not the  
22 better path is to have the orthopedists enroll them

1 versus robust patient engagement process is going  
2 to be part of what we measure.

3 I would also say that some things will be  
4 done in a traditional manner and we have to say to  
5 ourselves, are we happy with the 3, 4, 5, and 6  
6 percent enrollment rates that we currently have.  
7 And if we are, then I think that's great in that  
8 particular -- if that's all we need in a particular  
9 area, then that's super.

10 In most cases for CER I think we're really  
11 saying, what are the important questions for  
12 patients? How do we get them to understand how  
13 they can be part of the process of explaining  
14 those? And do more than just sign up as a metric  
15 of their engagement.

16 I don't know what those measures are yet  
17 because that is part of the work of the committee  
18 is early on to establish the measures that will  
19 give us some sense of that.

20 And the last thing I'll say is, for  
21 PCORI/PCORnet overall -- and I am in the Co-PI  
22 position actually working on both CDRNs and PPRNs

1 for engagement, network, and commons, we are  
2 looking at what are the dashboards that we need to  
3 have that do measure engagement, participation,  
4 true relationship, and the growth of participation  
5 in a meaningful way. And we are beginning to have  
6 some of those metrics but we don't yet have those  
7 nailed.

8 CHAIRMAN NORQUIST: Allen.

9 DR. DOUMA: Thank you both very much. As  
10 you know, I in particular but this whole Board is  
11 really strongly engaged in engagement. We think  
12 it's critically important.

13 One of the challenges that many of us face  
14 is when talking to the outside world about, so you  
15 do engagement, so what? Can you talk about PCORI's  
16 research strategy, overall strategy, and finding  
17 how we're going to measure the impact of engagement  
18 on CER and even mores on better health outcomes?  
19 What is that plan that we have in place at this  
20 point in time?

21 MS. SHERIDAN: Okay, Lori Frank and Laura  
22 Forsythe have offered us ongoing presentations on

1 engagement in CER at PCORI, but I can share that  
2 right now what we're seeing is, you know, with the  
3 impact at various touch points along the way in the  
4 process of research in terms of how many patients  
5 and stakeholders are engaged in determining the  
6 research question. How many are engaged in  
7 developing and determining comparators and  
8 eligibility criteria -- so we're tracking that  
9 right now. We're not at the end yet because as you  
10 know, our research is still underway.

11           But, we are tracking it and there -- and I  
12 think you've heard some of these. There are some  
13 outstanding presentations that are showing us right  
14 now the impact of engagement in the process of  
15 research. And something we're having ongoing  
16 conversations about how we're going to track this,  
17 for example -- something that we're currently  
18 talking about is are we developing trust through  
19 this process by engaging our patients and our  
20 stakeholders and will that help feed the  
21 implementation once we have those outcomes?

22           So, that's where we are right now. And in

1 terms of measuring engagement to our re-enact --  
2 and then in our engagement activities, we have a  
3 whole set of different measures and metrics.

4 DR. DOUMA: I would just suggest that we  
5 have a more defined research protocol or research  
6 strategy with regard to when we do get outcomes.  
7 And in particular, what outcomes are we looking at  
8 and various research that we're now funding will be  
9 most fruitful in determining the impact of  
10 engagement.

11 I don't think we ought to wait until we  
12 have outcomes before we decide how we're going to  
13 get the research done.

14 CHAIRMAN NORQUIST: Okay, I don't see any  
15 other tent cards. Let me make a point and then  
16 I'll make a question.

17 Sharon, I thought perhaps what you would  
18 say about recruitment -- it's not just about the  
19 numbers, it's about the type of patients that you  
20 get. I think that one of the key things that could  
21 be different is a broader representation. Because,  
22 sure, orthopedic surgeons might get you but the

1 type of patients you get might be very specific and  
2 homogeneous, if you will. So I think one of the  
3 opportunities here is not just the numbers but the  
4 broad representation of patients.

5           So, that leads to my second point and kind  
6 of question, which is as someone who has worked a  
7 lot with under-represented populations, often have  
8 been taken advantage of. And so, I wonder how  
9 you're going to address this issue of the certainty  
10 that the people who are the participants that you  
11 engage really feel an ownership and a protection,  
12 if you will, on how that's being dealt with.  
13 Because that's really critical. If this is going  
14 to survive and really be a new way of doing  
15 business and getting broader populations, that  
16 really has to be attended to.

17           MS. TERRY: So for PCORnet, one of our  
18 kickoff activities is this trustworthiness meeting  
19 in which the two days, the speakers are the people  
20 who had come from the communities who have been  
21 through the exact kinds of things you've described.  
22 So, the family of Henrietta's Lacks, Ruha Benjamin

1 who is known for her work in disparities and  
2 engagement, other individuals, the Havasu Tribe, et  
3 cetera will be talking to us about here's what you  
4 need to be doing to enable a relationship between  
5 you and the communities you need to work in. We  
6 cannot come from our top-down positions and expect  
7 to helicopter in, as we well know, and instead I  
8 think we really need to be creating relationships  
9 in the very communities that need to be empowered  
10 to not only just be invited to the table, but for  
11 them to be starting to set those tables.

12 MS. SHERIDAN: And I would like to just  
13 add to that what we're doing in PCORI. That again,  
14 I think we're going to complement each other as we  
15 grow in this direction. That we've got some  
16 engagement awards that are specifically to some of  
17 the underserved communities where we really want to  
18 build trust. We have Pastors 4 PCOR in Chicago,  
19 and we have others that are really bringing in  
20 communities to help them understand their  
21 opportunity in research. So again, we're  
22 developing tools, our engagement officers are

1 collecting best practices and our PCORI portfolio  
2 on this very issue that we want to share with  
3 PCORnet and vice versa.

4 MS. TERRY: And also, Gray, two of the new  
5 PPRN, at least, are extremely good at this. One is  
6 PrideNET which is about 150 gay, lesbian, bisexual,  
7 queer, transgender individuals across the United  
8 States in coalitions. They're working across many,  
9 many communities including the homeless, et cetera.  
10 And then another CPPRN, which is a community PPRN  
11 that's done excellent work with homeless  
12 individuals and has an amazing rate of 97 percent  
13 participation rate of homeless and indigent people  
14 in the projects that they run. So, we're hoping --  
15 and we are already -- learning a great deal from  
16 them.

17 CHAIRMAN NORQUIST: Great, thanks. So, we  
18 look forward to seeing that. Harlan Krumholz.

19 DR. KRUMHOLZ: Yes, I just wanted to  
20 commend the comments and presentations. The words  
21 the Chairman just articulated I think are so  
22 important -- and Sue as well -- but I know Sharon

1 has been pushing these concepts to citizen science  
2 for a long time.

3 I want to just say that the notion of  
4 partnership -- these are test-able. Barbara, you  
5 were raising this question of whether we should  
6 test some of these ideas, but there's also just a  
7 sense of what's right, you know? In terms of the  
8 respect and honoring of people who are involved in  
9 the research. The understanding that they're  
10 bringing to the table things of importance.

11 And I agree with you, Gray, it's about  
12 who. But it's also about what it feels like to be  
13 in these studies if you are expecting to be part of  
14 the team, you are expecting to hear what the  
15 results are at the end. You're expecting not just  
16 collecting data from, but actually being told  
17 you're part of an important quest to try and  
18 generate that knowledge.

19 I do think we need to be collecting data  
20 about this because in the end, these are complex  
21 interventions. And even though we can check the  
22 box, we can be doing it poorly or be missing an

1 active ingredient that's very important.

2           And so, I'm firmly committed to the course  
3 but I do believe as a learning organization this is  
4 an important piece of this. Both of you got into  
5 this because of personal experiences and have  
6 contributed so much to the world, turned something  
7 that was very challenging into something that  
8 benefited many other people. There's good in that,  
9 and we need to be able to foster that and create  
10 those opportunities. But we also need to figure  
11 out how we can do it in a smart way. And I think  
12 the notion for this Board should be about how we  
13 can support the meta-studies around -- so we're  
14 supporting the studies in the middle but we should  
15 also be funding some studies that are studying the  
16 way which we're conducting the work.

17           I know Mike has already done good work  
18 about studying the peer review process, for  
19 example. Those are the kind of things that I hope  
20 will come out of PCORI that should be there. In  
21 the course of doing this we should be building  
22 studies of independent people, not those of us who

1 are sold and bought and believe in it so deeply,  
2 but people who may even have an independent nature  
3 to them so that we can get really fair assessments  
4 of these things. And I think our investment there  
5 could also generate a lot of -- a good legacy for  
6 PCORI. It's not -- we've learned something  
7 negative. We're not going to stir off the notion  
8 that this is the right thing to do, but maybe we  
9 can do better. I think that's going to be an  
10 important part of our work.

11 CHAIRMAN NORQUIST: Barbara.

12 DR. McNEIL: I agree with you, Harlan.  
13 And I wonder if that is the case, and I think it  
14 should be the case. You're amplifying on this  
15 comment suggestion, what is the value of this and  
16 how do we prove it? Because if we can't prove it,  
17 it's really not going to last, no matter how good  
18 it is and how honorable and how right it is to do.  
19 People are going to ask.

20 So I wonder if when you're thinking about  
21 your engagements and your areas with your various  
22 groups, you might think about one particular

1 disease or syndrome or whatever. You talked about  
2 some cross-disease items at breakfast this morning.

3           Okay, suppose we got a group together to  
4 discuss hip arthroplasties or atrial fibrillation  
5 or pain or whatever. What exactly would we be  
6 measuring and how would we look to see if it led to  
7 an expanded network, as Harlan suggested? And  
8 really drive to doing that.

9           MS. TERRY: Great suggestion, Barbara.  
10 So, we did about maybe -- I don't know, six weeks  
11 ago -- polled the CDRNs and PPRNs around those very  
12 questions. Within the disease context, what are  
13 the questions that you've stood up to answer and  
14 how are you going about answering those? To start  
15 to look at what are the synergies across our small,  
16 100 organizations, 62 PIs, PCORnet. And we are  
17 discovering amazing synergies within disease areas  
18 that I think will lend a kind of robustness to  
19 building the networks that Harlan was talking  
20 about.

21           CHAIRMAN NORQUIST: Bob Zwolak.

22           DR. ZWOLAK: Thank you. It was a very

1 nice presentation. I'd obviously buy into the huge  
2 importance of engagement.

3 My question has to do with types of  
4 disorders and age, because I have the sense there  
5 must be an enormous variation in the likelihood of  
6 succeeding in the engagement realm based on the age  
7 and disease burden of the people you encounter. In  
8 my -- every day, I see people who are 70s, 80s --  
9 it's not unusual for 80 to be my median age in  
10 clinic, and those people basically just want to  
11 know what they have to do to get better.

12 And when I sit there thinking about my  
13 role in PCORI and then I go to clinic and I see  
14 these poor people dragging in I say, okay, how are  
15 we going to energize -- who do we engage? What's  
16 the secret sauce to some of these really difficult  
17 populations?

18 MS. TERRY: So I'll answer and I'm sure  
19 Sue has an answer as well.

20 My mom died last week of Alzheimer's  
21 disease, so I have an acute sense of what it means  
22 for some of these conditions where we're dealing

1 with either elderly population, people with  
2 dementia, people with just a fatigue that doesn't  
3 really allow anything else. So, we can't say,  
4 okay, engagement for you is you should tweet twice  
5 a day and, you know, that we really have to be very  
6 realistic.

7           So, I think we should look at caregivers  
8 very much. I think we should stop thinking about  
9 just the pro band, and the families, the  
10 communities, the neighbors are also who we're  
11 talking about when we say "participants" and when  
12 we say "engagement".

13           I think we also need to say, let's not  
14 burden people further, but also let's not be  
15 paternalistic. So for me to say all 80-year olds  
16 should not be engaged would disregard my mother-in-  
17 law who is 85 and wants to be engaged in her own  
18 healthcare and is frustrated at a recent experience  
19 with breast cancer.

20           So, let's gauge things with people where  
21 they live, where they are -- which we actually need  
22 to do for most populations. And then particularly

1 when we come to people who are decisionally-  
2 impaired in some way, to find ways to engage the  
3 community around them in a respectful way. But we  
4 are not talking about putting more burden either --  
5 the other piece I think we absolutely have to talk  
6 about as a clinician that we often forget the  
7 clinician in our conversations, and we really need  
8 to think about how do we support the clinician in  
9 engagement as well.

10 MS. SHERIDAN: And just to add to that.  
11 Sharon said it beautifully, in that we see several  
12 of our PCORI projects around the elderly -- our  
13 falls project that we have in improving healthcare  
14 systems, one that's keeping patients or the elderly  
15 at home rather than going into long-term care. So,  
16 we're seeing engaged patients, consumers in their  
17 80s. We have some patient partners in their 80s  
18 that are involved in PCORI.

19 So, I think the word is opportunity. The  
20 opportunity is there, the invitation is there. We  
21 work with several patient organizations and  
22 caregiver organizations, like Sharon said, to offer

1 that opportunity. And if people 80s, 90s want to  
2 be engaged, they're engaged. If their children are  
3 engaged, their caregivers -- so, that opportunity  
4 is always open at PCORI.

5 CHAIRMAN NORQUIST: Well, thank you both  
6 very much. That was a wonderful presentation. I'm  
7 sure we'll be hearing more about the outcomes  
8 later. So, thank you.

9 Sue, would you bring the thing back here?  
10 Thanks. The slide control.

11 So, the next item is the Executive  
12 Director's Report and the End-of-Year Dashboard  
13 review. So, Joe Selby, our executive director,  
14 will do that session.

15 DR. SELBY: Thanks, Gray. And this first  
16 director's report is going to be very brief. There  
17 are two pictures that I'd like to share with you.  
18 Each one of them has affected me greatly in the  
19 last few weeks to months, and affected other staff  
20 as well. They're both big ideas and big thoughts  
21 that we need your involvement with.

22 So, here's the first one. Oh, I showed

1 you both at the same time. That was a mistake.  
2 Here's the first one. This is just a chart of our  
3 revenues to the PCOR Trust Fund in green and our  
4 commitments throughout the first five years of our  
5 existence. So, five years is a little bit of a  
6 stretch because we weren't able to begin funding  
7 until just -- until May of 2012. But in that time  
8 frame we committed \$1.2 billion. We now have --  
9 we're more than halfway. This is kind of part of  
10 the message. We are more than halfway through the  
11 Congressionally-approved lifespan of the first part  
12 of PCORI.

13 We have committed about half of our  
14 resources -- and actually, if you look at that \$1.3  
15 billion you can subtract out over \$100 million for  
16 the four targeted PFAs that you approved I think at  
17 the September Board meeting, in the last couple  
18 months -- actually, it was before the September  
19 Board meeting. Those PFAs on the use of opioids,  
20 on the use of novel oral anticoagulants, on the  
21 treatment of severe depression, and on multiple  
22 sclerosis have been posted and letters of intent

1 submitted. So, you might reduce that to \$1.2  
2 billion. So, there's two ways to look at it.

3 We still have a lot of committing left to  
4 go, and on the other hand, it is a finite amount of  
5 money. If you think about how much we have funded  
6 in the term of -- in terms of the targeted funding  
7 announcements, the pragmatic clinical studies, and  
8 the broad awards, that's a finite number of  
9 projects, and that means that we've got a limited  
10 number of projects left to fund.

11 And that just simply is background  
12 information for ongoing discussions about how we  
13 make the best commitments. About how we ensure  
14 that the research that we attract, solicit, and  
15 ultimately fund is as relevant to the needs of  
16 patients and other stakeholders as it can be, and  
17 as exemplary as it can be of what an organization  
18 like PCORI is interested in and does fund.

19 So, you have to hold those two thoughts in  
20 your mind at one time. We have a lot of  
21 commitments to make and those commitments are  
22 limited. You also see the tapering of the blue

1 bars. It is a lot more. We decided this early on  
2 that we don't want to be committing a lot of money  
3 in 2019. We'd prefer to have it more in place  
4 earlier. So, that's another thing to keep in mind.

5           And I know that the SOC will be thinking  
6 about this. It always has, it always will. But I  
7 think that it's been energized by looking at  
8 pictures like this to involve themselves even more  
9 deeply in making sure that we're doing everything  
10 we can to get to meaningful research in as timely a  
11 way as we can.

12           So, that's the first thought.

13           DR. DOUMA: Joe?

14           DR. SELBY: Yes.

15           DR. DOUMA: Can we ask questions as you go  
16 along so you don't have to jump back?

17           CHAIRMAN NORQUIST: Do you want to make  
18 this point before you ask the question, or do you  
19 want to let him ask --

20           DR. SELBY: No. This is a different  
21 point. So, sure.

22           CHAIRMAN NORQUIST: Go ahead.

1 DR. DOUMA: Allen Douma. Just on the bar  
2 graphs you were just looking at. Two things. One,  
3 the out years commitments. Can you talk about how  
4 we came up with those numbers? And also just  
5 looking at the bar graphs themselves, it looks like  
6 our revenue is greater than our commitments through  
7 the life of the organization. Can you talk about  
8 that?

9 DR. SELBY: Well, that shouldn't be.  
10 Those should add up, and I suspect that they do.  
11 And when you say "out years" you mean the remaining  
12 years up to 2019 or are you talking about --

13 DR. DOUMA: Yeah.

14 DR. SELBY: Sometimes we talk about the  
15 years beyond 2019 as the out years.

16 DR. DOUMA: No, '16, '17, '18, '19. Where  
17 do we come up with those commitment numbers?

18 DR. SELBY: Those commitment numbers have  
19 been with us since about 2013, was the first time  
20 that we -- Christine Goertz, go right ahead.

21 MS. GOERTZ: Thanks. Christine Goertz,  
22 chair of the SOC.

1           All of these numbers are numbers that  
2 we've been looking at our budget and projecting now  
3 as far as our research funding strategy goes, for  
4 the last at least couple of years, right to the  
5 end. And so, we -- remember the research funding  
6 strategy that we looked at last year in our retreat  
7 that had basically all of these numbers in it. So,  
8 when we're -- and not only do we have this -- when  
9 we're looking at our revenue and our commitments,  
10 we also have some targeted idea of how much we  
11 might want to spend on targeted funding  
12 announcements in our pragmatic trials.

13           And so, the main agenda item for the SOC  
14 tomorrow is to be re-looking at this -- at our  
15 research funding strategies from this perspective  
16 and seeing if we want to make any changes from what  
17 we've -- that we would want to recommend any  
18 changes to the Board based on the -- you know, the  
19 ever-growing knowledge that this is not -- we don't  
20 have infinite money and we want to make sure that  
21 we're making the very best choices possible.

22           DR. DOUMA: Joe, the reason I mentioned

1 about the revenue commitment mismatch -- if you  
2 look at the middle two columns where the  
3 commitments are somewhat higher than the revenue,  
4 almost everywhere else it's the same where the  
5 revenue is significantly higher than the  
6 commitment. So that's why it looks like it's not a  
7 zero sum game up there.

8 DR. SELBY: I agree with you. Not quite  
9 sure how that came to be, but you're absolutely  
10 right that the green bars, if you added them up,  
11 should equal the blue bars.

12 Well actually, no, that's not true.  
13 You're subtracting -- we're not showing here the  
14 non-commitment portions of our expenditures. So,  
15 things like keeping the lights on.

16 DR. DOUMA: Oh, okay. So this is just  
17 research --

18 DR. SELBY: Yes, this is just research  
19 dollar commitments. Right.

20 DR. DOUMA: Got you.

21 MR. BECKER: And I think, Joe, there are  
22 out years, right? So some of these dollars could

1 have been continued to get funded '20, '21, '22 --

2 DR. SELBY: There's no new commitments  
3 though Larry. That's right.

4 MR. BECKER: Right.

5 CHAIRMAN NORQUIST: [Off microphone.]

6 MS. GOERTZ: New commitments.

7 DR. SELBY: Both the revenue and the  
8 commitments end in 2019, at the moment.

9 DR. KRUMHOLZ: If I could just say very  
10 clearly for anybody that's listening in. And this  
11 is directly to Alan's question, I think. It is not  
12 our intent to commit less as of the end of 2019 --  
13 to commit less than the full amount of our  
14 revenues. In other words, the idea is not to keep  
15 some reserve or something of that sort, except to  
16 the extent that we need to have dollars to pay for  
17 the tail on awards that are made prior to the end  
18 of 2019, as we continue to administer those out  
19 until the conclusion of those particular awards.

20 DR. SELBY: Good, so this is just  
21 background to keep in mind. I think it reflects a  
22 rather subtle change in our awareness of the entire

1 context in which we operate, and it will play out  
2 at the SOC, among other things as Christine  
3 mentioned. Do we have the right amounts in the  
4 broad, pragmatic clinical studies, and the targeted  
5 announcements?

6           So, completely different picture,  
7 completely different topic, equally big topic.  
8 This is about PCORnet. And there's a lot of things  
9 we can say about PCORnet, from how we engage  
10 patients and clinicians and other stakeholders to  
11 make it a truly patient-centered clinical network,  
12 to how we support individual projects in it and the  
13 investigators affiliated with the different  
14 networks.

15           But another part -- and I really want you  
16 all to be aware of this, and I know it was in your  
17 thinking when you first approved the funding for  
18 PCORnet -- is PCORnet would become, among other  
19 things, a part of a national clinical data research  
20 infrastructure that would mean that within the  
21 United States we can conduct more, greater numbers,  
22 larger patient-centered comparative effectiveness

1 questions. But while you're at it and you built a  
2 network, you can also conduct a lot of other types  
3 of research that has the stamp of patient and  
4 stakeholder engagement in governance, has the stamp  
5 of highly-standardized data, and has the stamp of  
6 being more efficient and more affordable than the  
7 models which we currently have, which really  
8 severely restrict the amount of research that can  
9 be done.

10           So, this is a picture that was presented,  
11 actually, not by PCORI but by Janet Woodcock from  
12 the FDA at a meeting that was called a "summit".  
13 And it convened the leaders of the FDA, including  
14 the deputy commissioner who is now nominated to  
15 become the commissioner, Rob Califf, but also the  
16 heads of both CDER, Drugs; CDRH, Devices and  
17 Diagnostics; and CBER, the Biologics. Those three  
18 centers, their leaders were also there.

19           From the NIH we had top leadership and  
20 persons of Mike Lauer, Josie Briggs, who is acting  
21 director of the Precision Medicine Initiative, and  
22 Petra Kaufmann, who is from NCATS and runs the

1 CTSA's. Critical fixtures also in any national  
2 research infrastructure.

3           And this was Janet's vision, that through  
4 -- by creating a common data model in various  
5 sectors of healthcare enterprise, including in  
6 providers the hospitals, physicians, and integrated  
7 delivery systems and bringing patients along -- and  
8 if you don't recognize it, that is PCORnet -- as  
9 well as in the upper part of the circle, the  
10 payers, the public and private payers. And if you  
11 don't recognize that, it's essentially Sentinel.  
12 So, Sentinel is the FDA's major contribution to a  
13 national clinical research enterprise, mostly  
14 focused on safety, but increasingly interested in  
15 being able to do comparative effectiveness as well.

16           Now, the beauty is that we chose the same  
17 common data model as Sentinel. So we are now  
18 working very hard with our announcement that  
19 invites health plans to join us in PCORI in  
20 collaborative research efforts using the common  
21 data model and identifying overlapping patient  
22 populations to further this notion of a high

1 quality research network operating at a national  
2 level of 10s if not 100s of millions of persons.

3           Critical realization is that you can't do  
4 good research without both electronic health record  
5 data and claims data. Most settings in the United  
6 States don't naturally have both of those. That's  
7 why the linkage between PCORnet, on the one hand,  
8 and Sentinel on the other is very crucial.

9           The third critical player in any national  
10 research enterprise would be registries. There are  
11 hundreds if not thousands of registries, many of  
12 them extraordinarily rich, detailed information on  
13 many people who either have a condition or who have  
14 had a procedure. This enterprise needs to be able  
15 to work with those registries.

16           Once you have that distributed national  
17 information network, any number of users can work  
18 with it. The FDA can continue doing its  
19 surveillance through their coordinating center.  
20 Industry can sponsor medical product safety  
21 research through the same coordinating center or  
22 another coordinating center. Any coordinating

1 center should be able to submit queries and get  
2 results, provided the network and other patients  
3 and governing units in the networks approve the  
4 research.

5           Clinical research, whether it's funded by  
6 NIH or it's funded by industry can do the same  
7 thing. Comparative effectiveness research founded  
8 by PCORI, certainly, but also by others, can use  
9 this national data network. But it's also useful  
10 for surveillance and it's also useful for  
11 monitoring quality of care.

12           So, this vision is a vision that's shared  
13 now by the FDA, by the NIH, by PCORI. I want to  
14 say that the Reagan-Udall Foundation was also in  
15 attendance at this meeting, as was CMS and ONC and  
16 the Office of the Assistant Secretary for Planning  
17 and Evaluation.

18           So, it's an idea whose time has come.  
19 It's on the minds of a lot of people and PCORI is  
20 the first national enterprise to attempt to harness  
21 the electronic health records portion of it and to  
22 bring the patients and other stakeholders in along

1 the lines that we've just discussed. So, that's  
2 the second idea, I just wanted to mention. We will  
3 be talking about PCORnet at every meeting we have  
4 from here on out, and this is a part of the  
5 picture.

6 Yes, Sharon.

7 DR. LEVINE: Just a clarifying questions.  
8 When you say good research is hard to do without  
9 both claims and EHR data, do you mean on the same  
10 patients? Or do you mean --

11 DR. SELBY: On the same patients. So in  
12 other words, the electronic health record data is  
13 far superior for characterizing who the patients  
14 actually are at the time they get a particular  
15 treatment, and often for giving you the details of  
16 the treatment.

17 Once they leave that hospital, once they  
18 leave that doctor's office, the electronic health  
19 record has no claim to what happens to them  
20 afterwards. They may go to places that don't have  
21 the same electronic health record. But their  
22 insurers, whether they're public or private, tend

1 to learn about everything that happens to them.  
2 So, the payer data, the plan and Medicare/Medicaid  
3 data, they tell us who is still under observation  
4 and what's happening to them inside or outside the  
5 system.

6 Most of our studies are longitudinal  
7 outcome studies, so you need both.

8 Other comments? Okay, I see two. Yes,  
9 Ellen and then Harlan.

10 MS. SIGAL: So obviously very supportive  
11 of this and I'm extremely supportive of the  
12 synergies because I think they're really important.  
13 It just seems that with Sentinal, PCORnet, you're  
14 all -- we're all using the same people for  
15 methodology that the connection would just be  
16 absolutely critical and synergistic.

17 I know that FDA for a long time has talked  
18 about that. Janet -- and I know Rob has -- we're  
19 all on the same page. I guess what I don't  
20 understand are what the next steps are to see how  
21 these networks can combine and really have a  
22 critical mass and really have some outcomes. So,

1 how does this happen? What are -- other than  
2 saying there's a lot of synergy and we should work  
3 together, what should we do? What are specific  
4 steps?

5 DR. SELBY: Well, I think PCORI and  
6 PCORnet have a lot to do in bringing these health  
7 plans on-board and beginning to work out some of  
8 the tricky issues about how you actually do  
9 collaborative research when a series of providers,  
10 hospitals, delivery systems, and payers have to  
11 share data in order to conduct the research. So,  
12 that's a series of discussions and policy-building  
13 that has to take place.

14 The secret will be in conducting research  
15 that matters to both parties. But I think in the  
16 background, PCORI, DFDH, and NIH can create a  
17 favorable environment for that to happen. Can make  
18 it clear that this is a vision and in fact, one of  
19 the conclusions of that meeting in late October was  
20 that we would write a manifesto, which basically  
21 said on behalf of the player organizations there is  
22 a lot of energy. There is a conviction that this

1 is the way research needs to go.

2 Harlan.

3 DR. WEISMAN: Joe, in addition to evidence  
4 generation, which is shown here in terms of the  
5 power of the network, I wondered in the spirit of a  
6 continuous learning healthcare national system. We  
7 are evidence synthesis and evidence query -- how  
8 that fits into this, and could it fit into this?  
9 In terms of vision.

10 DR. SELBY: That's a good question. And I  
11 think, you know, if there's more of a linkage  
12 between those who generate the evidence, the  
13 notions of standardization, for example, of data --  
14 which underlay a capacity to actually do evidence  
15 synthesis -- could be furthered. I will say, I  
16 don't think there was a lot of talk about evidence  
17 synthesis at the summit, but it's a very good point  
18 that by having more unity at the time that  
19 questions are posed and data are collected,  
20 evidence synthesis should be furthered.

21 CHAIRMAN NORQUIST: Christine and then  
22 we'll go down this way and come back over to

1 Barbara.

2 MS. GOERTZ: Thanks. Joe, I was wondering  
3 at this meeting if there was any talk about the  
4 long-term funding future? I know that the NIH  
5 collaboratory Common Fund, funding is going to run-  
6 out at approximately the same time as PCORI or  
7 funding for PCORnet will also be termed out, at  
8 least for this initial phase at 2019.

9 I'm just wondering if there's any  
10 discussion about that and what impact that might  
11 have or what people are doing to think about  
12 additional funding sources?

13 DR. SELBY: Mike, would you care to  
14 comment on that from the collaborator point of  
15 view?

16 DR. LAUER: I think part of the thinking  
17 here is that -- I think this is a lot of what was  
18 said during that seminar on October the 28th. Is  
19 that if this model works, the model is already  
20 happening, to a large extent. Many of the trials  
21 that FDA is overseeing is based on this common data  
22 model.

1           So, if this model really works, then it  
2 would be possible to, in Rob's words, enroll 10  
3 times as many patients at one-tenth the cost, even  
4 if you can only do a small fraction of that. And  
5 that will then enable this business to move  
6 forward.

7           I think the idea here is to develop a new  
8 business model for conducting clinical research.  
9 Not just in our sphere, not just in the NIH sphere,  
10 but also through the entire sphere, so that it's  
11 possible to do a lot more research for a lot less  
12 money, and a lot faster.

13           MS. GOERTZ: I have one follow-up  
14 question. What does that mean as far as barriers  
15 to access for investigators? If this is going to  
16 be the new model, how easy will it be for  
17 investigators to have access to this data or to be  
18 able to --

19           DR. LAUER: -- knock down the barriers and  
20 make things a lot easier to do this right.

21           DR. SELBY: I think that, you know, we are  
22 to some extent swimming upstream on that issue.

1 But the Board's support of this along with support  
2 from other agencies will be important and I think  
3 we'll prevail.

4 CHAIRMAN NORQUIST: So, Harlan, Alan, and  
5 then Barb, and we'll stop this so we can move on to  
6 the next topic. Okay, Harlan?

7 DR. KRUMHOLZ: I have just one comment and  
8 then a question. You know, I think this is really  
9 important to align it. I just want to make a  
10 comment that I think distributed data models have  
11 yet to show their worth. The Sentinel initiative,  
12 by the way, has received a lot of funding and has  
13 yet to really demonstrate what its home runs are.  
14 The difference between being able to collate data  
15 like you can in the VA and being able to look at it  
16 at a distance is an experiment and an experiment  
17 which I think should show whether that's going to  
18 work or not and produce the kind of knowledge that  
19 we hope that it would.

20 Just a minor comment again is that this is  
21 something we need to study carefully because if  
22 that's not going to work we need to know as soon as

1 we can and it needs to be tested in various  
2 different ways. You're being smart about aligning  
3 with this group, I just want to be sure we're --  
4 you know, we should be providing some of the funds  
5 to study that as well.

6           One question I had about this is, so we  
7 have all of this data now. What is our position on  
8 the degree to which patients know that their data  
9 is being used in research from all of these places?  
10 And as it gets used in various different ways, what  
11 are the assumptions about their knowledge and  
12 involvement and engagement? Is it being done in  
13 front of them or behind their backs?

14           DR. SELBY: Good question. You know, I  
15 think that our current position is that a lot more  
16 dialogue has to be had with patients about  
17 practices that have been going on for 40 years. I  
18 mean, this is nothing new here -- and about the  
19 value of the research that comes from that -- the  
20 amazing value of some of that research. This  
21 trustworthiness meeting that Sharon put on the  
22 table is one of the forum in which that will be

1 discussed. We really need to have ongoing dialogue  
2 with patients about that.

3 DR. KRUMHOLZ: And I just want -- so a  
4 tweet that I did yesterday. There was a newspaper  
5 article that said that Watson Health was touting  
6 that they had 100 million electronic health  
7 records. And so I just tweeted that's great, I  
8 wonder how many of those 100 million know you have  
9 their health records.

10 You know, I think we can be in sort of an  
11 important position of saying that there are ways to  
12 do this that people can know about it and agree to  
13 that can still be very strong. I know you're fully  
14 on-board about this so it isn't a criticism; it's  
15 just a comment about the kind of role that PCORI  
16 can play in helping to bring this dialogue forward.

17 CHAIRMAN NORQUIST: Excellent point,  
18 Allen.

19 DR. DOUMA: You say in your report that we  
20 read -- previous material that says only by  
21 bringing these two resources for patient capture  
22 into both networks will we be able to maximize the

1 value of either. Question is, can you characterize  
2 how bad it is if we only have EHR so we're not  
3 maximizing -- I'm not sure what that means.

4           And secondly, a follow-up to Ellen's. Do  
5 we have a timeframe in which we think it will  
6 happen? I know we're working on it hard, but  
7 things like this take a long time normally. How  
8 long do you think it will take for us?

9           DR. SELBY: We'd be pretty limited in the  
10 kinds of CER studies we could fund if we don't have  
11 claims data.

12           Now, let me say that many of these  
13 networks have been trying to capture claims data on  
14 their own, and some of them have succeeded nicely.  
15 So parts of our network -- and then parts of it had  
16 claims data. For example, the integrated delivery  
17 system had claims data from day one. So, in some  
18 quarters of PCORnet you can do good longitudinal  
19 outcomes research right now. But in others I  
20 think, you know, it is going to take a linkage to  
21 Sentinel systems to get claims data on the majority  
22 of patients and that's going to take probably two

1 or three years and it will move ahead from project  
2 to project. So we will not -- nobody's going to do  
3 it en masse. It will be IRB-approved project after  
4 IRB-approved project, and building the case and  
5 learning as we go.

6 CHAIRMAN NORQUIST: Barbara.

7 DR. McNEIL: I think this is a great  
8 model. I have three comments. The first one  
9 relates to something Harlan just said, and that is  
10 the Sentinel network has received a lot of money.  
11 And from a personal perspective, I would really  
12 like to know what its successes have been because I  
13 actually don't think there have been too many. And  
14 if there haven't been a lot, I'd like to know why.  
15 And I'd also like to know -- because it will affect  
16 this whole model -- what the barriers to entry are  
17 or are not for that particular activity in your  
18 upper left-hand corner.

19 So that would be my first comment. The  
20 second one is in terms of the FDA's involvement, I  
21 think we're going to be a little bit stuck on this  
22 model for Devices until a unique product

1 identifier, because all devices aren't the same and  
2 a hip is a hip even though it might be different  
3 from three or four different manufacturers. So we  
4 just have to put that in mind when we think about  
5 this.

6           And the third comment is when we think  
7 about this model it's my understanding that the two  
8 largest groups that supply electronic medical  
9 records are Epic and Cerner and I suspect they have  
10 -- I don't even know, somebody here would know what  
11 percent of the market they have. But it's huge.  
12 Sixty or 70, Harlan? And it's also my impression  
13 that Epic isn't willing to at this moment aggregate  
14 up all of their electronic health records from say  
15 their 50 percent or 40 percent of their enrollees  
16 up to some central database.

17           So if they're not willing to do this, it's  
18 not exactly clear to me how Part News is going to  
19 pal up with Yale, for example, in terms of sharing  
20 data. I just don't know how we would do that. So  
21 I think some of these details will be very  
22 important work out as we move forward on this

1 model.

2 DR. SELBY: Let me just say, you're right  
3 and those are all important issues, but I don't  
4 think we have time to -- that's an hours' worth of  
5 conversation, interesting conversation.

6 CHAIRMAN NORQUIST: She's just making a  
7 comment about the importance. And then, Ellen has  
8 the last word here and then we'll move on.

9 MS. SIGAL: That would be so nice to have  
10 lost word. No, specifically I think there is a lot  
11 of synergy that's tangible. I think, Barbara your  
12 question about devices or statement about devices  
13 is correct. I do think with Sentinel and PCORnet  
14 and Reagan-Udall with IMEDS, that is an accessible  
15 network that can be linked and there are very  
16 tangible outcomes that can come out of it, but this  
17 is a longer conversation.

18 DR. SELBY: Two really good points about  
19 Sentinel. Number one, it wasn't set up just to do  
20 published research. It's much more of a  
21 surveillance tool for the FDA in much of their work  
22 goes on behind the scenes. I think if you talk to

1 the FDA they're quite pleased with the way Sentinel  
2 has been able to really rapidly turn around  
3 analyses that help them know whether to be worried  
4 or not, so that's one point. And the second is,  
5 the point I made before that without EHR data  
6 Sentinel cannot create some of the really rigorous  
7 studies that could show up.

8           Okay, so I just want to briefly mention  
9 four meetings just so that you know that we are  
10 continuing to engage at a frequent and high level.  
11 There is a meeting coming up in December, and also  
12 to invite Board members to tune in to most of these  
13 meetings by webinar or to come in person. A very  
14 interesting meeting December 7th. Pardon? That's  
15 not right is it? December 17th, I think it must  
16 mean. I apologize.

17           CHAIRMAN NORQUIST: Tenth.

18           DR. SELBY: Tenth. Good we have Robin  
19 here. Thank you. So, this is a topic that is  
20 really highly relevant to PCORnet and to the  
21 PCORnet Sentinel collaborations if and when they  
22 happen. It's really originated from the

1 Methodology Committee, if I understand it right  
2 Robin.

3           It is not an open meeting, but the  
4 transcript of the meeting will be posted on the  
5 PCORI website very shortly after the meeting  
6 happens. The second is an expert stakeholder  
7 working group considering the question of back  
8 pain, and particularly the question of comparative  
9 effectiveness of surgical versus nonsurgical  
10 approaches to chronic back pain. In this is  
11 actually the third expert work group we've had on  
12 back pain in we will have a range of stakeholders  
13 to consider the very interesting question of what  
14 subgroups of back pain patients is this really most  
15 relevant to? In other words, there's some patients  
16 who there would be probably little argument would  
17 benefit from back pain surgery. Some in whom it's  
18 kind of clear that they just shouldn't be taken to  
19 surgery but for the patients that we invite, what  
20 subgroups should they come from and what subgroups  
21 should we be careful to measure?

22           So it's all part of refining the back pain

1 questions before we bring them to the Board for  
2 review and approval in January. The meeting will  
3 take place in January, you will hear from us after  
4 this meeting. And that is a meeting that is being  
5 conducted with webinar capability for participation  
6 and details will or will be shortly on the PCORI  
7 website.

8           Next is the trustworthiness meeting, I  
9 won't go into further detail because Sharon already  
10 took you through it. That's January 19th and 20th.  
11 It's all about engagement. Similarly, all about  
12 engagement is a meeting on the 20th and 21st at the  
13 National Academy of Medicine. This is a follow-up  
14 to our 2014 meetings and we will be sitting down  
15 with health system and health plan CEOs to look at  
16 and prioritize a set of questions that PCORnet  
17 could help these system leaders address within and  
18 across delivery systems. So another open meeting  
19 that I would certainly invite your attendance or  
20 tune-in online.

21           CHAIRMAN NORQUIST: Harlan Krumholz.

22           DR. KRUMHOLZ: I was just going to ask

1 Joe, these are terrific and in particular the data  
2 quality. Is there any chance, you said it's not an  
3 open meeting but were going to get the transcript,  
4 why not stream it? You could make it so people  
5 can't ask questions and so forth, but I just think  
6 these are so important and will be so great to do  
7 that.

8 CHAIRMAN NORQUIST: Robin.

9 MS. NEWHOUSE: So the intent of this  
10 meeting actually came from the Methods Committee, a  
11 PCORnet subgroup around specific data issues. The  
12 data quality was one; Sally Morton led a group of  
13 PCORnet and other investigators to talk about those  
14 issues. So, it was intended to be more of a  
15 Methods discussion and try to understand the gaps  
16 are PCORI Methods could fill, so wasn't thought of  
17 but the question about why we can certainly take  
18 that back to the group.

19 DR. KRUMHOLZ: I'm certainly thinking that  
20 I would recommend my postdocs listen in. I mean, I  
21 just think there's probably a lot of wisdom and  
22 even if it's the dirty work of making sausage

1 that's the part that would be wonderful to show  
2 people how they are struggling with it.

3 DR. SELBY: We will definitely take this  
4 under advisement. I'm just going to -- in the  
5 interest of time move on and I don't know if I push  
6 a button now or if Bill does, but this is really --  
7 very much follows on the discussion that we have a  
8 Sharon and Sue, this is a product, a video made by  
9 researchers at the Center for Health Research in  
10 Portland about a large PCORI-funded project that  
11 they have had underway.

12 Here we go.

13 [Video shown.]

14 DR. SELBY: We showed this for two  
15 reasons. One, because it suggests again,  
16 reinforces the notion that research and clinical  
17 care will really change if we engage patients in  
18 both of those crucial activities.

19 The second is because it's a nice example  
20 of the importance to patients of the research that  
21 we approved at our last Board meeting on the  
22 treatments for patients who are currently with

1 chronic pain and on high doses of opioids, so for  
2 both of those reasons.

3 I will move ahead and just mention briefly  
4 what else is in store for the Board meeting today.  
5 We will have an end of the year Dashboard review  
6 just after this, and then a presentation on new  
7 data, new data elements, that will allow us to ask  
8 questions about our portfolio that we have not been  
9 able to ask to this time, so this is in response to  
10 a Board request. Lori Frank will be making that  
11 presentation.

12 Right after lunch, we will hear from a  
13 panel of patient stakeholders, including Marc  
14 Boutin from the National Health Council, Donna  
15 Cryer from the Global Liver Institute, and Celeste  
16 Castillo Lee from the Institute for Patient and  
17 Family-Centered Care, in our continuing series of  
18 engagement and dialogues with key stakeholder  
19 groups.

20 Then we will consider two new standards.  
21 This is standards for issuing public comment, and  
22 the second is revised Selection Committee Charter.

1           After the break, we will hear -- actually,  
2 I think at 2:15 is actually the Methodology  
3 Committee report. Sorry. A report of some  
4 analyses that Board members and staff members have  
5 been actively involved in on how our merit review  
6 scoring works, and then a proposal on what we have  
7 never really discussed, workforce training, but we  
8 have been -- it's mentioned in our legislation,  
9 much of the responsibility lies with AHRQ.

10           We have been talking with AHRQ. We have  
11 been talking with the Research Transformation  
12 Committee about possible activities in the area of  
13 workforce training.

14           The last item on the agenda will be open  
15 science, a presentation on progress we have made in  
16 moving from policy to procedure in open science,  
17 and wrap up with public comments.

18           I realize that we have gotten behind, even  
19 though we started ahead with those two pictures.  
20 They invited more discussion than we should have.

21           DR. SELBY: I'm going to try to go pretty  
22 fast through this Dashboard, although I will say to

1 you in advance, I am looking for new elements on  
2 the Dashboard. I love our Dashboard, but I'm  
3 getting a little tired of some of these boxes.  
4 Suggestions for making the 2016 Dashboard newer and  
5 even more compelling will be welcomed.

6 I am also going to show you some evidence  
7 again on the funding commitments, which will lead  
8 into a discussion about our approach to funding.

9 The same three yellow boxes as you have  
10 seen before suggests that we underspent in 2015  
11 compared to how much we had planned to commit in  
12 research funding. I want to say one thing about  
13 that, how much we planned or how much we budgeted  
14 for.

15 We always took the upper limit of when we  
16 said up to X millions of dollars, we always took  
17 the upper limits of that and added. Arguably, we  
18 shouldn't ever come quite to what we budgeted in  
19 the year. Nonetheless, there was somewhat of a  
20 shortfall, although you see we made up some  
21 dramatic distance in the fourth quarter of 2015.

22 Projects completed. Those are mostly the

1 pilot studies at this time, and basically after  
2 some adjustments of milestones and target dates in  
3 about half of them, those projects are all complete  
4 now, and we will have more information on that.

5           The bottom one again shows we also  
6 underspent in staffing and other non-research  
7 categories in 2015, and we have discussed that  
8 before.

9           I think elsewhere on here, I'll point you  
10 to the very middle box, which shows that the number  
11 of articles published by our awardees, PCORI funded  
12 researchers, has gone up quarter on quarter, and  
13 now they are appearing at the rate of well over 100  
14 per year, and I'm sure that will just continue to  
15 rise as more and more projects come to conclusion.  
16 Also, the number of papers written about or by  
17 PCORI has increased a bit in the fourth quarter.

18           Over in the upper right-hand corner of the  
19 milestones, we will drill down on that because you  
20 had a lot of questions last time about what  
21 happens, how do we monitor projects, and what is  
22 this milestone adjustment and other adjustments we

1 made.

2           The web views are important because this  
3 is on the uptake of methodology standards. These  
4 are web views to our website of the methodology  
5 standards. You will see they remain very high and  
6 even were higher in the fourth quarter, and this  
7 probably to a substantial degree represents  
8 applicants who were checking on our methodology  
9 standards.

10           The box to the right, the citations, is  
11 rather high as well. These are citations to a  
12 particular article, and I'll show you the article  
13 in a minute, written by the Methodology Committee  
14 at the end of 2012 as the standards first came out.  
15 That was in JAMA. That article continues to be  
16 cited.

17           This is a nice example of a project, a  
18 course. This is a health psychology course for a  
19 Master's program, and it zeroes in directly --  
20 there are 10 modules and six of them are focused on  
21 PCORI. They focus particularly on PCORI's research  
22 priorities. This is at Tulane.

1           It is nice because as you will see, we  
2 fund an amazing amount of research in behavioral  
3 health. This just shows year by year, these are  
4 annual commitments. We have moved dramatically  
5 from 2013 where about 80 percent of the funding was  
6 delivered in the form of broad, awards for broad  
7 announcements, to 2015, where well over 75 percent  
8 -- I'm sorry -- about 70 percent of our funding was  
9 either in the targeted announcements or the  
10 pragmatic clinical studies, these larger more  
11 focused studies.

12           Cumulatively, you see it begins to have a  
13 larger effect on our overall portfolio. Now, our  
14 portfolio consists of about 60 percent of broad's  
15 and about 40 percent targeted, but as you can see  
16 from the earlier annual trend, that will change,  
17 and the increasing proportion from here on out will  
18 be the larger more focused studies on big  
19 questions.

20           Just to remind you about the topic  
21 prioritization pathway that the SOC approved last  
22 year, the topics continue to move through that, and

1 they wind up either on the targeted PFA list or the  
2 pragmatic studies list as high priority questions.

3           This next slide, I like this slide a lot.  
4 It shows the progress of questions that are in the  
5 sort of intermediate stages, lists four and five on  
6 that pathway, to those topics that have been  
7 approved either for placement on the PCS  
8 announcement or for targeted PFAs in the middle  
9 column to those that have been funded, those topics  
10 funded through the targeted PFAs or topics funded  
11 from and approved through the pragmatic clinical  
12 studies initiative.

13           A lot of ideas moving through PCORI. We  
14 feel the pressure to move these through in an  
15 important way to be open to staff's late breaking  
16 questions that we have to be amenable to as well.  
17 This is the work of the SOC. They have a lot of  
18 work, and the work of staff.

19           This is the distribution of projects by  
20 topic. I think if back in 2011 we had decided to  
21 prioritize the diseases that we wanted to study, it  
22 would look probably a lot like what we wound up

1 with through a much more open process. Quite  
2 interesting.

3           The one thing that surprises me personally  
4 just a little bit is how mental and behavioral  
5 health has forced its way to the top of the  
6 distribution. I think it is really telling. I  
7 think it says that --

8           CHAIRMAN NORQUIST: Particularly in the  
9 last --

10           DR. SELBY: Where the problems are. It  
11 has nothing to do at all with the composition of  
12 our Board of Governors nor with its current chair  
13 person.

14           [Laughter.]

15           CHAIRMAN NORQUIST: By numbers, what is  
16 the --

17           DR. SELBY: Same thing, basically the same  
18 thing. The majority of our studies in our  
19 portfolio are clinical trials. I remember when we  
20 used to talk about how this would look, and it  
21 looks like in our peer reviewers and our staff and  
22 SOC, Selection Committee's judgment, that it often

1 takes a clinical trial to do good comparative  
2 effectiveness research.

3           This is a focus on the care continuum from  
4 prevention to screening, diagnosis, to treatment.  
5 We are still very heavy whether you look at it by  
6 number of projects or by the amount of funding,  
7 still very heavy on the treatment side. Most  
8 people are probably not too surprised by that, but  
9 I think Francis pointed out this one time, that we  
10 should probably be looking for more ways to fund  
11 more in prevention, screening and diagnosis.

12           This is just the way it has gone in terms  
13 of our programs. By design, more of it has gone to  
14 the assessment of prevention, diagnosis, and  
15 treatment options, CER, at the individual level,  
16 but improving health systems and addressing  
17 disparities actually have sizeable pieces of the  
18 total portfolio, reflecting their importance.  
19 Methods and communication dissemination research,  
20 again, they are small as much by design as anything  
21 else.

22           I think this is a pie chart that the SOC

1 will continue to look at and decide whether this  
2 makes the most sense.

3           You have seen this before. This is just  
4 simply the way we monitor the progress of projects.  
5 You will hopefully get more and more familiar. I'm  
6 still familiarizing myself with it, if that makes  
7 you feel any better. Green, yellow. Green is  
8 good. Red is really bad. Yellow and orange are in  
9 between.

10           The next slide just shows if you start at  
11 the bottom, that is quarter two, then going up  
12 quarter three, quarter four, you will find that the  
13 number of projects have increased, that the  
14 distributions are not too much different, maybe a  
15 little bit of a larger fraction in the green  
16 category, but a certain number in the yellow,  
17 orange and red as well.

18           The black box is number one. You had  
19 asked before about whether any projects have been  
20 terminated. One project each was terminated in the  
21 third quarter and fourth quarter. The reason we  
22 didn't tell you about the one in the third quarter,

1 at the end of the third quarter, is because we were  
2 still defining exactly what it meant to be  
3 terminated. Now that we have the definition, which  
4 is the notice of termination has been issued, we  
5 have one in each quarter.

6 We had a lot of questions last time about  
7 contract modifications. This shows the reasons for  
8 the modifications. We can modify a contract to  
9 remove or add milestones, and these are the percent  
10 of projects in each quarter that have had  
11 milestones modified.

12 The scope of work can be changed. It may  
13 just have been they were too ambitious and we  
14 ultimately agree mutually that the scope of work  
15 ought to be narrowed.

16 The period of performance has been  
17 lengthened, and I think the reason these are as  
18 small as they are is because it is still early in  
19 the life of many of these projects. I think the  
20 numbers will go much higher in terms of the number  
21 of projects in which we ultimately agree with the  
22 investigators that the period of performance should

1 increase.

2           Then a very small fraction, one quarter,  
3 where we agreed with the investigators that we  
4 actually needed a budget increase.

5           This is the pilot projects, just the pilot  
6 projects. The pie chart on the left shows almost  
7 half of them requested and obtained a contract  
8 extension. That is why you see most of those two  
9 year projects ending in 2015 instead of 2014.

10           This is probably not too unrealistic for  
11 what we are going to see long term with the larger  
12 projects, although because the pilots were limited  
13 to three years, there might be a little bit more  
14 reason for them to look for an extension.

15           The pie chart on the right just shows that  
16 given the extension, 88 percent of projects came in  
17 on time with the modified time line, still 12  
18 percent that had not completed at the expected end  
19 of the project.

20           This just shows you that projects will be  
21 terminating, this is a question that Allen Douma  
22 asks, as do others. You will see that 2016 is a

1 year in which we expect a number of projects, a  
2 number of our comparative effectiveness research  
3 projects, not the pilots, so the green bars, to  
4 terminate. 2017, a huge bolus, that will probably  
5 spread out a little bit in future iterations, and  
6 some of them might get modified to be terminated in  
7 2018 or 2019. Large number of --

8 DR. WEISMAN: Completed or terminated?

9 DR. SELBY: I'm sorry, thank you.  
10 Completed. Absolutely not -- I'm sorry to  
11 everybody including those listening at home.

12 DR. WEISMAN: Can I ask a clarification on  
13 completed? I guess it means -- are we meeting our  
14 statutory requirement of reporting results within  
15 the time frame of completion?

16 DR. SELBY: I think that process starts  
17 just at the time they are completed. That's  
18 another very important topic, we are setting up the  
19 infrastructure to do that right now, so yes, I  
20 don't think there is any concern here that we won't  
21 meet that requirement.

22 DR. DOUMA: Joe, quick follow up to that.

1 How much does it change that pie chart to see  
2 basically the first date on which we can see the  
3 results, and the follow on to that is can we have a  
4 list of those things specifically project by  
5 project?

6 DR. SELBY: I think that's a good idea.  
7 We can work to provide the Board with more  
8 information, maybe even be somewhat more  
9 informative on our website about when projects are  
10 expected to come to completion.

11 This is just the number of journal  
12 articles. This might be affected a little bit by  
13 the fact that we now have a full-time librarian who  
14 is very good, and she may be delving into and  
15 identifying those articles a bit faster.

16 I think it also is a real trend of  
17 increasing studies. This is year on year. The 110  
18 is -- the top blue line is articles in 2015, but  
19 2015 showed increases in every single category,  
20 articles by or about PCORI and articles that cite  
21 our mission and PCORI work, as well as funded  
22 research.

1           Among those funded studies, there really  
2 are a lot of papers published on the protocols for  
3 CER trials. This is just three of many where the  
4 investigators have taken the time to publish their  
5 protocols.

6           This is another more detailed look at the  
7 up tick of our methodology standards. These are  
8 data provided from JAMA, in fact. These are the  
9 number of citations of the methodology standards,  
10 the citations of this single paper on the  
11 methodology standards in JAMA in 2012. There is  
12 the reference at the top.

13           The number of citations, but also the  
14 number of views. That is a lot of views. The  
15 number of downloads, over 1,000 downloads of this  
16 article. People are looking for information on the  
17 methodology standards and finding it.

18           This is another slide relevant to the  
19 dissemination of the methodology standards. This  
20 is a course that PCORI funded the development of  
21 with Baylor University, to develop an online course  
22 for clinicians of all types to get familiar with

1 the methodology standards.

2           There are six modules. This has been up.  
3 In future Board meetings, I will be presenting to  
4 you tracking data on the use, the number of people  
5 who have been certified with this CME. It's  
6 directed to all sorts of clinical groups, not just  
7 physicians, and Baylor is doing a lot of work to  
8 publish and disseminate the availability of this  
9 training module.

10           UNIDENTIFIED: Joe, just for people  
11 listening at home, if someone is interested in  
12 doing this course and CME, where should they go?

13           DR. SELBY: It's on PCORI's website; is  
14 that right?

15           UNIDENTIFIED: It's on the home page.

16           DR. SELBY: Thank you. This is one other  
17 course. Another interesting course developed at  
18 the University of Pennsylvania totally focused on  
19 the methodology standards. This is a course in  
20 patient-centered outcomes research. The actual  
21 course is called Methods in PCOR and Effectiveness  
22 Research. Quite nice they have a class dedicated

1 to each one of the standards in the methodology  
2 report.

3 Now let's have a brief discussion, but we  
4 have talked so much that I really want to wrap this  
5 up now within a couple of minutes and hand it over  
6 to Lori Frank.

7 Gail?

8 MS. HUNT: With regard to that last  
9 example that you had up, Joe, there was an earlier  
10 one from Tulane where they had developed a class as  
11 well or a course. I guess I'm sort of hoping that  
12 PCORI is not funding a bunch of universities to do  
13 individual courses that then --

14 DR. SELBY: No, we did not fund either of  
15 those. We funded the CME for the methodology  
16 standards, but we did not fund the development of  
17 the course at Penn or Tulane.

18 MS. HUNT: Okay; good.

19 DR. SELBY: Those are courses that are  
20 springing up so that people can understand PCOR and  
21 PCORI.

22 MS. HUNT: Yes, but I still think it would

1 be great if we sort of intervened or if we at least  
2 gave them the opportunity to say, you know, we will  
3 be happy to help spread this across the country to  
4 other universities so they can benefit, even though  
5 we didn't fund it.

6 DR. SELBY: Good; thanks. Sharon?

7 DR. LEVINE: The comment was about the  
8 three slides beginning with the graphic showing the  
9 process of approval followed by mapping topics to  
10 that. Those two slides and the one that follows  
11 are the three most effective communication tools  
12 I've seen yet to try to explain to people what  
13 PCORI is all about. They're fabulous. I wish we  
14 had them a year ago.

15 I think it's an extremely effective way to  
16 respond to queries about what is this all about.

17 DR. SELBY: I'll just give a nod to our  
18 team, Michele and her team, for visualizing them in  
19 ways that are useful, and to actually Science and  
20 SOC for the one you like, the pathway.

21 Barbara?

22 DR. McNEIL: Two comments, Joe. Do you

1 have any idea how often grants that fail from a  
2 methodologic point of view have had PIs who have  
3 reviewed or looked at the methods website?

4 DR. SELBY: No.

5 DR. McNEIL: Maybe it would be a good  
6 thing to find out. The second point to that is  
7 would you ever think now that we have many letters  
8 of intent and we have some sense of what  
9 individuals are doing when they submit a letter of  
10 intent and we say yes, go with it, you say yes,  
11 you're going to do X, Y and Z, think about looking  
12 at method sections A, B, and C, or look at module  
13 six from Baylor, or whatever, just to potentially  
14 increase our acceptance rate and cut down the  
15 number of poorly executed grants from a  
16 methodologic point of view.

17 DR. SELBY: Nice. I will say, Barbara,  
18 that if anybody applies, even to write a letter of  
19 intent, online, the online page that they are  
20 working on has a direct link to the methodology  
21 standards, and they are admonished to check them.

22 I don't think we have gotten as

1 sophisticated as saying oh, you're doing a cluster  
2 randomized trial, we will have a cluster standard  
3 next month that you can look at. It's a nice idea.

4 DR. McNEIL: I was just being a little  
5 pushier.

6 DR. SELBY: Yes, more targeted. Debra?

7 MS. BARKSDALE: I have two quick  
8 questions. On the slide that you talked about the  
9 reasons for contract modifications, are the reasons  
10 mutually exclusive or are some studies --

11 DR. SELBY: I don't think they are  
12 mutually exclusive; no. If anybody here knows they  
13 are, correct me. I think a contract could be  
14 modified for two or three of those things at the  
15 same time. Milestones and scope, for example.

16 MS. BARKSDALE: You don't know right  
17 offhand how many studies this actually represents?

18 DR. SELBY: No, I don't. Let me turn  
19 quickly to Michele.

20 MS. ORZA: No. [Off microphone.]

21 DR. SELBY: We did not ask ourselves how  
22 many studies had some kind of modification. It's a

1 good question. We will get that back to you  
2 quickly.

3 MS. BARKSDALE: My other question relates  
4 to the number of publications. You answered it in  
5 part. You said there are a number of studies on  
6 protocols. What are the kind of things that people  
7 are -- not the papers that are written about PCORI  
8 but the ones from funders, people who have been  
9 funded, what kinds of things are they writing  
10 about? It's not research findings necessarily;  
11 correct?

12 DR. SELBY: There definitely are a number  
13 of papers now about research findings. I presented  
14 three of them last time, for example. There are  
15 more of those. There are some evidence syntheses  
16 that were done at the beginning of a project.  
17 There are some descriptions of the tools that were  
18 developed. There are papers about what it was like  
19 to engage with patients.

20 In addition to the protocols, those are  
21 some of the themes that come to mind.

22 MS. BARKSDALE: Thank you.

1 DR. SELBY: Thank you all very much, and  
2 now thanks to Dr. Lori Frank, I remember a little  
3 over a year ago, Harlan Krumholz really urged us to  
4 get more information on our portfolio and be able  
5 to look at it in a variety of different ways. I  
6 actually charged Lori with that, and she has just  
7 done amazing work.

8 This is really a way to bring you up to  
9 date with what is available at PCORI now. Knowing  
10 what is available starts to inform the kinds of  
11 questions you want to ask.

12 Lori, thanks very much.

13 MS. FRANK: Thanks very much, Joe. I do  
14 want to acknowledge this is a team effort and a  
15 large team at that. Some of the team members are  
16 listed here. My thanks to Rachel Witsaman, who has  
17 been an internal leader for this. Vadim Gershteyn  
18 as well, who is back there. We are so glad to have  
19 Heather Edwards who joined our team. Heather is  
20 back there.

21 We worked with a team from Ohio State  
22 University as well, and I'll introduce them, but

1 they were led by Dr. Ann Scheck McAlearney and Dr.  
2 Timothy Huerta. They brought us some additional  
3 clinical expertise, health services expertise,  
4 coding expertise, and medical librarian expertise.

5           What I would like to do is bring you up to  
6 date on the PCORI portfolio taxonomy, describe how  
7 it was developed, and introduce you to the  
8 structure of it. Then we can walk through together  
9 a few examples, which I think help bring to life  
10 the structure, and my goal is to have us all think  
11 jointly about how best PCORI can leverage this as a  
12 tool.

13           The goals for developing this were  
14 twofold. First was to support reporting. As you  
15 saw, Joe just went through, we always report out to  
16 the Board and to the public on the conditions that  
17 PCORI is funding studies in, what the study  
18 populations are. We give information a bit about  
19 the comparators, and also we describe where on the  
20 care continuum these projects are located from  
21 prevention all the way through treatment and  
22 transition.

1           We wanted to enhance our ability to report  
2 on the contents of the portfolio to better  
3 communicate to everyone about what PCORI is  
4 funding.

5           The second goal is to use that enhanced  
6 information to support strategic decision-making.  
7 With a greater level of detail, we feel like we can  
8 better understand the direction PCORI should go in  
9 in the future. This will also enable us to be able  
10 to take a close look at what research teams are  
11 bringing to PCORI in terms of their ideas and what  
12 stakeholders have been bringing to PCORI in terms  
13 of potential topics and compared against what we  
14 are actually funding.

15           Wherever possible, we built from  
16 precedent, so you can see we turned to the unified  
17 medical language system, UMLS, MeSH headings,  
18 Census definitions, and we also referenced the NIH  
19 RCDC, Research Condition and Disease  
20 Categorization, in this process.

21           The structure of the taxonomy is  
22 hierarchical, so I'll show you that we have high

1 level themes. Here we are using an example of  
2 population. Beneath the themes are codes. The  
3 example here are age groups within the study  
4 population, and below that are sub-codes, and we  
5 have sub-sub-codes, which you will see in a moment.

6 I mentioned that we built from precedent  
7 in terms of content, but certainly in terms of  
8 structure as well.

9 The reason why we couldn't just use one of  
10 these great systems that's already out there is  
11 because the PCORI portfolio is so unique. There  
12 are some ways in which we wanted to express that  
13 uniqueness.

14 First, about the populations that are  
15 being studied, next about the nature of our  
16 comparators, third, you will see greater attention  
17 to the outcomes within PCORI funded projects. We  
18 can really now describe those projects in great  
19 detail. Finally, a huge unique aspect of PCORI's  
20 funding is being able to capture and describe the  
21 stakeholder engagement in the research that PCORI  
22 funds.

1           This is the most fun I've had in a very  
2 long time, showing you this.

3           [Laughter.]

4           MS. FRANK: These are the four categories  
5 in red that we have been reporting on, conditions,  
6 study population, care continuum from prevention  
7 through screening, diagnosis, et cetera, and  
8 comparators.

9           This is what we now have. That was so  
10 much fun for me I'm going to do it again. So, this  
11 represents a great deal of work and thought and  
12 input. It is still a work in process, so we are  
13 interested in your input as we move along.

14           I just wanted to share with you that we  
15 have started at the level of a study, that's the  
16 blue box at the top, and we now have an additional  
17 seven themes for 11 themes total, with a greater  
18 number of codes below each of those themes.

19           You can see the detail on the right there  
20 for outcomes. I'll walk you through that in a way  
21 that you can read in just a few moments.

22           Here's an example of the drill down.

1 Beginning with study approach, we have these five  
2 codes. What is the study method specifically, what  
3 is the study design, what is the randomization  
4 method, what is the method for data collection, and  
5 then what is the analytic method.

6 Here's the drill down on design. We have  
7 observational studies and interventional studies as  
8 the sub-code there. Then we have really excellent  
9 detail below that.

10 I'd like to turn to some very quick  
11 examples which I think will help demonstrate the  
12 structure of this and help us all think as I said  
13 through ways in which we can all best leverage this  
14 tool.

15 The codes that I'm about to show you are  
16 from a set of 252 coded projects across four of our  
17 five priority areas, assessment of prevention,  
18 diagnosis and treatment options, improving health  
19 care systems, addressing disparities, and  
20 communication and dissemination research.

21 We don't have methods in here because the  
22 methods coding is unique. There is some real

1 important differences, so we have a separate coding  
2 system for that part of the portfolio.

3 I'm showing you the coding results through  
4 everything funded through spring of this year. A  
5 really important point is that unless I say so, the  
6 codes are not mutually exclusive. They are  
7 inclusive coding. Every time a project had any  
8 element that met criteria for one of our code  
9 definitions, it got the check mark and we coded it  
10 as such.

11 The team began with the work that our  
12 strategic portfolio analysis team at PCORI began.  
13 The Ohio State group then had a great deal of  
14 consensus coding around themes and double coding,  
15 and once the code book was set, then we all coded.

16 Beginning with study populations. We have  
17 highlighted age, disability, and provider  
18 populations as examples we can talk through very  
19 quickly.

20 We asked the question which in this coded  
21 set of the portfolio relates to a focus on older  
22 adult populations, and 69 projects do. How are

1 those arrayed across the four priority areas here,  
2 and you can see that in the bar chart there. Then  
3 we can ask additional questions. What are the  
4 settings for those studies.

5           Of those that are noted to have occurred  
6 in a health care setting, what kind of settings.  
7 Forty-one of them are in ambulatory care clinics,  
8 two are in long term care facilities, et cetera.

9           We also have codes for the other settings  
10 in which these studies take place, a fair number of  
11 phone intervention studies, for example.

12           We asked the question which of the studies  
13 in this coded portfolio focus on vision and/or  
14 hearing loss, and the answer is eight projects, all  
15 but one of them focus on both. We can ask  
16 additional follow up questions, what is the nature  
17 of the intervention strategy for those projects.  
18 For five of them, it's provider or organization led  
19 intervention. Three of them have access to care  
20 interventions. Three have training interventions,  
21 et cetera.

22           Still within study populations, we asked

1 the question about providers, how many of these  
2 projects focus on community health workers, 15 do.  
3 We asked that same question, what is the setting,  
4 health care facility or other setting, so you can  
5 see quite a few take place in a home setting.

6 Another question we can ask is where in  
7 the health care continuum do these projects take  
8 place, so there are two on the prevention side, one  
9 on the screening side, and 11 in the treatment  
10 area.

11 Looking at study design, how many projects  
12 used a cluster randomized design, and the answer is  
13 25 out of this initially coded set, and here is how  
14 they array across the four priority areas. What  
15 are the therapeutic areas or clinical conditions  
16 within those, and we can get the answer to that.

17 Still within design, looking just at that  
18 set that are observational studies, that is 24  
19 percent, about 60 percent are prospective cohort  
20 studies and about a third are retrospective cohort  
21 studies.

22 We have a whole set of codes for

1 intervention. One of the codes is about the nature  
2 of the intervention strategy, and we can then ask  
3 questions about within access to care strategies  
4 how many used telemedicine, for example.

5           With comparators, our two main categories  
6 are two arm comparators versus greater than two arm  
7 comparators, and we have an overlay there with  
8 usual care information. Just as an example of a  
9 two arm comparator study, it is Anti-TNF alone or  
10 in combination with low dose methotrexate for  
11 Crohn's.

12           The three-arm study is a biologic alone or  
13 in combination with a disease-modifying agent, and  
14 the third arm relates to when in treatment it is  
15 introduced. A four-arm study where some  
16 interventions for improving adherence to cervical  
17 cancer screening guidelines being compared against  
18 each other.

19           I mentioned the greater level of detail  
20 for outcomes, so of course, we want to know who the  
21 reporter is for our outcomes in our portfolio, how  
22 many of these studies have a patient reported

1 outcome. How many turn to the caregiver as a  
2 source of info. How many are relying on biologic  
3 tests, for example.

4 That level relates to the focus for the  
5 outcomes. There is patient focused outcomes  
6 specifically or some that are focused on the level  
7 of the health system, for example. The Ohio State  
8 team really spent a lot of time on the nature of  
9 the concept in the outcomes. Health status  
10 outcomes, skills acquisition outcomes, health  
11 behavior outcomes, et cetera.

12 Finally, looking at stakeholder engagement  
13 in the portfolio. We code for the approaches.  
14 This is data you have seen before but now we do it  
15 based on the research plan. Are the research  
16 partners part of the team, are they co-PIs, are  
17 they on advisory boards, et cetera. Where in the  
18 engagement continuum are they being engaged, is it  
19 for study start up, is it for implementation, is it  
20 for dissemination or two or three of those. Who  
21 are the stakeholders who are being engaged.

22 For the set, we see that 91 percent of

1 these projects engage patients or consumers in some  
2 way, and almost the same number engage clinicians.  
3 About a third engage health systems.

4           These are just examples of ways in which  
5 we can now get our hands around some of the  
6 information.

7           Before I open it up for discussion, I want  
8 to acknowledge the work of our colleague, Elizabeth  
9 Harrison, a PCORI staff member, who led this work  
10 when she joined PCORI. She passed away about a  
11 year ago in October. We are indebted to her. We  
12 are grateful for the time we had with Elizabeth.  
13 We have the Elizabeth Harrison Fellowship now. It  
14 is one way to honor her memory and the work she has  
15 done for PCORI.

16           Team efforts. Here are some of the team  
17 members from the PCORI side and from the OSU side.  
18 I mentioned Dr. McAlearney and Dr. Huerta. That is  
19 their full team.

20           With that, I am happy to open it up to  
21 questions and discussion.

22           CHAIRMAN NORQUIST: Okay. We will start

1 from this direction. Mike?

2 DR. LAUER: Thanks. Mike Lauer from NIH.  
3 Lori, that was great. Are the individual projects  
4 coded manually? Is that how that is done?

5 MS. FRANK: Yes. We have been coding with  
6 the assistance of software, but it's one by one, so  
7 we can capture all the detail.

8 CHAIRMAN NORQUIST: Harlan?

9 DR. KRUMHOLZ: I just wanted to commend  
10 Lori for a terrific job. When I suggested this, it  
11 was not going to be easy, and it's easy to make  
12 suggestions, it's hard to deliver in such a nice  
13 and comprehensive way. I just want to publicly say  
14 thank you to the whole staff and to Lori for  
15 leading this.

16 As I look at this taxonomy, I think it  
17 would be an enormous help to a variety of  
18 organizations. The degree to which that  
19 documentation and the reproducibility of that  
20 method can be applied broadly, if it becomes a  
21 standard or it can be iteratively improved, we hold  
22 it as a living document or someone else does, I

1 think that would be very important.

2           Clearly, your guidance and your team's  
3 involvement have created something that will be  
4 very useful. I said to you I think the next step  
5 is to take the actual trials themselves and some of  
6 these areas could also be -- the same kind of thing  
7 could be done in subgroups.

8           I think there is still work to be done to  
9 continue to extend this, but search capability, the  
10 way we tag these, the way we understand the  
11 portfolio, the way we understand where we are  
12 getting progress and where we are not, all these  
13 things become a lot easier when we have a common  
14 language and a common way to look this up. It is a  
15 data standards issue, again, around the meta work  
16 that we are doing, not just the funding.

17           Thank you very much.

18           MS. FRANK: Thank you.

19           DR. DOUMA: I also want to say thank you  
20 very much. It is incredible to have access to the  
21 information and particularly historically to see  
22 what we have done, and at some point when we put in

1 completion of these things so we can grasp what is  
2 going on more on an ongoing basis, but from a more  
3 futuristic point of view, I'm hoping that the  
4 Selection Committee will figure out a way of using  
5 this in order to make selections.

6 Can you quickly tell them how they can use  
7 it and are they beginning to do so?

8 MS. FRANK: I'll let the Selection  
9 Committee speak for themselves. We certainly have  
10 discussed internally that this provides some  
11 context when the selection slate is brought before  
12 them. Absolutely, there are different ways in  
13 which they can see now how gaps are being filled on  
14 real time.

15 CHAIRMAN NORQUIST: Rick and then Barbara.

16 DR. DOUMA: Let me just quickly follow up  
17 on that. In order to fill in the gaps, we need to  
18 know where the gaps are, and the gaps are not  
19 simply what we have done, it is what we want to do.  
20 We have to have a picture, a vision, of what we  
21 want to get done before we know where the gaps  
22 actually are.

1 MR. KRONICK: I add my thanks and  
2 congratulations. It seems like great work. From  
3 AHRQ's standpoint, we would be very interested in  
4 kind of seeing the guts underneath it.

5 As a Board member, you may have said this,  
6 and I'm sorry if I missed it, is this tool  
7 available to us, and if so, how do we get to it?

8 MS. FRANK: Access it. Right now, it's  
9 available for staff. We're working on an interface  
10 that would make it useable for you and the public.  
11 We will report back when that is ready.

12 CHAIRMAN NORQUIST: Barbara?

13 DR. McNEIL: I agree with what everybody  
14 has said. I have one question, Lori. You gave a  
15 lot of statistics and percentages and whatever, and  
16 you had one I would have loved to have seen. One  
17 of these slides had the number of comparative  
18 effectiveness trials, A versus B or A versus B+ or  
19 A versus something with usual care.

20 Can you tell us what those numbers are  
21 from your data?

22 MS. FRANK: Yes; sure. We have about 70

1 percent in the portfolio that are two arm and the  
2 remainder are greater than two arm trials. There  
3 is about 55 percent for which usual care is stated  
4 as one of the comparators and it is specified.  
5 There is a very small proportion for which usual  
6 care is stated as a comparator without further  
7 information available in the research plan.

8 CHAIRMAN NORQUIST: Harlan Weisman.

9 DR. WEISMAN: Just ditto what everybody  
10 has said, it's fabulous, it really is. Just to  
11 supplement what Allen said, I think as we begin, as  
12 these studies begin being completed, having  
13 incorporated in something about reporting  
14 publications and classification of those would be  
15 equally valuable.

16 MS. FRANK: Yes. I'll just add that these  
17 taxonomy data are being combined with the rest of  
18 the data that we have around PCORI, so that we can  
19 get at end date and where the awardee is and their  
20 own dissemination plan. Absolutely.

21 CHAIRMAN NORQUIST: Freda?

22 DR. LEWIS-HALL: Congratulations, thank

1 you, and all that other good stuff. This is  
2 really, really great. As a follow on to Harlan's  
3 comment and to Allen's question, you proposed to  
4 share this. Might there be an opportunity to  
5 consider allowing others to import their study  
6 portfolio into this so we can really quickly  
7 identify what some of the continuous gaps are.

8 Right now, I'm not sure such a taxonomy  
9 exists that is widely available and easily useable,  
10 and if this is it, then that might be --

11 MS. FRANK: Yes, that's an excellent  
12 point. We are very much interested in  
13 understanding gaps comprehensively. Vadim has led  
14 the way in terms of using Inspire as a data  
15 visualization tool where we can pull in some other  
16 funders' portfolios into that. I would love to  
17 take you up on your idea to figure out how we can  
18 apply this taxonomy to those other portfolios.  
19 Absolutely.

20 CHAIRMAN NORQUIST: Christine?

21 MS. GOERTZ: Great, great job, Lori. I'm  
22 wondering to what extent is the Science group using

1 this in the cluster analysis? How are those two  
2 projects working together?

3 MS. FRANK: We didn't want to hold up the  
4 cluster work and teams around PCORI have already  
5 been thinking about the contents of the portfolio  
6 from a lot of perspectives, as you know. Now we  
7 have a consistent set of definitions that can be  
8 applied. Vadim has actually been key to pulling a  
9 lot of those analyses that underlie the cluster  
10 work and the whole portfolio analysis team. It is  
11 connected and will continue to be.

12 CHAIRMAN NORQUIST: Joe, do you want to  
13 make a comment here?

14 DR. SELBY: First, let me add my thanks to  
15 Lori and the considerable team here. It's going to  
16 be really great for us all.

17 I just wanted to say that we actually had  
18 the pleasure of reading a paper pre-publication  
19 that basically went to PCORI's website and went to  
20 the spreadsheet on our projects and did research on  
21 our portfolio already. We have one paper where  
22 people have already done that. In our comment, we

1 congratulated them and invited others to do the  
2 same.

3           With the increased capabilities that Lori  
4 has generated, I think mining the PCORI portfolio  
5 might become a national pastime.

6           [Laughter.]

7           DR. SELBY: We are going to adjourn for  
8 lunch.

9           CHAIRMAN NORQUIST: Yes, we are going to  
10 adjourn. It's on the second floor, but a different  
11 room than we were before. For those of you on the  
12 call, we are breaking for lunch and we will be back  
13 at 1:15 Eastern Standard Time.

14           [Whereupon, at 12:16 p.m., a luncheon  
15 recess was taken.]

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1 different stakeholders and bringing their  
2 perspective to the Board. Today, we have three  
3 people who have worked with PCORI or had PCORI  
4 grants, or they have been on panels for PCORI, and  
5 they're really representing the patients.

6 First of all, we're going to have Marc  
7 Boutin, who is the CEO, relatively new, well, maybe  
8 it's been a year.

9 MR. BOUTIN: Nine months.

10 MS. HUNT: Nine months; less than a year.  
11 Of the National Health Council. That's an  
12 organization that really brings together all the  
13 segments of the health care community to represent  
14 people with chronic disease and disabilities and  
15 their family caregivers.

16 Marc has been a leading voice for  
17 something called "Putting Patients First," which is  
18 an initiative of the National Health Council that  
19 is really quite focused on the issue of patients.

20 Then we're going to have Donna Cryer. She  
21 is a liver transplant patient. She has served on  
22 the PCORI Hep C Working Group that we have, and has

1 helped to refine the research questions for the  
2 TPSA. She's also been in a PCORnet Data Privacy  
3 Workshop.

4 She was the head of Cryer Health for  
5 almost a decade, which was a consulting firm  
6 dealing with strategic counsel, basically, to a  
7 number of organizations. She's a liver transplant  
8 patient, so she's actually experienced and going to  
9 be talking literally from the patient's  
10 perspective.

11 Last but not least, we have Celeste Lee,  
12 who is a 34-year patient of end stage renal disease  
13 currently on In-center hemodialysis. She has been  
14 a patient partner in PCORI research, and is  
15 involved with vasculitis, PPRN, which we were  
16 talking about the PPRNs this morning, and was on  
17 the PCORnet Patient Council. She has also spoken  
18 at a PCORI Panel on data privacy.

19 I'm going to ask each of them to have  
20 maybe six or seven minutes to talk to you about  
21 their perspective as patients and stakeholders, and  
22 then we're going to open it to questions.

1           Marc, do you want to start?

2           MR. BOUTIN: Sure. Thank you, Gail. I  
3 really appreciate the introduction and the  
4 opportunity to be before the Board today.

5           The National Health Council is an umbrella  
6 organization of patient advocacy organizations. It  
7 provides an united voice for people with chronic  
8 disease and disabilities. We work on issues that  
9 are important to all people with chronic diseases  
10 and disabilities.

11           Much like this organization, our  
12 membership is open to all organizations interested  
13 in health. We have the payer perspective, the  
14 innovator perspective, and the generic perspective,  
15 all in the organizations, but the governance is  
16 controlled by the CEOs of the patient advocacy  
17 organizations that you would all know.

18           We, like many of the patient  
19 organizations, played a role in the creation of  
20 PCORI, and in fact, we were successful in getting  
21 more than two dozen specific language items into  
22 the creation of PCORI. We're very, very pleased

1 and very active in the legislative process that  
2 brought this organization into being.

3           We have also been highly engaged in the  
4 implementation of your work, and I'm actually very  
5 pleased to say that I've been a member of PEAP,  
6 which I still chuckle when I hear that acronym.  
7 Patient Engagement Advisory Panel. It's been a  
8 great pleasure to serve in that role, and a great  
9 opportunity to help have impact on the work of  
10 PCORI.

11           I wanted to take a few minutes today and  
12 talk about the legacy of PCORI. I think you should  
13 be proud. You are five years out, but you have a  
14 legacy. A number of those items that I want to  
15 highlight include usefulness, something from a  
16 patient perspective that is so intuitive, and yet  
17 we fought in the legislative process to ensure that  
18 PCORI would be focused on research that was useful  
19 to the end user, patients, providers, policy  
20 makers, and we found it incredibly difficult in the  
21 legislative process, but we partnered with PCORI  
22 and that became a core value in everything you do,

1 and something that is of huge focus for the patient  
2 community and something we are truly appreciative  
3 for.

4           When you look at the whole concept of PCOR  
5 and what you have done with PCORnet, huge  
6 opportunities for a legacy. Perhaps most important  
7 from my perspective is the work you have done on  
8 patient engagement, meaningful patient engagement,  
9 and its impact not just on the comparative  
10 effectiveness research enterprise but the entire  
11 research enterprise. We are seeing dramatic  
12 changes. You are seeing changes even beyond the  
13 research enterprise that you should stand up and  
14 take a standing ovation for.

15           They include drug development throughout  
16 the life cycle. We're seeing innovators engage  
17 patients at the front end of drug development to  
18 understand what are the outcomes most important to  
19 them, and take that into the development process.  
20 We are seeing the regulators both here and abroad  
21 respond to that.

22           Huge, huge legacy in five years. As you

1 all know, the health care ecosystem is incredibly  
2 complex. I want to use the rest of my time to say  
3 that we need to do a lot more. You should be proud  
4 of your accomplishments, but moving forward, you  
5 have to enter the value discussion.

6           Everybody in Washington is trying to  
7 decide what is value. In fact, there are a number  
8 of models that have been put forward here in the  
9 United States about what value is. Not a single  
10 model has engaged the patient perspective in  
11 determining what value is.

12           It seems to me there is a lot that could  
13 be learned from PCORI in defining "value." Almost  
14 all of these models compound value with societal  
15 willingness to pay for the innovation. Two  
16 critically important issues, and I can tell you the  
17 National Health Council and the patient community  
18 is willing to have that conversation on payment,  
19 but they are not the same thing as value.

20           We need to collectively define what  
21 "value" is, and create some common principles  
22 around that.

1           From the patient perspective, we think of  
2 value in the context of having the meaningful  
3 opportunity to assess clinical outcomes, potential  
4 clinical outcomes, in the context of our own  
5 personal circumstances and our goals and  
6 aspirations. Something core to the work that PCORI  
7 has been doing.

8           If you think about it for a moment, and I  
9 remember using this example at your annual meeting  
10 you held jointly with AHRQ, my father was diagnosed  
11 with a terminal cancer. He was given nine months  
12 to live. He went through surgery, radiation, and  
13 eight rounds of chemotherapy. It extended his life  
14 by approximately three weeks. He spent nearly as  
15 much time in the chair getting chemotherapy as he  
16 lived longer. He lost half his body weight. He  
17 lost the dexterity in his fingers.

18           By the way, his sole source of income for  
19 the family was repairing antique clocks and  
20 watches. He lost his ability to generate an  
21 income. He died in an excruciating way, and it  
22 cost the system almost \$900,000. That is not value

1 to anybody.

2           Imagine if we took the time to understand  
3 the personal circumstances of patients, understand  
4 their goals, and bake that into the delivery  
5 system. Think of two people with Parkinson's at  
6 the same level of progression of disease. One of  
7 them wants to ensure they can sleep well at night  
8 with their significant other and have a normal home  
9 relationship.

10           The other person wants to make sure their  
11 employer doesn't know, so they are not  
12 discriminated against in the workplace.

13           Those are entirely different outcomes and  
14 they lead to entirely different treatment regimens.  
15 Imagine the opportunity for PCORI to start to look  
16 at evaluating the impact of quality measures,  
17 payment models, delivery designs, that would help  
18 ensure that patients are able to articulate what  
19 their goals and aspirations are.

20           What is it in terms of the context of  
21 their personal circumstances. Are their goals  
22 actually met. Are their outcomes improved. Does

1 compliance and adherence improve. I'm getting the  
2 ax.

3           Let me go to my conclusion here very  
4 quickly, and that is that organizations survive  
5 when they are impactful and relevant. You have to  
6 look at how this organization can increase its  
7 impact and relevance in this climate where we know,  
8 and I can guarantee we are going to have a new  
9 Congress, a new President in 2017, that cost  
10 drivers in the health care marketplace are going to  
11 cause them to look at how we finance the system.  
12 You have an opportunity to use your resources, your  
13 leverage, your brand to drive the discussion of  
14 value, so that it has meaning for patients, and  
15 help reduce costs and give us a very new model of  
16 health care delivery.

17           I will say join the value discussion, be  
18 relevant, be impactful, and patients are counting  
19 on you. Thank you.

20           MS. CRYER: Today, I'm going to speak as a  
21 patient. I am a patient. I have chosen to self  
22 identify in that way, and to take on that identity

1 because it is the lens through which I truly look  
2 through to evaluate PCORI activities certainly, but  
3 really as I navigate life. That really is my bias,  
4 my lens, and my perspective.

5           As Gail mentioned, I am also the leader of  
6 a patient advocacy organization, the Global Liver  
7 Institute, which is an innovation and collaboration  
8 platform, attempting to create a transformative  
9 model of patient advocacy with liver disease as an  
10 use case, much like PCORI is trying to create a  
11 transformative model of research with many use  
12 cases that we have heard and that you have  
13 supported through your funding.

14           When I think of a patient today, because  
15 before I can get to my desk to act as a patient  
16 advocacy organization leader, before I can get to  
17 my phone to be a patient advocate outside of this  
18 room, I'm often known as "D.C. Patient" talking to  
19 online forums or speaking to those in the Twitter  
20 verse offering comfort and advice on navigation, I  
21 had to get out of bed.

22           As someone who is now four months after

1 joint replacements, I was thinking does rubbing my  
2 muscles with this particular type of cream before I  
3 start stretching decrease morning stiffness and the  
4 need for pain medication, and am I able to increase  
5 the number of steps.

6 I've been taking my morning medication,  
7 I'm thinking about does this generic version of the  
8 medication compare, have the same effects as the  
9 branded medication, and will look to my liver  
10 enzyme test to determine the results of that little  
11 experiment.

12 I am anemic and under the care of a  
13 hematologist, so as I consider my breakfast, I've  
14 been experimenting with the timing of caffeine with  
15 how I eat to increase iron absorption.

16 Throughout my day, as a transplant  
17 recipient and someone who is immunosuppressed,  
18 under multiple medications, we are thinking  
19 throughout our household about the effects of  
20 antibacterial soaps versus normal hand washing on a  
21 number of infections that I and my family members  
22 get throughout the year.

1           In terms of access, while I was waiting  
2 for my turn to speak, I was trying to access  
3 whether making an appointment on ZocDoc versus  
4 calling is actually a more effective way of getting  
5 an appointment, or trying to use an online refill  
6 system versus calling the system at my doctor's  
7 office actually resulting in getting a refill.

8           In the evenings, I spend reading medical  
9 journals, information online, various newsletters,  
10 and think how best to format and disseminate  
11 information in a way to a variety of patients in a  
12 variety of levels of health literacy and health  
13 backgrounds are able to take in.

14           At dinnertime, again thinking as an IVD  
15 patient, I have experimented with low residue  
16 versus gluten free diets. At bedtime, I'm running  
17 a little experiment right now to see if music  
18 versus reading versus aroma therapy helps with  
19 faster and deeper sleep, which I track on a  
20 wearable device.

21           I know as a patient what I have to  
22 contribute to the field of comparative

1 effectiveness research. Sometimes I wonder what  
2 doctors and clinicians have to offer that is  
3 equally as robust.

4 I say that only to think that patients  
5 have an intuitive sense of comparative  
6 effectiveness research that we have not previously  
7 captured, and many of the mechanisms that Sue  
8 outlined for you today and that Sharon did earlier  
9 this morning are so important for being able to  
10 take this experience and creating a discipline and  
11 specific mechanisms to translate these experiences  
12 and intuitive understandings into valid research  
13 protocols and clinically acceptable evidence and  
14 yes, higher keys of taxonomy, and we thank you for  
15 doing that.

16 No individual patient organization really  
17 has been able to do that. With my remaining one  
18 minute and 51 seconds, I will just talk a little  
19 bit about the evolution of some specific PCORI  
20 structures that have had a lot of meaning to me and  
21 to the patient community, and then end with some  
22 specific areas of emphasis.

1           As I looked at your milestone document,  
2 there were some that were included in there, but I  
3 think those that have been the most important to me  
4 as I saw an organization that was really struggling  
5 to set a tone and to figure out and define what  
6 patient centeredness was, I look at you home page  
7 today with a blog post by a patient who is  
8 transmitting her experience into expertise and her  
9 involvement with PCORI initiatives.

10           I look at the Board of Governors and the  
11 representation from patient advocacy organizations.  
12 Certainly, the development of your staff and the  
13 quality of your staff and Chief Engagement Officer,  
14 the Patient Engagement Director, and it was no  
15 coincidence that the first sort of first Chief  
16 Patient Officer in a pharmaceutical company came  
17 from the ranks of PCORI staff.

18           The advisory committees and committees'  
19 development in patient engagement, in particular,  
20 the rare diseases group. I went back and there is  
21 a fantastic and very robust, and could barely  
22 improve on the recommendations that were included

1 in the support of 2013 on transforming patient-  
2 centered research, building partnerships and  
3 promising models, so I would simply ask for people  
4 who have time to refer back to that, because it's a  
5 very rich source of patient-centered  
6 recommendations.

7 I participated as a merit reviewer, and I  
8 think the value and role of merit reviewers is  
9 really to explain and remind the other merit  
10 reviewers in some other disciplines what patient  
11 centeredness criteria is, and their ability in the  
12 moment to emphasize that is crucial.

13 The patient researcher match maker app  
14 challenge was a fantastic foray into the health IT,  
15 the innovation, stay in that space. What you are  
16 doing is essentially disruptive, own it. Be  
17 disruptive.

18 The last things I will mention that are  
19 really helpful is to suggest a patient-centered  
20 research plan, highlighting that option, and the  
21 specific document on how to write a research  
22 question. That along with the PCORI Ambassador's

1 webinars, workshops and roundtables offer  
2 opportunities for public comment, and have all been  
3 a fantastic demonstration not just to those who  
4 work for PCORI, but actually models that can be  
5 used and transferred to the rest of the health care  
6 ecosystem.

7           That is the true value of having created  
8 these tools and models for the rest of the  
9 ecosystem to use. I would ask you in the future to  
10 emphasize your support of the pipelines for  
11 patients, patient advocates and patient advocacy  
12 leaders, to participate in this work, to continue  
13 to train us, to continue to make sure to monitor  
14 the ratio of participation of patients and patient  
15 advocates on all types of committees, and to  
16 continue this cultural shift of patient -- not just  
17 as subjects -- patients as the researchers and your  
18 peers.

19           Thank you.

20           MS. LEE: It looks like I'm totally like a  
21 robot here, and I totally apologize. Can you hear  
22 me?

1 MS. HUNT: Yes.

2 MS. LEE: I took a fall like three weeks  
3 ago and broke my shoulder. I wish I could say it  
4 was something very dramatic, but it was a contact  
5 sport of making my bed, and I tripped over a  
6 pillow.

7 Anyway, as I was getting off the plane  
8 today, not wanting to put any pressure on this arm,  
9 I put it on this arm to get up and I popped  
10 something here. I'm like oh, my God.

11 Here I am, I am a patient for you. One  
12 who has the burden of illness but still wants to be  
13 engaged in the work that we are doing. I think  
14 that is the challenge that PCORI faces. That's the  
15 challenge that a lot of physicians face, depending  
16 on rare diseases, depending on certain burdens that  
17 the patient population is probably having to be  
18 able to participate, right?

19 For you, case in point, I actually get to  
20 show you what that looks like here today. It's a  
21 little bit of a challenge. That's why I was  
22 standing, thinking it might be easier, so now when

1 I get up a little bit later, it's going to be like  
2 oh, my God.

3           From the very beginning when the Patient-  
4 Centered Outcomes Research Institute was looking to  
5 come into play and we were looking at how do you  
6 define patient-centered outcomes research -- I've  
7 been very engaged with the National Kidney  
8 Foundation for 34 years, so we were one of the  
9 groups that wanted to participate and be one of the  
10 stakeholders, and try to help you all define what  
11 that meant.

12           I think so eloquently Marc and Donna have  
13 already described what that is. What is patient-  
14 centered outcomes research? It's really saying  
15 what is the quality, what is the value of the  
16 research that we're trying to get at that is going  
17 to improve the quality of the life of the patients  
18 and their caregivers or their partners; right? How  
19 do we actually do this better?

20           What I want to spend my time here on is  
21 talking about how do we do that better, meaning we  
22 have the research. I think in the United States

1 and I would even say within Canada and in Europe  
2 and internationally, we have amazing health  
3 services researchers. We have people who do  
4 amazing work. The challenge is how do we have them  
5 engage with the patients and how do the patients  
6 and their partners engage with them to actually add  
7 value.

8           We know they value kind of the sniff test,  
9 you know, when you see it, that it's adding value,  
10 but how do we actually, as Donna was wanting you  
11 all to perceive it, how do we get the patients  
12 prepared, trained, engaged in this type of work.

13           We know they want to, but do they, this is  
14 the challenge. We say we know they want to. A lot  
15 of patients have a very difficult time advocating  
16 for themselves. When we look at patient advocacy  
17 or patient engagement, you can kind of look at it  
18 at two different I would say cycles.

19           One is the private, the personal. This is  
20 how do I advocate for myself. How do I become an  
21 engaged active patient for my own health care,  
22 understand my own things, understanding what it is

1 I'm taking, understand how I make shared decisions  
2 with my physician.

3 That's been in research for a very long  
4 time, right. The folks at Dartmouth are doing an  
5 amazing job looking at shared decision-making  
6 models.

7 You have that type of advocacy, that type  
8 of engagement on the patient side. Then you have  
9 where they kind of cross over, so from the  
10 personal, they go to the public. How do they  
11 become a public advocate? How do they actually say  
12 now that I have this experience and I have learned  
13 what I have learned, I want to be able to apply  
14 that to a larger setting, to a much more of a  
15 public setting, where I can affect other people's  
16 lives.

17 That is what we are talking about at  
18 PCORI. We are talking about how people are taking  
19 their personal advocacy or engagement and then  
20 maybe jumping on a new track to do the public. I  
21 think that is crucial.

22 This chair really is PCORnet. You all

1 know about PCORnet. I've been engaged with PCORnet  
2 at two levels. One as a patient and advocacy  
3 counsel looking at privacy on a national level, and  
4 then I've also been involved with one of the  
5 patient-powered research networks, it is the  
6 Vasculitis Patient-Powered Research Network.

7           The reason I do that is the disease that I  
8 had that caused my kidney failure was vasculitis.  
9 It's a rare disease, and I was diagnosed at 17.  
10 I'm 50 years old, which is really awesome that I  
11 am. I'm very much involved in that research  
12 network.

13           One of the biggest challenges, I think  
14 there were 18 of them in phase one, but a challenge  
15 is saying if we're going to have these patient  
16 registries, we're going to create them, and we're  
17 going to have patients provide us the data, and I'm  
18 going to kind of not use my time to explain what  
19 PCORnet is, I'm really hoping you guys know what  
20 that is.

21           MS. HUNT: Yes.

22           MS. LEE: What the challenge was is how do

1 we get patients within our network, our patient  
2 population, who want to be involved with creating a  
3 registry, designing a registry, designing the web  
4 pages, looking at research, what research is  
5 important, how do we do that.

6 I'm going to get down to even the nitty-  
7 gritty. What I did for a profession at the  
8 University of Michigan is I oversaw patient-  
9 centered care for the health system. That was  
10 looking at how do we get patients engaged  
11 throughout our health systems, and not only at the  
12 point of care, but also within research and within  
13 education.

14 You have to go down to a really simple  
15 substructure, which is how do we orient them,  
16 right, how do we train them, how do we educate  
17 them, how do we define what "patient-centered" is,  
18 right. How you can help us, and then how do we  
19 translate that to physicians and the researchers to  
20 know how to do that.

21 It's all about setting expectations. It's  
22 all about defining and using the right language and

1 saying this is what we are really looking to do  
2 within the Vasculitis Patient-Powered Research  
3 Network. We actually want to have all the patients  
4 who are willing around the world to sign up and  
5 give us their information to try to collect as much  
6 as we can. How do we do that and why is that  
7 important? How will that help make patients who  
8 come after us have a much better outcome and better  
9 quality than we have had, if we can actually create  
10 and get this data.

11 We designed kind of an orientation. We  
12 basically gave them a really good education about  
13 vasculitis, again, why we are doing this, how they  
14 can help us, what this website is going to look  
15 like, would they be willing to be in an area of a  
16 patient advisory council, helping us with the  
17 design, look at the website, what type of design  
18 elements.

19 It is really about this whole training  
20 because the main thing with the patient-powered  
21 research networks, which I think is the future if  
22 we really want to do some amazing research that is

1 much more cost effective, right, is really being  
2 able to say you have all these patients who have  
3 data. All of us have data that we can give, right?

4           That data can turn into information based  
5 on how we get it and how we look at it, and that  
6 information is what is going to give us new  
7 knowledge. That knowledge hopefully will translate  
8 into how do we manage disease, how do we actually  
9 have certain types of socioeconomic patients who  
10 are suffering with various diseases, and how do we  
11 engage them. It will help us in different ways.

12           The most important thing that PCORI and  
13 PCORnet, and I know Sue and all the people are  
14 doing a great job, is we have to constantly be  
15 creating new ways of developing training, and what  
16 I call "patient development," patient partnership  
17 training.

18           It's not easy to be a partner. We don't  
19 necessarily know how to be a partner all the time.  
20 If we can actually draw on what my hope is, that  
21 PCORI starts to create a network that is a complete  
22 patient driven network, not patient organizations,

1 because what ends up happening is you end up with  
2 professionals and leaders who are patient  
3 engagement professionals. They aren't necessarily  
4 patients themselves, right?

5           If we can just have a network of patients  
6 throughout, and PCORnet could be one of the first  
7 examples of engaging all the patient leadership  
8 within PCORnet to help us create education and  
9 training networks that we can actually bring  
10 nationally to different groups around the country  
11 on how to best engage patients in the public  
12 sphere, not only the private, but the public sphere  
13 of advocacy.

14           Thank you very much. I'm out of time.  
15 Sorry.

16           CHAIRMAN NORQUIST: Thank you all very  
17 much. Do you want to make some final comments, and  
18 then we will open it up for other Board members.

19           MS. HUNT: Exactly. Thanks, Gray. I just  
20 wanted to start things off by saying I think this  
21 issue of the value discussion, which both of you  
22 really touched on as being a very important part of

1 what PCORI should be doing, you all think that, and  
2 I think we would kind of agree, and it kind of  
3 brings in what Celeste is saying, too, and that is  
4 how do we get to the patient outcomes, not just  
5 patient reported outcomes, because part of it is  
6 patient input, but get to patient reported outcomes  
7 that then translate to value. How should we be  
8 doing that in a way that is different from what  
9 PCORI is doing now?

10 MS. CRYER: I think that PCORI has set a  
11 tone, and set a certain floor for patient  
12 engagement and patient expectations as well as a  
13 specific model. No longer can various committees  
14 and agencies say that it can even be considered  
15 that they would have these discussions without  
16 having patients involved.

17 So, that helps get the foot in the door.  
18 Then being able to demonstrate through the  
19 different mechanisms we have worked with PCORI,  
20 with different stakeholders, that sort of takes  
21 away some of the argument about how patients  
22 wouldn't be able to participate in pharmacoeconomic

1 discussions and things like that.

2           Unless it is a medical intervention that  
3 is valuable to the patient, it really isn't  
4 valuable. Who else's priorities can creditably  
5 become ours? I think the work that PCORI has done  
6 has helped to sort of professionalize our advocacy,  
7 but also change the culture and expectations of  
8 other stakeholders on how they view and work with  
9 patients and patient advocates in a way that we can  
10 make much more progress in this value discussion  
11 than we would have been able to before.

12           MS. LEE: The only one thing I can say is  
13 I think PCORI work in tandem with the FDA and with  
14 other regulatory agencies and even NIH. I think it  
15 is really important that we have some patient  
16 reported outcome tools that have been tested, and  
17 that they very much have strong vigor, they can  
18 trigger -- I think that is going to go a long way  
19 in allowing us to do more work with patient  
20 reported outcomes.

21           MR. BOUTIN: The piece I would add to the  
22 responses you have received so far would be this.

1 The creation of PCORI in and of itself created a  
2 cultural ah-ha moment within the research  
3 community. Here's an entity that is substantially  
4 resourced, that is putting resources out into the  
5 community but saying you need to engage patients,  
6 you need to do it differently.

7 That changes culture. I think it was  
8 Winston Churchill who said "Culture eats strategy  
9 for lunch." What we are talking about are  
10 significant cultural changes. You had a huge  
11 impact on the research community, which is leading  
12 to the creation of some of these outcomes that are  
13 important to patients, but the data is only as good  
14 as it is used effectively in the delivery system.

15 We had the cultural ah-ha moment at the  
16 FDA when we mandated in the Prescription Drug User  
17 Fee Act number five that they had to hold 20  
18 meetings with patient organizations. They have  
19 held 16 of them, and for each of the 16, the FDA  
20 officials walked away saying what I thought was  
21 most important to patients was wrong. All the  
22 research that led up to that application and

1 eventual approval of product was based on  
2 assumptions that were not focused by the patients.

3           What we need is a cultural ah-ha moment in  
4 the entire health ecosystem. In particular, where  
5 patients are receiving care, and I would draw an  
6 even finer point, for that 20 percent of people  
7 with complex chronic conditions that drive 80  
8 percent of the costs, they are not getting access  
9 to the information that you are currently  
10 developing that will help them make that informed  
11 decision about what is the right clinical outcome  
12 for them given their circumstances and their goals.

13           We need to create that ah-ha moment, and  
14 one of the best ways you can do it is by entering  
15 that conversation of value, building out what a  
16 value model looks like in the United States.  
17 Something that is uniquely American. Something  
18 that is different. Something that engages  
19 patients, not to the exclusion of other  
20 stakeholders, but the opportunity for a new model  
21 done the PCORI way will take us to the place where  
22 we have that ah-ha moment, where we can then start

1 to realign the incentives and the models to drive  
2 this more effectively.

3           Huge opportunities, and in my mind, that  
4 is going to be your legacy, and that's going to be  
5 where you truly demonstrate lasting impact and  
6 relevance that will allow you to be a sustainable  
7 organization past 2019.

8           MS. HUNT: Ellen?

9           MS. SIGAL: I'm struggling for the right  
10 words, because I think I'm hearing similar messages  
11 but very different messages. You are disease  
12 advocate people that are dealing with a disease  
13 directly, and have a very different perspective on  
14 it. You know that because you know the granularity  
15 of your disease.

16           The value equation is important but it is  
17 also very granular. You mentioned the case of your  
18 father. I can give you examples of 15 or 20 maybe  
19 from last week of patients who have benefitted from  
20 treatments and lived to see a child's wedding or  
21 quality of life issues that were incredibly  
22 important.

1           The truth of the matter is we don't have  
2 the data. We don't have the data. The value  
3 equation is important, but without the real data on  
4 what is really important, without the PROs, without  
5 the tools -- we are doing this now. We're working  
6 on a label indication for FDA on PROs with the NCI.  
7 That should be easy. No. It's really hard because  
8 the disease model is different in every single  
9 disease and how you do it and generalize it is very  
10 difficult.

11           I think the other thing that I'm hearing,  
12 which I really agree with, is really framed patient  
13 advocates. People to really build that network. I  
14 can tell you we do these conferences all the time,  
15 and to get trained people, we keep on using the  
16 same old people because we don't even have a  
17 trained network of patients that can really speak  
18 up and who are frankly not intimidated by their  
19 physicians or not intimidated by sitting at a table  
20 like this and say look, I have a viewpoint and it's  
21 different than yours.

22           That is very complex, on trying to figure

1 out for us at PCORI how can we get granular enough  
2 to satisfy the needs of the patients, the real  
3 patients and what they want at different stages in  
4 their lives, and how we can contribute to that, and  
5 it's complex.

6 MS. LEE: It is. I'd just like to say I  
7 think what we are really talking about here is  
8 accepting risk/benefit, right. One of the projects  
9 I have been working on was really looking at trying  
10 to understand patients' preferences when it came to  
11 kidney disease, right, and how regulation happens  
12 in FDA.

13 To do that, the way we did that, you can't  
14 just go grab, contact all the kidney health  
15 organizations and say hey, send us 50 patients, we  
16 want to have this conversation, we want to try to  
17 assess risk/benefit, we want to hear what they are  
18 thinking, et cetera.

19 How we did that is we actually came up  
20 with an animated video that basically talked about  
21 what the FDA was looking at. We wanted patients at  
22 the table. We said if you are interested in this,

1 we're going to be doing these webinars, sign up for  
2 a webinar, different time zones, which basically  
3 were really user friendly.

4           They had patients on there that said hey,  
5 this is how the regulation works, this is the  
6 regulatory process, how devices get approved, drugs  
7 get approved. Gave it to them in really simple  
8 ways that they could relate to. Then we had a  
9 workshop that we invited 50 or 60 patients to come  
10 to have a much more productive conversation.

11           It was still a challenge. It was somewhat  
12 of a mechanism to say how do we get them interested  
13 to understand so we can really start to assess that  
14 risk/benefit.

15           As a 17-year-old female, my choices were  
16 very different and I made very different decisions  
17 than I would make now as a 50-year-old, right?

18           I think we have to build that into what it  
19 is that we are doing in risk/benefit. It is not  
20 going to be easy, and it is not going to be one  
21 size fits all. It's going to be from gray to black  
22 to white. It's going to go back and forth with the

1 same patients who at different points in their  
2 lives are going to assess risk differently.

3 MS. CRYER: I think your point is very  
4 well taken. My constellation of diseases is sort  
5 of a background in sort of the granularity  
6 discussion as well as how you generalize this. I  
7 think PCORI has a great role in terms of one,  
8 making sure that in these various formulas and  
9 algorithms there are patient-centered criteria that  
10 in some ways can be at a very sort of applicable  
11 level, and then in some circumstances, do need to  
12 be customized for the specific disease.

13 Just the fact of having them, to Marc's  
14 point about culture shift, and having a placeholder  
15 that is acknowledged that needs to be there for  
16 patients to contribute the elements of the  
17 algorithms is very important.

18 Then the emphasis on a basic level  
19 pipeline and CER training that can then perhaps be  
20 customized or added to by the different disease  
21 states, I think, is still an appropriate role for  
22 PCORI.

1           I remember serving at my very first FDA  
2 advisory committee meeting and realizing that it  
3 wasn't my training in the methodology of the data  
4 or having worked at a clinical trial recruitment  
5 firm, or actually having read the packet, unlike  
6 some of the other committee members, it was the  
7 fact that I had a legal background and that I was  
8 comfortable in that environment and comfortable  
9 speaking and integrating information and making  
10 hopefully a concise point.

11           I think there is a basic level of training  
12 for people who are doing CER in their daily lives  
13 and are not realizing it and labeling it as such,  
14 and helping them to translate that experience into  
15 comfort and confidence and participating in this at  
16 that first level, and then the advocacy  
17 organizations, I think, can help and support a  
18 partnership in taking it to that second level that  
19 is more granular.

20           MR. BOUTIN: Just very quickly, I want to  
21 respond. Ellen, I completely agree with everything  
22 you said. There is absolutely nothing that I would

1 take issue with.

2 I think it is "yes and," in other words,  
3 everything you said absolutely correct, there is no  
4 question about it. My greatest fear, especially  
5 when you look at the accomplishments that have  
6 happened at the FDA, and Friends of Cancer Research  
7 and you have been leaders in that. We have seen  
8 tremendous shifts in the biopharmaceutical sector  
9 where I believe we are going to get medicines in  
10 the very near future that respond to the outcomes  
11 of patients. That is huge.

12 What I am really afraid of in this current  
13 environment where we are defining "value" without  
14 patient input is we are going to develop systems  
15 where we don't get access to them or we are  
16 completely unaware.

17 When there are multiple treatment options  
18 that are available that have different outcomes  
19 that are relevant to patients, we should have a  
20 delivery system that helps us identify which ones  
21 are relevant to us given our circumstances and  
22 goals.

1           That was the point of what I was saying  
2 with my father. In his instance, and this was a  
3 number of years ago, less care would have been  
4 better care. For a lot of people with complex  
5 care, less care is better care.

6           In many instances, and we are seeing  
7 emerging data, it can provide huge savings to the  
8 system, which would allow us to have innovation in  
9 a way that responds to the needs of patients.

10           It's not one or the other. It's both. I  
11 completely agree with what you said.

12           MS. SIGAL: Push the companies and the  
13 relevant organizations to get more robust data so  
14 that when we have data, we can actually measure it.  
15 Right now, we just do not have the data. That is  
16 the complexity.

17           MR. BOUTIN: I completely agree with you  
18 again. The one point I would say is even where  
19 there is limited data, understanding a patient's  
20 outcomes, even at the end of life, allows you to  
21 structure their care in ways that are very  
22 different than we currently do.

1           Johns Hopkins, for example, has a great  
2 example where they deal with breast cancer  
3 primarily but also with other cancer issues, where  
4 they have incoming patients and they ask them what  
5 are their goals and objectives, what are their  
6 circumstances, and align care. Most people don't  
7 experience that.

8           DR. DOUMA: I want to thank all three of  
9 you. You have been doing great work for a long  
10 time. As people here know, I've been supportive of  
11 engagement for at least 25 years. I think it's  
12 core and critical not just to patients but to non-  
13 patients alike. We forget those sometimes.

14           I also agree, Marc, when you were talking  
15 about the need to prove value, and the way PCORI, I  
16 think, needs to prove value is by research, since  
17 we are a research organization.

18           My question to you if you could comment,  
19 what is the state of research and actually  
20 engagement causing better patient-centered  
21 outcomes, not input but outcomes, and to the extent  
22 that exists, what are the gaps and what can PCORI

1 do to increase that research?

2 MR. BOUTIN: Great question. I completely  
3 agree. You have to stick with what your core is.  
4 When I look at the portfolio of research, I'm  
5 seeing a lot of work on identifying issue reported  
6 outcomes, how to engage, how we look at the  
7 delivery system with shared decision making.

8 What I would like to see is us start to  
9 pull some of those aggregate individual pieces and  
10 bring them together, and do research -- I know  
11 you're doing research on systems and how they  
12 deliver care -- how do we evaluate systems more  
13 effectively to ensure patients' outcomes as they  
14 define them are actually being met. What are the  
15 impacts of that on outcomes, quality, and costs.

16 That is something that you can do within  
17 the spirit of the legislation. It's not  
18 comparative cost effectiveness research. It is  
19 what are the costs to the systems. I think there  
20 will be some instances where costs may go up, but I  
21 think there will be a lot of instances where costs  
22 will go down.

1           It's those sorts of data points that we in  
2 the patient advocacy community are going to need in  
3 2017, when we have a new Congress, new  
4 Administration. We know we have a huge expense in  
5 access to care now, which is huge from the patient  
6 perspective.

7           We also know there are two million people  
8 with undiagnosed chronic conditions. We know from  
9 history and experience that as people enter the  
10 insurance market, they don't effectively use that  
11 access for three to four years. We're just getting  
12 to the third and fourth year. We're going to see  
13 the costs go up and it's going to create political  
14 pressure.

15           In this country, our tradition is we jack  
16 up premiums, we use more utilization management  
17 techniques, we increase cost sharing. That doesn't  
18 serve people with chronic conditions. If we can  
19 find an alternative way to root out waste, to  
20 provide care that is actually patient-centered, if  
21 the data shows that there is a correlation, we have  
22 a different model to bring to policy makers.

1           The data that you can produce along those  
2 lines helps us do our work more effectively to  
3 align with other stakeholders.

4           MS. CRYER: I would just add to that.  
5 Right now, to Ellen's point about the data not  
6 being there, it starts with the research question.  
7 Because prior to PCORI patients were not involved  
8 in the development of research questions, we got  
9 answers and literature and so-called "evidence"  
10 that didn't address things that we cared about. We  
11 also had end points that were not relevant to  
12 patients.

13           I think that the PCORI model and  
14 assistance and support for patient generated  
15 questions and patient researcher partnership co-  
16 development of what research questions are asked  
17 and the prioritization of that and development of  
18 the end points for those research studies will  
19 result in better evidence that can be included and  
20 plugged into guidelines and the normal sort of  
21 accepted evidence process.

22           There is such a big gap and we come up

1 with such a barrier to be able to sort of make our  
2 case in whatever venue it is and saying well, the  
3 evidence doesn't show, because the evidence wasn't  
4 created with patients in mind at the beginning.

5           Keeping that patient generated  
6 participation in the development of the question  
7 and the endpoints is, I think, PCORI's strength and  
8 value in what you can continue.

9           MS. SIGAL: We were just at a meeting with  
10 Rick Pazdur, an open meeting. He's the head of  
11 Oncology at FDA. He said that's what matters, not  
12 the end point. What matters is what matters to  
13 patients. This was a crowd of FDA people, NIH  
14 people, companies and patient groups. He basically  
15 said that's the end point that's important.

16           If we don't start to ask patients what  
17 they want, what is the end point important to you,  
18 and measure it. This is coming from the Director  
19 of the overseer. This is something we have to do  
20 really a better job on. I agree with you.

21           I can see the way we design clinical  
22 trials on the trials I'm working on, these were not

1 answering questions that patients were truly  
2 interested in. We have to really look at the  
3 entire enterprise to do something that would be  
4 meaningful for patients.

5 DR. JESSE: We have been looking at this  
6 for a while. What intrigues me is the classic  
7 equation for value is quality over cost, and what  
8 we have really been talking about here is the  
9 enumerator, because quality is in the eye of the  
10 beholder. That is the real challenge, to sort  
11 through that and engage a patient.

12 The interesting thing to me is that costs  
13 always seems to revert to dollars, and there is  
14 nobody in this country who does cost accounting  
15 that can actually really figure that out, for one.  
16 Secondly, the real costs is not always in dollars  
17 from a patient's perspective. There is a  
18 transactional cost. There is the emotional cost.  
19 There is a temporal overlay on this.

20 Now, it's no longer a two dimensional  
21 equation, it's a three or four dimensional  
22 equation. That becomes a real challenge to express

1 to people in ways they can understand it, and it's  
2 really hard to measure.

3 My point is don't ignore the denominator  
4 when we talk about patient involvement in that  
5 equation.

6 MS. CRYER: I absolutely agree. I think  
7 what is often left out in the denominator -- the  
8 cost is the caregiver taking off work, a lot of  
9 indirect costs, filling in for gaps in the health  
10 care system, whether they are paying out of pocket  
11 or caregivers and things. There are a lot of costs  
12 from the patient viewpoint that often are not  
13 included in many of the calculation algorithms. I  
14 think that number could be expanded from a more  
15 patient-centered view in the same way, but the  
16 quality being redefined to a more patient-centered  
17 view would add to the equation as well.

18 DR. JESSE: I think from the patient's  
19 perspective, if you want to summarize it in one  
20 word, it's either certainty or uncertainty,  
21 depending on how you are looking at it. My  
22 definition of "patient-centered care" is

1 personalized certainty. That is really what we  
2 are trying to do in PCORI, provide as much  
3 information to answer the questions patients want  
4 answered, what's going to happen to me, what's  
5 going to happen to my loved one. What are those  
6 right answers in a very tangible fashion.

7 That is very different than the whole  
8 construct of precision medicine. There are many,  
9 many more dimensions involved.

10 CHAIRMAN NORQUIST: I think we have time  
11 for about five minutes more here.

12 MS. HUNT: [Off microphone.]

13 UNIDENTIFIED: [Off microphone.]

14 DR. JESSE: My sense of precision medicine  
15 is it is very analytical, and it's taking things  
16 that we can concretely measure like a gene, like a  
17 biomarker. It does not take into account, at least  
18 from what I'm hearing, the social determinants of  
19 health. It doesn't take into account family  
20 dynamics. It doesn't take into account the impact  
21 on workforce issues, jobs.

22 MR. BOUTIN: It is the basis of what we

1 call the "chronic care trifecta," which is the  
2 clinical outcomes, which is where precision  
3 medicine can lend and can help you with some  
4 certainty on the clinical outcome, but the personal  
5 circumstances are where the social determinants of  
6 health lie, where geography lies, where all the  
7 aspects that impact your ability to take advantage  
8 of the potential clinical outcome or to assess  
9 which clinical outcome is best, and then the third  
10 component is while you are living, what's important  
11 to you.

12           Those sometimes run counter to some of the  
13 clinical outcomes that are thrust upon patients.  
14 We have to account for all three in order to get  
15 this right from my perspective. PCORI is in all  
16 three areas. I think there are opportunities to  
17 bring them together into a value that helps people  
18 to understand that, because I don't believe the  
19 rest of the world has had that ah-ha moment yet.

20           DR. JESSE: Sort of an example that kind  
21 of brought this home to me is for our patients in  
22 Alaska, we can provide state-of-the-art oncology

1 care in Seattle.

2 [Laughter.]

3 DR. JESSE: Because it's really difficult  
4 to do in Alaska, they don't have the extent of the  
5 health care infrastructure to do it. What is the  
6 disruptive factor of doing that.

7 MR. BOUTIN: I use a great example of my  
8 relative who lives in Northern Maine who has a  
9 serious chronic condition, has a child with autism,  
10 a mom with Alzheimer's who is living with her,  
11 single mom working part-time at minimum wage  
12 without a high school education, very limited  
13 health literacy and eight hours away from an  
14 academic medical center.

15 Do not tell me that each one of those  
16 factors does not impact her ability to access care.

17 MS. HUNT: [Off microphone.]

18 DR. LAUER: Thanks very much. I'm Mike  
19 Lauer from NIH. I really enjoyed all three of your  
20 presentations. One of the biggest frustrations of  
21 clinical research is that only a very small portion  
22 of patients with various disorders actually

1 participate in clinical research. Typically, the  
2 numbers are less than 10 percent.

3           There is also an interesting irony which  
4 is that for some common conditions like heart  
5 failure, many of the patients who are enrolled in  
6 large scale trials come from Eastern Europe.  
7 They're not coming from the United States. What  
8 are your thoughts about that?

9           MS. CRYER: I think your clinical trial  
10 needs to be in your pocket. The Global Liver  
11 Institute right now is working with Apple on a  
12 Hepatitis C study. When you look at cell phone  
13 penetration in African Americans and the low-income  
14 communities, it's very high. When you look at the  
15 American Research Institute information on use of  
16 cell phones or the Smartphone to search for  
17 interactive health information, it's very high,  
18 again, usually in medically underserved  
19 communities.

20           I think that one of the answers, I would  
21 say, is meet people where they are, sort of a  
22 general principle. I built a clinical trial

1 division. Meet people where they are as sort of  
2 the general principle, and right now, they are on  
3 Smartphones.

4 I think that the research enterprise needs  
5 to move there.

6 MR. BOUTIN: Three quick points. I think  
7 your precision initiative where you want to enroll  
8 a million people is going to have huge  
9 ramifications in terms of education, which is a  
10 huge step in the right direction.

11 Second point, involve us in the  
12 development of the clinical research. To Ellen's  
13 point, often times clinical trials are developed in  
14 a way that make them virtually impossible for us to  
15 participate, given our current lives.

16 I'll leave it at that. Thanks.

17 MS. LEE: I would absolutely agree with  
18 that. I think when you get the stakeholders who  
19 you want to have participating in the clinical  
20 trial involved from the very beginning of designing  
21 the right trial, then downstream, it's going to be  
22 much easier to engage the patient population,

1 because you have links to them. You have also  
2 designed it in a way that doesn't make it  
3 burdensome to the specific patient population.  
4 That is why I think it is really crucial to have  
5 them involved in the design part.

6 MS. HUNT: Marc, Donna, and Celeste, thank  
7 you so much. We really appreciate you coming and  
8 talking to us about how PCORI can utilize the  
9 patient stakeholder more. Thank you.

10 [Applause.]

11 CHAIRMAN NORQUIST: Thanks very much.  
12 Robin, are you ready? Next, we have a report from  
13 Robin Newhouse from the Methodology Committee, an  
14 update. There will also be consideration for  
15 approval of revised and new standards that you are  
16 releasing for public comment at this point.

17 We just need to be able to approve you to  
18 release it for public comment? Is that what the  
19 issue is?

20 MS. NEWHOUSE: Yes, that's correct.

21 We're proud to provide a report of the  
22 Methodology Committee activities over the past

1 year. David Hickam is here with me. David has  
2 been our chief partner on staff who has helped us  
3 through the review process for the current  
4 standards. It's hard to believe that these  
5 standards were presented to you in 2012, and were  
6 released for public comment, and then began use in  
7 2013. Here we are in 2015, and it's time to review  
8 and revise our methodology standards once again.

9           That will be the major point of this  
10 presentation, to review the process that we use,  
11 give you a high level overview of our revisions, to  
12 review the process of review and voting with you,  
13 and then talk about the next steps in terms of  
14 revisions and release of the draft revisions for  
15 public comments.

16           We will be asking for you to vote for  
17 release of these revised methodology standards for  
18 public comment at the end of the presentation.

19           In terms of reviewing the process, this  
20 process used work groups to review the current  
21 methodology standards. In terms of the current  
22 standards, the good news is we have a lot of

1 experience with the standards in terms of public  
2 feedback and in terms of investigators using the  
3 standards to submit PCORI proposals.

4           The staff was pretty well informed about  
5 which standards they had questions about or which  
6 standards might use a little bit of tweaking or  
7 some revision in the language that was used to make  
8 it easier for investigators to apply those  
9 standards.

10           These standards were shared with the  
11 Methodology Committee, the revisions from the work  
12 group, which involved both PCORI staff as well as  
13 PCORI Methodology Committee members. They were  
14 then revised, brought back to the Methodology  
15 Committee over this past year at bi-weekly  
16 meetings. They were discussed, and sometimes there  
17 were multiple steps and repeated iterations.

18           At the point at which we were satisfied  
19 with the revisions, we had a face-to-face meeting  
20 scheduled on October 29. We all received a  
21 briefing book which reviewed our standard revisions  
22 and the draft standards. We all voted on the draft

1 standards, and any standards which had 11 positive  
2 votes were not reviewed at the face to face  
3 meeting. All standards that had some discrepancies  
4 or recommended revisions came back to the  
5 Methodology Committee at our face to face October  
6 29 in person meeting.

7           At the end of the day, we held a vote for  
8 those proposed changes. There were a couple of  
9 standards that needed a little more work. Another  
10 subgroup worked on those changes. They came back  
11 to the Methodology Committee meeting on November 9  
12 and we voted.

13           All standards that you have in your  
14 briefing book are the standards that have been  
15 revised and approved by the Methodology Committee.

16           In total, we made revisions to 25  
17 standards. We combined some standards. The good  
18 thing about this review is we were able to look at  
19 the flow of the standards, and we were also able to  
20 look for redundancy across standards.

21           We did find there were some standards that  
22 could be combined to make them more logical. One

1 standard was deleted because actually it had some  
2 overlap with another standard. Nine standards were  
3 unchanged. Three new standards were added to the  
4 existing standard categories, either because they  
5 needed to be broken out for other reasons or  
6 because there was something we wanted to add to the  
7 standard to make it clearer.  
8 There were five new standards related to designs  
9 using clusters.

10           For the most part, the rationale for any  
11 of the standards were really to clarify the  
12 language or to assure the alignment with the  
13 language that was being used within PCORI now. In  
14 some cases, it was to enhance statements that  
15 reflect the advances in methodology, and also to  
16 synchronize concepts across standards that were  
17 addressed.

18           This just gives you one example of a new  
19 standard that resulted in a standard process. This  
20 is from the causal model, causal influences. In  
21 this case, the recommendation was that we begin in  
22 Standard 1 by specifying that there needed to be a

1 causal model relevant to the research question  
2 specified.

3           That was just a brief description of the  
4 revisions to the current standards, but we also  
5 reviewed new standards, and those were standards on  
6 designs using clusters. You may remember that we  
7 hosted a work group of experts that came into the  
8 work group to make recommendations about a draft  
9 set of standards that were already drafted related  
10 to what is known about best practices in designs  
11 using clusters.

12           What you see before you are the five  
13 standards that resulted related to designs using  
14 clusters. I won't go into each and every one of  
15 them. They are in your briefing book.

16           Here are the standards. Once again, I  
17 will pause for a moment. Do you want Dave to make  
18 a comment here?

19           CHAIRMAN NORQUIST: [Off microphone.]

20           MS. NEWHOUSE: Okay. In terms of  
21 approval, our next step then is for you to make a  
22 recommendation that we can now post these revised

1 standards and new standards publicly. We will go  
2 through the same process as in the first set of  
3 standards. All public comments will be reviewed,  
4 processed, and categorized. Any revisions based on  
5 those public comments will be made to the  
6 standards. Those final standards will be brought  
7 back to you for approval before they are  
8 implemented.

9 I think the one thing I would like to add  
10 is the expected time line for feedback and  
11 revisions will be January through June 2012 [sic].  
12 In addition, there will be a Methodology report  
13 revisions as well.

14 CHAIRMAN NORQUIST: On that last point,  
15 how long is the comment period open?

16 MS. NEWHOUSE: 45 days.

17 CHAIRMAN NORQUIST: All right. Revising  
18 and then getting it back. There wouldn't be  
19 another comment period, you would revise based on  
20 that and then put them out; right?

21 MS. NEWHOUSE: No. After we have the  
22 comments categorized and we address each and every

1 comment, we make the revisions to the standards,  
2 then we bring them back. There is not a second --

3 CHAIRMAN NORQUIST: That's what I mean.

4 Let's have a motion to approve the release for  
5 public comment of the prepared new and revised  
6 methodology standards. If I could get a motion for  
7 that.

8 UNIDENTIFIED: So move.

9 UNIDENTIFIED: So move.

10 CHAIRMAN NORQUIST: I'll take one of those  
11 as a second. Now we can have a discussion. Any  
12 discussion? Harlan?

13 DR. KRUMHOLZ: I just want to make the  
14 point, first of all, how important this work is and  
15 how difficult it is to do, to bring everybody  
16 together and drive consensus. I wanted to start by  
17 acknowledging that.

18 Second, I just want to be sure that we are  
19 intently focused on the dissemination and  
20 application of this really good work. I've been on  
21 about the curriculum, and by not mentioning it, I'm  
22 not mentioning it again.

1 [Laughter.]

2 DR. KRUMHOLZ: I think we should be  
3 thinking about what software, what ways can we make  
4 this easy for people to use and to apply in study  
5 sections, in schools, for young researchers, and  
6 how can they find what they need. Right now, they  
7 are there, but I would love for us to invest as a  
8 group in some ideas, outsources, have a  
9 competition.

10 How can we take this body of information  
11 and figure out what the most efficient way to make  
12 it widely available and easy to use in ways that  
13 have not been done before. My worry always when I  
14 see this is this is really great work, it's not  
15 fully integrated enough into our application  
16 processes, not integrated enough into the  
17 dissemination piece so that students around the  
18 country and so forth can really leverage it.

19 You guys are the world's experts in this  
20 area. We have assembled amazing talent. They have  
21 been working with remarkable people in the PCORI  
22 staff. I just with the deepest feeling want to be

1 sure that we have done everything again -- it's all  
2 about the meta stuff today for me. Okay, we have  
3 done the main work, what are we doing around the  
4 edges of the funding, assessment, evaluation, and  
5 how is it being used ultimately so we can be  
6 accountable for not just having produced something  
7 that can be put in libraries, but actually  
8 something that will be used every day, what  
9 creative ideas, which could come from outside our  
10 field.

11 This is about talking to people who are  
12 experts in that sort of communication space. That  
13 is my two cents about saying I'm 100 percent behind  
14 this. I'm so excited that you have done this. I  
15 want to make sure it really becomes something that  
16 everyone can access, use, and integrate it into our  
17 work flows at every level.

18 CHAIRMAN NORQUIST: Allen?

19 DR. DOUMA: Really just a follow up on  
20 what Harlan was talking about. In our application  
21 process, how we do that will have a significant  
22 motivational impact on folks who apply to us and

1 therefore, presumably, other folks as well.

2 I was wondering if you could remind me of  
3 the two steps for the LOI and then for the  
4 application. There are 45 or 50 different  
5 standards in this document. Do our evaluators look  
6 at every standard and see whether or not that is  
7 covered under the application process at the LOI  
8 level or at the application level, and if not, is  
9 there any prioritization if number five is not  
10 there and number 20 is, that's okay? Can you talk  
11 a little bit about the nuts and bolts of how we  
12 actually carry this out?

13 DR. SELBY: David, you are in a better  
14 position than I am. Go ahead.

15 DR. HICKAM: Yes, thanks for that  
16 question. I think this is something that we have  
17 put a fair amount of effort into over the last two  
18 or three years.

19 First, in the merit review process, we  
20 have organized some materials to aid the reviewers,  
21 the merit reviewers, to refer to the methodology  
22 standards in evaluating applications for funding.

1           We have also instituted a process for  
2 those projects that move forward and are sort of on  
3 the launching pad for funding. There is a process  
4 by which staff evaluate alignment with the  
5 methodology standards, and essentially identify  
6 areas in which there may be certain problems for  
7 follow up. Those are directly communicated to the  
8 applicants, and we set up essentially a time line  
9 for them to provide revisions to their plans,  
10 having to do with the standards.

11           Now, we also have sort of a back end staff  
12 that we don't have as much experience with, which  
13 is to look at the standards again when projects are  
14 completed as sort of a preparation for that when  
15 there is actually a piece of the six month progress  
16 reports that do call out the methodology standards  
17 and any issues.

18           I think one of the good things about this  
19 is PCORI program officers are quite comfortable  
20 with discussing standards -- issues that are  
21 related to the standards when they have their  
22 follow up discussions with all the funded projects.

1 DR. DOUMA: Quick follow up on that. It's  
2 not the reviewers basically have a check off, here  
3 are all the 45 standards, this meets this standard,  
4 it doesn't meet that standard, and depending on  
5 what level the merit process is, it may get  
6 somebody calling the applicant or not. It's much  
7 more organic than that?

8 DR. HICKAM: Remember, there are a large  
9 number of methodology standards and reviewers kind  
10 of do their reviews based upon their own judgment  
11 about scientific issues having to do with an  
12 application.

13 That was largely why we put this second  
14 step in, for the projects that are moving forward  
15 on the path to funding, we deliberately put in a  
16 process to do the methodology standards review at  
17 that stage.

18 DR. SELBY: I have Leah and then Larry.

19 MS. HOLE-MARSHALL: Thank you. Thanks for  
20 the great work, always nice to see. It sounds like  
21 from the summary that it is mostly streamlining,  
22 more consistency, maturation and consistency with

1 other PCORI materials, now that we have had time to  
2 mature, related to these standards and changes. Is  
3 there anything that needs to be fast tracked  
4 because it is either an omission or something new  
5 that we have learned that we really want to plug a  
6 gap and that could be useful for funding  
7 announcements between now and six months from now?  
8 We might have to have a slightly different process.

9 I wholeheartedly support getting public  
10 input and making sure there are careful  
11 considerations, but sometimes we can do an interim  
12 process while we are finalizing that.

13 Is there anything from your perspectives  
14 that needs that kind of attention?

15 MS. NEWHOUSE: With the exception of the  
16 new standards, no. I would say it really was a  
17 matter of applying what we know works, and when the  
18 original standards were written, sometimes there  
19 was guidance and sometimes there was explanations,  
20 and it was taking the explanation and really  
21 refining.

22 Wouldn't you say -- David, would you

1 agree?

2 DR. HICKAM: I would agree. I think the  
3 major one is the standards on cluster designs,  
4 which we are seeing a lot of cluster designs being  
5 proposed for PCORI projects. Those are ones that  
6 seem it would be nice -- well, in fact, we are kind  
7 of referring to them already when we are evaluating  
8 those projects.

9 MS. HOLE-MARSHALL: I think in the PFAs  
10 that we are releasing, it would be good to mention  
11 that we have updated draft guidance and we would be  
12 looking at both and would welcome feedback, so that  
13 it's not necessarily mandated criteria that  
14 individual know and are aware of that, so that we  
15 are starting to incorporate --

16 DR. SELBY: We did that with the first  
17 round of standards, while they were posted for  
18 public comment, our PFAs referred to them and said  
19 something like you will not be held accountable for  
20 these but you are advised to check them.

21 MS. HOLE-MARSHALL: Correct. Should it  
22 pass today, I would suggest we do that.

1           The last one, we have talked a lot about  
2 these being kind of minimum standards to which we  
3 could all agree. Is there ongoing work for some of  
4 the more contentious or additional standards that  
5 we might want to look at beyond the cluster design  
6 ones?

7           MS. NEWHOUSE: Yes. We also discussed at  
8 our face-to-face nominations for new topics. We're  
9 going through a prioritization, as well as  
10 interacting with the Clinical Trials Advisory  
11 Panel. They are considering how these methodology  
12 standards can be used for clinical trials and what  
13 the gaps are as well, so yes, there is more  
14 discussion about what next. It's never done.

15           MS. HOLE-MARSHALL: Appreciate it. Thank  
16 you.

17           MR. BECKER: Thank you very much.  
18 Terrific work. On the curriculum, obviously people  
19 have created lots of curriculum, that all has to be  
20 updated. How does that happen, and is there  
21 funding needed to make that happen?

22           DR. HICKUM: Yes. It's a very good point.

1 We have developed a comprehensive curriculum based  
2 upon the current existing standards. My  
3 understanding is there will be some modest  
4 resources required to update that, since that was  
5 activity that was taken on by contractors.

6 MR. LIPSTEIN: -- they need to be updated?

7 [Off microphone.]

8 DR. HICKAM: The CME, I think, has been  
9 released. My understanding is it has been  
10 released. The curriculum, my understanding is it  
11 is about ready, but we do need to align it with the  
12 changes in the standards.

13 CHAIRMAN NORQUIST: Alicia?

14 MR. BECKER: Do we have a date for release  
15 or an estimated date?

16 DR. HICKAM: This is an estimate. My  
17 understanding is they are going to be ready by  
18 about the end of the calendar year, which is only  
19 about three weeks away.

20 CHAIRMAN NORQUIST: Alicia?

21 DR. FERNANDEZ: Congratulations, this is a  
22 great document, and I can't wait to share it once

1 it is released to our fellows and our research  
2 training programs. I think it really walks people  
3 in a great way through thinking about the different  
4 portions of a study design.

5 I have a question for you which is about  
6 subgroup analysis. I noticed the document deals  
7 with subgroup analysis in different portions,  
8 including in the section on heterogeneity of  
9 effect. My question is was there discussion  
10 amongst the Methodology Committee in terms of how  
11 specific versus non-specific to be, and was that an  
12 area that attracted particular interest and  
13 discussion? It's certainly an area that as an NIH  
14 study section member we struggled with.

15 MS. NEWHOUSE: Yes. I don't remember that  
16 discussion in the Methodology Committee itself. In  
17 the subgroup, are you aware, David?

18 DR. HICKAM: There was quite a bit of  
19 discussion of that issue. We had working groups  
20 for each category of standards in which those kinds  
21 of discussions took place. A large part of the  
22 thinking about revising the standards was how

1 general versus how specific to be.

2           Generally, it was striking a balance. I  
3 think you will see in some parts of the revisions,  
4 for example, that new standard that has to do with  
5 causal inference, it really is actually upping the  
6 bar, it's pushing for more detail about causal  
7 inference models. I would say generally a lot of  
8 the changes did have to do with trying to push  
9 forward a bit in terms of more specificity and more  
10 detail.

11           MS. NORQUIST: The CME will be updated at  
12 some point.

13           DR. HICKAM: Just to make sure you  
14 understand, the plan is in place to update the CME  
15 modules to reflect the new standards. My  
16 understanding is the way those were designed,  
17 that's a fairly straightforward process. It's kind  
18 of like replacing the voice over and perhaps  
19 replacing some of the screen images on that.

20           CHAIRMAN NORQUIST: Harlan, is your tent  
21 card up?

22           DR. WEISMAN: Yes. I was reflecting back

1 on earlier when we were hearing about the PPRNs,  
2 patients being more actively engaged in research  
3 and generating research. By the way, I think the  
4 standards are great, and I'm really glad to see the  
5 new ones as well as the revisions.

6 I read something like the example that was  
7 given on specify the causal model underlining the  
8 research question and all the things that are being  
9 asked for within that, and I'm wondering how a PPRN  
10 would even understand that paragraph.

11 What are the efforts that are being  
12 undertaken, I guess, to not only bring the standard  
13 group of researchers on board with this and educate  
14 them, but also the atypical or non-traditional  
15 researchers whom we want to be participating and  
16 actively engaged in PCOR?

17 DR. HICKAM: I'm happy to answer that.  
18 Honestly, I think you're speaking to the importance  
19 of an interdisciplinary approach to research. If  
20 you have people who are less familiar with these  
21 concepts but are getting involved in patient-  
22 centered outcomes research, we should expect and

1 hope to facilitate that they have the right kind of  
2 partnerships with expertise that can help them  
3 through these issues.

4           We want there to be solid science in all  
5 of PCORI research, and that is kind of the point of  
6 the methodology standards. We just need to get the  
7 right people together.

8           DR. WEISMAN: What is our plan for that?

9           UNIDENTIFIED: I'm sorry. One of our  
10 fiscal year 2016 budget items that went through the  
11 EIDC was to develop a team science training module,  
12 so that would be one way, and also a separate  
13 training module for just patient participants as  
14 well. That is going to be happening over 2016.

15           CHAIRMAN NORQUIST: I think the key issue  
16 particularly in the patient module to translate it  
17 into English basically, kind of common language.

18 Harlan, did you have anything else?

19           DR. WEISMAN: No.

20           CHAIRMAN NORQUIST: Okay. I don't see any  
21 other tent cards up, unless I'm missing them. Any  
22 final statements here, Robin, you want to make?

1 MS. NEWHOUSE: Just a couple of things  
2 just briefly to say how much the Methodology  
3 Committee is engaged in some of the other  
4 activities. You already heard about the PCORnet  
5 subgroup that is working on data quality and  
6 holding an expert meeting on December 10.

7 In addition, we are still working on new  
8 standards for complex interventions, evaluating  
9 multi-component, multi-level interventions led by  
10 Brian Mittman, more to come in that arena, as well  
11 as activities around the Patient-Centered  
12 Measurement Work Group that are working toward  
13 enhancing guidelines for incorporating patient  
14 reported outcomes in the electronic medical record.

15 I think the work on the Usual Care Work  
16 Group -- Hal, I'm going to turn to you -- is  
17 complete, and then will we do any kind of report  
18 back to the Board on the Usual Care activities. I  
19 know we just talked last week. I had a precursor  
20 of the end of the work.

21 DR. SOX: [Off microphone.]

22 [Laughter.]

1 DR. SOX: This is Hal Sox. I'm the Acting  
2 Chief Science Officer. The SOC approved the Usual  
3 Care policy some months ago, which basically is if  
4 you want to use usual care as your comparator, you  
5 really have to work hard to convince -- a single  
6 identified comparator. If you decide to use usual  
7 care, then you have to measure that usual care in  
8 every patient and in really both groups but  
9 specifically in the usual care group. That is our  
10 policy.

11 We are working on an article that reviews  
12 what has been said about the topic of usual care  
13 and plan to write that up as sort of a rationale  
14 for our policies, sort of turning the usual thing  
15 on its head and having the policy first and the  
16 rationale afterwards.

17 MS. NEWHOUSE: Thank you. I think the  
18 last topic was one we have already covered in terms  
19 of the dissemination activities, the academic  
20 curriculum and the CME initiative. Certainly  
21 appreciate the comments about how to advance  
22 dissemination of these activities.

1 With that, I will close.

2 CHAIRMAN NORQUIST: Okay. Thanks. Since  
3 we have a motion and a second, I just need a voice  
4 vote. All those in favor?

5 [Chorus of ayes.]

6 CHAIRMAN NORQUIST: Anybody opposed?

7 [No response.]

8 CHAIRMAN NORQUIST: Does anybody abstain?

9 [No response.]

10 CHAIRMAN NORQUIST: Okay. It passed.

11 Christine, you have more time than you may need, I  
12 don't know. The next item is the revised Selection  
13 Committee Charter. Christine Goertz is the chair  
14 of the Selection Committee and will present this.

15 MS. GOERTZ: Thank you, Gray. I actually  
16 believe I have been asked to present this as chair  
17 of the Science Oversight Committee, although I am  
18 also the chair of the Selection Committee. I just  
19 want to put my conflicts out on the table right  
20 from the very beginning.

21 There are five clarifications or changes  
22 that we are recommending to be made to the

1 Selection Committee Charter. The first is that the  
2 charter was approved by the Board in July of 2014  
3 and I think it provided a very sound framework for  
4 the work that we have done over time. However, we  
5 are realizing there are probably some updates that  
6 would be warranted regarding more flexibility to  
7 respond to changing needs and cycles and to reflect  
8 the responsibilities of the committee a little more  
9 clearly.

10           There are really five areas where change  
11 is recommended. I believe there is a draft in your  
12 materials. Just really briefly, the first thing  
13 the Charter does is codify that the Selection  
14 Committee's charge is to make recommendations for  
15 funding the targeted funding announcements as well  
16 as the pragmatic and broad announcements.

17           The second thing that it does is it  
18 increases the number of members of the committee up  
19 to 10 before --

20           UNIDENTIFIED: There are slides here.

21           MS. GOERTZ: Do we need slides? The next  
22 is to change the number of members. Before, we had

1 to have exactly six members. Now, it says we have  
2 somewhere between three members and 10 members, and  
3 that Methodology Committee members may be appointed  
4 but Board members have to be a majority, and also  
5 the SOC chair is no longer required to serve on the  
6 Standing Selection Committee.

7           The reason for changing the number of  
8 members is -- a couple of reasons. First of all,  
9 one of the issues we have had in the past with six  
10 members is at times you have had difficulty with a  
11 quorum, just because people had conflict or we have  
12 had to have meetings over holidays that made it  
13 difficult for people who were members to  
14 participate. Wanting a little bit more flexibility  
15 with perhaps having more members.

16           There has been some discussion about what  
17 is the role of the Selection Committee in making  
18 recommendations to the full Board, and interest  
19 perhaps in more Board members having a chance to  
20 get more involved in Selection Committee processes.  
21 This provides an opportunity for Board members who  
22 might be interested in being involved on the

1 Selection Committee to actually do so.

2           The third is to provide more flexibility  
3 in assigning ad hoc members to the Selection  
4 Committee itself based on expertise or need for a  
5 quorum, and also some flexibility in providing ad  
6 hoc Selection Committee members, ad hoc Selection  
7 Committee meetings themselves.

8           For instance, if the regular Standing  
9 Selection Committee is not able to meet to talk  
10 about a slate of recommendations either because  
11 they may not have the particular expertise or there  
12 may be just too much of a workload, this Charter  
13 provides flexibility in appointing ad hoc Selection  
14 Committees that would be able to perform that role  
15 as well.

16           The SOC chair is no longer required to  
17 serve on the Standing Selection Committee. It also  
18 makes the chair term's more consistent with some of  
19 the other committees that are in PCORI.

20           Finally, the Charter clarifies the issues  
21 that the Selection Committee will consider as they  
22 make funding recommendations to the full Board.

1 You can see that the Selection Committee will  
2 consider several factors, including Merit Review  
3 Panel scores on scientific program staff  
4 recommendations, programmatic fit and portfolio  
5 balance, duplication of funded research, and then  
6 methodological concerns.

7 CHAIRMAN NORQUIST: Why don't we get a  
8 motion to approve?

9 DR. LAUER: So move.

10 CHAIRMAN NORQUIST: Thanks, Mike. Second?

11 MR. BECKER: Second.

12 CHAIRMAN NORQUIST: Larry. Now, we can  
13 have a discussion, questions, comments. Allen has  
14 his tent card up.

15 DR. DOUMA: Can we go back to a previous  
16 slide? This slide takes us back to what we were  
17 talking about, about the evaluation metrics. Lori  
18 was talking to us earlier. The question raises the  
19 issue of you are supposed to make selection based  
20 on programmatic fit and portfolio balance. Does  
21 that call in use of our database to figure out how  
22 to do portfolio balance, number one.

1           Number two, how are we going to define or  
2 know when we have reached portfolio balance? Is  
3 that going to be part of the Selection Committee's  
4 training? I'm not sure I could do it.

5           MS. GOERTZ: Leah is raising her hand. I  
6 can make some comments, too.

7           MS. HOLE-MARSHALL: We have been using the  
8 cluster analysis to date, which is the precursor to  
9 having the full data work completed, and we have  
10 requested to separate the broad announcements,  
11 which from the Selection Committee we are still  
12 blinded to, unless they are outside of score order.

13           This is primarily for the more targeted  
14 investments that are significant resource wise, and  
15 we want information about how it fits within our  
16 current portfolio. We asked the program officer to  
17 provide us with some information, and we will now  
18 be able to use basic data from the cluster analysis  
19 to see that.

20           CHAIRMAN NORQUIST: Isn't part of the  
21 issue you will have some investigator initiated in  
22 the broad and you will have the targeted, and part

1 of the portfolio balance issue is if we have a  
2 large targeted announcement, I don't know,  
3 Hepatitis C, and we have five applications on the  
4 broad, then one would say we really don't want to  
5 fund these five other applications that may have  
6 good scores but yet are duplicating what we are  
7 trying to do in the large things. That is part of  
8 the portfolio balance question, I think, in some  
9 ways.

10 Yes, anything that can help us understand  
11 what we actually have in our portfolio right now so  
12 we can look at that is very helpful, whatever that  
13 mechanism is.

14 MS. GOERTZ: PCORI staff already cue up  
15 sort of the pro's and con's of awarding any  
16 particular application, and part of that is the  
17 issue of portfolio balance. I think the tool that  
18 Lori and her team has put together will be really  
19 helpful in facilitating the discussions that we  
20 have around that issue.

21 CHAIRMAN NORQUIST: I think that does  
22 bring up the other bigger question of where do we

1 want to be in the next three to four years, and  
2 what are some of those things we really want to  
3 push. That is still to be determined. There may  
4 be some gaps we are still looking for, but if there  
5 is nothing in there that can fill that gap, that's  
6 a whole other issue.

7           Alicia, I think, was next, and then Bob  
8 Zwolak.

9           DR. FERNANDEZ: Thank you. I'm a little  
10 worried that we are in the post lunch phase.

11           CHAIRMAN NORQUIST: Yes.

12           DR. FERNANDEZ: Postprandial hypoglycemia.

13           CHAIRMAN NORQUIST: I hear you.

14           DR. FERNANDEZ: The reason that I'm  
15 concerned about it is in my mind, and maybe it's  
16 only in my mind as a member, as one of the members  
17 of the Selection Committee, what is before us is  
18 really a way to have people decide whether or not  
19 they feel comfortable with the Selection Committee  
20 operating in almost in lieu of the full Board.

21           In other words, in my mind, this is  
22 connected to does it really make sense for us as a

1 full Board to say oh, when we look at the slate,  
2 wait a minute, that third study, what is the  
3 comparator on it, you know, which doesn't seem to  
4 me has made a lot of sense.

5           What I think this partly reflects, and  
6 again, maybe this is only my view, is not only  
7 having the Selection Committee work more  
8 efficiently and achieve a quorum and have the  
9 necessary expertise, but also to allow people to  
10 feel like oh, yes, this is a fine delegation of  
11 activities, and when the Selection Committee comes  
12 through and says oh, we have studies one through  
13 five, to feel okay with it.

14           Christine, could you comment on whether it  
15 is only in my mind that these things are linked,  
16 and for those of you who are on the broader Board  
17 and not on the Selection Committee, were these  
18 things to be linked, is this a good revision of the  
19 Selection Committee Charter? Does this feel  
20 appropriate, inclusive, correct?

21           MS. GOERTZ: I think you bring up an  
22 important point that we share and obviously some of

1 these changes were made in response to the  
2 discussion that the full Board had at our last  
3 meeting about what is the role of the Selection  
4 Committee, what is the responsibility of the full  
5 Board, and that is part of the rationale for  
6 increasing the number of Board members.

7 I believe it would be accurate to say that  
8 this charter assumes that the Selection Committee  
9 would continue to have the majority of  
10 responsibility for carefully vetting our grant  
11 applications and making recommendations to the full  
12 Board.

13 This Charter is not recommending a change  
14 in what is our current procedures, but what it is  
15 doing is it provides more flexibility so that more  
16 Board members who really are concerned or would  
17 like to be more involved, I should say, in how our  
18 applications are selected and recommended to the  
19 Board. It basically provides those people with an  
20 opportunity to sit on the Selection Committee.

21 CHAIRMAN NORQUIST: They are perfectly  
22 linked. It is linked that way because the issue

1 has been always what can we do in this Board  
2 meeting, in this room, in a public session, with  
3 approval of grants, and we are going to talk about  
4 how that is a fiduciary responsibility, but the  
5 issue of if you really have a concern about the  
6 quality and what's happening, and we need to have a  
7 process, the process is the Selection Committee,  
8 but we need to open it up basically so that those  
9 Board members who really don't feel comfortable  
10 having a general vote of just as a fiduciary issue  
11 need to get engaged at the Selection Committee.  
12 We have expanded the number who can be on there to  
13 open it up for those who feel that way.

14           The other issue is quite honestly, it was  
15 a practical issue, that there was too small of a  
16 number and we were having too many recusals and  
17 stuff as the Selection Committee members got into a  
18 little more detail, so that impeded some ability  
19 for the Selection Committee to function, quite  
20 honestly.

21           Barbara?

22           DR. McNEIL: Two comments, and the first

1 one is I agree with these responsibilities by and  
2 large, but I have one little caveat. Suppose a  
3 really critical question came up for which there  
4 was a well designed study that actually tipped the  
5 portfolio out of balance, so we were now putting in  
6 lots more money in one area, neurodegenerative  
7 disease. I'm making something up. I have no idea  
8 what it would be. Some neurodegenerative disease  
9 where we already had lots of stuff in that area.

10           Wouldn't that be okay, that makes me think  
11 the portfolio balance shouldn't be a dominant  
12 factor in some of the criteria, in our criteria, if  
13 we actually have excellent studies that come in  
14 that were answering critical questions that are in  
15 an area that may already have some rich set of  
16 studies in it.

17           The second question is however we accept  
18 this or whatever, if this Board agrees with those  
19 criteria and if the Selection Committee has made  
20 its judgment on the basis of those criteria, why do  
21 we have to review the grants at the Board level,  
22 because we have been talking about trying to speed

1 up the process.

2           CHAIRMAN NORQUIST: We need to at least  
3 approve the outlay of the funds, as a fiduciary.  
4 The other issue that may come up is you may come  
5 back as the Selection Committee and say to the  
6 Board, in this example of a neurodegenerative  
7 disease, you know, we would like to put an extra  
8 \$20 million in of where we are over for this  
9 reason. I think then you're asking the Board from  
10 a fiduciary responsibility to say yes, we believe  
11 that's a good expenditure of the funds in that  
12 direction.

13           That is what we are really voting on as a  
14 Board, not on the actual whether this is a good  
15 grant or not.

16           DR. McNEIL: If I could just push that one  
17 step farther, suppose that was not the case,  
18 suppose all of the grants that the staff brought  
19 forward that had been approved by the Selection  
20 Committee didn't require any additional expenditure  
21 of funds, just pretend.

22           What is the marginal gain of this Board

1 saying I approve?

2 CHAIRMAN NORQUIST: You are still -- there  
3 is a new expenditure. Every time you bring in a  
4 new group of grants, there is a new expenditure of  
5 money. Do you see what I mean? Every time, it's  
6 like an outlay. We are just simply approving that  
7 outlay.

8 I'm going to exaggerate now. We could  
9 say, you know, we don't want to spend any money  
10 this cycle on grants, we want to spend it all the  
11 way over here on some other area or something.

12 DR. McNEIL: All right. This could be  
13 part of another discussion.

14 CHAIRMAN NORQUIST: Yes.

15 DR. HICKAM: I think there is actually a  
16 statutory issue that comes into play, too, to the  
17 extent that the statute provides the authority to  
18 this body. It becomes an issue of if this body  
19 tries to delegate its legal authority to another  
20 entity that doesn't constitute a quorum and it  
21 isn't subject to the open meetings and that sort of  
22 thing.

1           That is why I think it ultimately needs to  
2 come back to this body.

3           CHAIRMAN NORQUIST: Yes, that's true. On  
4 some level, you want the whole Board to be aware of  
5 what is being expended, even if there is a  
6 statutory. Bob?

7           DR. ZWOLAK: I was just pleased to hear  
8 the answer to Alicia's question. Mine was exactly  
9 the same as hers, and if I understand the response,  
10 people who feel the obligation to look more into  
11 the details of these individual grants can  
12 volunteer to serve on the Selection Committee.

13           CHAIRMAN NORQUIST: Let me be clear,  
14 volunteering to be on the Selection Committee does  
15 not mean you show up at one meeting and never show  
16 up again. That means participating on the  
17 Selection Committee. This group is really doing  
18 hard work, and I think that is important. Harlan?

19           DR. KRUMHOLZ: Here's a friendly amendment  
20 to that idea, which is it may be there are  
21 particular grants for which there is a reason that  
22 someone wants to raise it to the Board level, and

1 they can't either put in the time or they aren't on  
2 the Selection Committee.

3 I think there should be an ability for  
4 that information to come out in advance, someone to  
5 go to you and Joe and say I just wonder if we could  
6 talk about this. Just for the Board, there is the  
7 freedom to say on a routine basis, we should scan,  
8 it's our responsibility to look, and we should do  
9 that ahead of the meeting, so it's not just being  
10 presented but there is some ability to say here's  
11 what we are going to be voting on.

12 If somebody wants to pull something out to  
13 talk about, in that pulling out, there might be an  
14 opportunity to engage with either the chair of the  
15 Selection Committee or somebody else, which would  
16 resolve it before it got to the Board, or someone  
17 says I think this is raising a larger issue that we  
18 should be talking about, whether it is about  
19 balance or something else, that there is the  
20 capacity for someone, as there is for virtually any  
21 topic, to come to the chair and say do you mind if  
22 we spend a little time just talking about this.

1           CHAIRMAN NORQUIST: Right. I would just  
2 like to have a process where that was done in  
3 advance, so there was a clear discussion with the  
4 Selection Committee who probably had had a lot of  
5 this discussion, so we didn't take it up here  
6 because we run into some very difficult issues if  
7 we start exposing a particular grant in this open  
8 session so to speak.

9           DR. KRUMHOLZ: Yes. It could be resolved  
10 before it comes here, but any Board member still  
11 has the opportunity to say I want to talk about an  
12 issue or something.

13           MS. GOERTZ: I think that would be more of  
14 an SOP than an issue for the Charter, wouldn't it?

15           DR. KRUMHOLZ: Absolutely.

16           CHAIRMAN NORQUIST: Yes. Bob, Jesse, and  
17 then Rick, and then Mike.

18           DR. JESSE: Mike was raising his hand,  
19 too. I'm probably going to defer to him for the  
20 answer. At NIH Council, we don't vote on  
21 individual grants, but we do have to approve grants  
22 over a certain threshold, grants that go to foreign

1 entities, and there is a couple of other things.

2           It can usually be done as a bloc vote, and  
3 then if it does have to be discussed -- all of that  
4 is not done in an open session. It's done in a  
5 closed session.

6           CHAIRMAN NORQUIST: Right, very different  
7 for NIH, their process. Their advisory council is  
8 not open, it's not a public session. That is what  
9 is different about us. I think we need to remember  
10 the difference there, and they do have an open  
11 session where they hear about other things, but  
12 when they vote on the grants, it's completely not  
13 in a public session.

14           UNIDENTIFIED: Ours have to be open here  
15 at PCORI? Does it have to be open?

16           CHAIRMAN NORQUIST: Yes. For fiduciary  
17 responsibility, it has to be open.

18           MS. GOERTZ: I would argue that actually  
19 the work of the Selection Committee is similar in a  
20 lot of ways to the work of an NIH --

21           CHAIRMAN NORQUIST: Yes, let me be honest,  
22 that is what we were really trying to create here,

1 kind of a mini-advisory council that is not public,  
2 but then the overall Board votes on that part.

3 Rick?

4 MR. KRONICK: In response to Harlan and  
5 then a question. Harlan, if any of us see a name  
6 of the grant that seems problematic, having some  
7 ability to discuss that ahead of time makes sense.  
8 It is the kind of one-sided view, that we don't get  
9 to see the things that are not funded, so it might  
10 help a little bit.

11 My question is it would be useful for me  
12 at least to have a sense of to what extent we have  
13 grants funded out of priority score order, and that  
14 might be information that has been presented but I  
15 don't remember.

16 CHAIRMAN NORQUIST: It is usually  
17 presented to the Board, we know that occasionally.  
18 Christine?

19 MS. GOERTZ: I would say that in every  
20 round there are a very small handful of  
21 applications that are not in priority score order  
22 or we skip over some applications that have a

1 better score to fund something with a little bit  
2 lower score because it's of such high programmatic  
3 interest to PCORI, or on occasion, we have skipped  
4 over a grant that had a very big score again  
5 because it was a lower program priority.

6 I would say when we do go out of priority  
7 order, that is the majority of the discussion that  
8 the Selection Committee has, those applications  
9 that are not in order. I would say most of our  
10 applications that we fund are in priority score  
11 order but it is also common for there to be a few  
12 that are not.

13 MR. KRONICK: A histogram, if you look at  
14 like percentile, you know, what extent are grants  
15 funded out of score order.

16 MS. GOERTZ: We can put those numbers  
17 together. I have never seen it across all the  
18 realms.

19 CHAIRMAN NORQUIST: That's a good idea.  
20 Allen?

21 DR. DOUMA: Two things. One is a comment,  
22 I apologize. In the document, it talks about in

1 one case "any standing committee" and in another  
2 case, "a standing committee." It is an edited  
3 change to "the standing committee" in a number of  
4 places. Just need to do that to make it  
5 consistent.

6 The question I have is in looking at the  
7 portfolio balance, do we consider the dollar value  
8 or the number of patients covered or simply the  
9 disease state itself?

10 MS. GOERTZ: Portfolio balance is a  
11 relative term. You saw earlier today the number of  
12 applications that we funded in different areas,  
13 such as mental health, for instance, is where we  
14 have the largest number of funded applications.  
15 You see as you go down, those are not in balance.  
16 We are not trying to fund exactly the same dollar  
17 amount or the same number of applications in an  
18 area.

19 Portfolio balance is really a pretty  
20 relative term. Where we have discussed it in terms  
21 of the Selection Committee really has to do with  
22 times when we have -- one instance that really

1 sticks out in my mind is we had two applications  
2 that had a similar score, both on a similar topic,  
3 but we felt that was an area where we really only  
4 needed one application in that area, not two that  
5 were somewhat duplicative.

6 We chose to only fund one in the interest  
7 of portfolio balance. That is more of how that  
8 comes into play rather than trying to really  
9 balance our portfolio in the way you might be  
10 thinking. Does that make sense?

11 CHAIRMAN NORQUIST: Join the Selection  
12 Committee.

13 DR. DOUMA: I understand what you're  
14 doing. I think portfolio balance, particularly in  
15 the last three or four years of our existence, is  
16 probably more important than it has been.

17 MS. GOERTZ: Right.

18 DR. DOUMA: Maybe it ought to be elevated  
19 a little bit more.

20 CHAIRMAN NORQUIST: Also, I think that is  
21 part of the discussion that we had earlier about we  
22 should know at the full Board what overall we are

1 spending our money on, and I think those are the  
2 bigger questions for the Board to think about.  
3 Maybe we have too much in a given area. Not to the  
4 specifics of an individual grant.

5 MS. GOERTZ: I would argue that is  
6 actually an issue for our research funding strategy  
7 rather than for the Selection Committee.

8 CHAIRMAN NORQUIST: Right; exactly.

9 MS. GOERTZ: I wouldn't try to address it  
10 with this Charter.

11 CHAIRMAN NORQUIST: No more tent cards.  
12 We can do this on a voice vote. All those in  
13 favor?

14 [Chorus of ayes.]

15 CHAIRMAN NORQUIST: Anybody opposed and  
16 anybody abstaining?

17 [No response.]

18 CHAIRMAN NORQUIST: Okay. It passes.  
19 Instead of a 15-minute break, you get a 20-minute  
20 break. We start back at 3:30 Eastern Standard Time  
21 for those on the phone.

22 [Recess.]

1           CHAIRMAN NORQUIST: The next topic is Lori  
2 Frank -- back again with Laura, and this will be an  
3 update on the merit review analysis. Laura, are  
4 you going to do it by yourself?

5           MS. FORSYTHE: I am.

6           CHAIRMAN NORQUIST: Okay, Lori is taking a  
7 break. Fine. You are free now.

8           MS. FORSYTHE: Thank you very much.

9           CHAIRMAN NORQUIST: Laura Forsythe, for  
10 those on the phone. I realize I didn't say your  
11 whole name. Okay.

12           MS. FORSYTHE: Thank you. It's been a  
13 real pleasure to provide you with regular  
14 evaluation updates, and the focus of today's topic  
15 is our merit review score analysis. I hope you all  
16 feel revived and energized for a very interesting  
17 discussion.

18           What I am going to do is first give you  
19 some background about the evaluation of PCORI merit  
20 review more broadly, and then I'll share some  
21 specifics on what we have learned to support  
22 ongoing assessment of our merit review related to

1 impact of the in-person discussion, as well as  
2 prediction of funding decisions and final review  
3 scores.

4           The first thing I want to do is recognize  
5 this work really started with efforts from Rachael  
6 Fleurence and other folks at PCORI when an analysis  
7 was done of PCORI's very first review cycle, and  
8 that work was published in the Annals of Internal  
9 Medicine in 2014.

10           There are two main things that paper  
11 reported on that I want to remind you about. The  
12 first is that agreement among different types of  
13 reviewers on how they scored their proposal was  
14 limited coming into the discussion but improved  
15 throughout the course of the discussion.

16           The second is that we showed that PCORI  
17 funded a different set of proposals having used a  
18 two-phase review that involved patients and  
19 stakeholders in the second phase than would have  
20 been funded if we used only one phase of review  
21 with only scientists.

22           This paper provided some important

1 learnings, and also highlighted some necessary  
2 future direction, including to replicate the  
3 findings with additional cycles of review, as well  
4 as to answer some additional questions like to what  
5 extent is there emphasis on technical merit in a  
6 review that incorporates patients and stakeholders  
7 along with scientists.

8           The other thing that I want to recognize  
9 is the contributions of a special work group that  
10 we put together for this effort. We had the  
11 pleasure of having Christine Goertz and Mike Lauer,  
12 as well as some of our science program directors,  
13 Yin-Ping Chang and Steve Clauser, and our PCORI  
14 evaluation and analysis staff, to come together to  
15 provide expert input on this work.

16           They helped us to decide what were the  
17 appropriate research questions and the right  
18 message to answer those questions. They helped us  
19 interpret the findings and to consider the  
20 implications for PCORI, as well as to plan out our  
21 dissemination strategy.

22           Before we go any further, I think it is

1 important to remind everyone who is listening what  
2 makes PCORI review unique. The first thing, of  
3 course, is that we involve and bring together  
4 scientists, patients, and stakeholders in review,  
5 so every proposal is reviewed by one patient, one  
6 stakeholder, and two or three scientists, and they  
7 first provide a detailed written critique of the  
8 proposal, and then we bring together all of those  
9 people to discuss the highest scoring proposal.

10 We ask them to bring to the discussion  
11 their own unique views as well as to listen to and  
12 consider the diverse perspectives of the others in  
13 the discussion.

14 The second thing that is unique about  
15 PCORI's process is the review criteria. In  
16 addition to impact of the condition and technical  
17 merit, PCORI includes the potential for the study  
18 to improve health care and outcomes, as well as  
19 patient-centeredness, and the approach for patient  
20 and stakeholder engagement as review criteria.

21 The scientists score all five of these  
22 criteria. The patient and stakeholder reviewers

1 are invited to score all five, but are required to  
2 score the three that you see in bold here.

3 PCORI set up its review process in this  
4 way with this level of stakeholder involvement  
5 because PCORI believes that research is most likely  
6 to have an important impact on patient health care  
7 if all of those people, the patients and the other  
8 stakeholders are involved at every step of the way,  
9 including in reviewing proposals, but the level of  
10 stakeholder involvement that we have is very  
11 unique, and there are some unanswered questions,  
12 like how do you balance the perspectives of all  
13 these different views at the review, and to what  
14 extent is technical merit provided in the review  
15 process.

16 The work I'm going to share today is one  
17 way that we can look and see how well PCORI is  
18 doing in going about achieving what we set out to  
19 do in terms of integrating these different  
20 perspectives on these unique criteria.

21 We set out to answer some questions  
22 including what is the impact of the in-person

1 discussion on reviewer scores and on agreement  
2 between reviewers, which criteria contribute most  
3 to the prediction of our funding decisions and  
4 final review scores, as well as to look at the  
5 relationship between the merit review criteria,  
6 including by reviewer type and over time, and to  
7 better understand what reviewers think about our  
8 process, such as the relative importance of the  
9 criteria and how well they work together in the  
10 process.

11           Today, I'm focused on the first two  
12 questions, but we are happy to provide more  
13 information about any of these at any time.

14           Just as a reminder, the merit review score  
15 analysis is just one information source among many  
16 including a regular survey of reviewers, focus  
17 groups of reviewers, and a number of other efforts  
18 that help inform PCORI staff and committees about  
19 how well we are doing and ways we can look for  
20 opportunities to improve.

21           The last thing I want to share before we  
22 get into the findings is that we are working on

1 sharing what we have learned from this. We have  
2 already shared our findings with PCORI staff and  
3 committees, as well as at a session at the PCORI  
4 annual meeting, and we are preparing scientific  
5 manuscripts.

6           Let's get into the findings, and we will  
7 start by giving you a preview of the important  
8 learnings. The first is that the in-person  
9 discussion has an important impact on merit review.  
10 You will see that all types of reviewers change  
11 their score through the discussion, and that leads  
12 to greater agreement after the discussion, such  
13 that PCORI brings together reviewers from a variety  
14 of perspectives that at the end of the process tend  
15 to come to agreement on which proposals best meet  
16 the PCORI criteria.

17           Secondly, we learned that all reviewers'  
18 impressions about potential to improve health care  
19 and outcomes, as well as the scientists' views on  
20 technical merit and the patient-centeredness of the  
21 research are critical to success in merit review.

22           We also learned that all reviewers' views

1 influence PCORI funding decisions and each other's  
2 final review scores, and that scientist reviewers  
3 have a strong influence on scores, and lastly,  
4 technical merit is important to all types of  
5 reviewers.

6           We're going to look first at the impact of  
7 the in-person discussion on reviewer scores and  
8 agreement between reviewers. First, I want to  
9 share that when we continued the analysis that we  
10 did in the Fleurence paper, we found that in the  
11 subsequent six cycles of merit review, in fact, we  
12 replicated the finding that reviewers have less  
13 agreement before the discussion than they do after  
14 the discussion, and agreement across reviewer types  
15 in particular improves on proposals that were  
16 originally scored in the middle of the scoring  
17 range.

18           We can drill a little deeper to try to  
19 understand a little bit more about what's happening  
20 in the discussion, so when we look across all the  
21 preliminary scores by every reviewer on every  
22 proposal, from the six recent review cycles, we see

1 those scores stayed the same 47 percent of the  
2 time. The scores are changed by one point on a  
3 nine point scale about a third of the time. They  
4 changed by fewer or more points 22 percent of the  
5 time. When there is a change of score, the  
6 majority of the time it's toward a poorer score.

7           We also compared changes in scores between  
8 scientists and patients and stakeholder reviewers.  
9 Scientists change their scores 50 percent of the  
10 time, and patients and stakeholders change their  
11 score 56 percent of the time. Patients and  
12 stakeholders were a little more likely to show  
13 larger changes in scores of two or more points, and  
14 the mean change was a little bit larger for  
15 patients and stakeholders relative to scientists.

16           We also wanted to understand at the end of  
17 the day after the discussion how much did the  
18 different types of reviewers agree on which  
19 proposals best meet the PCORI criteria.

20           We looked at those proposals that ranged  
21 among the top 20 percent among scientists, and we  
22 saw that two-thirds of those also ranked in the top

1 20 percent for both patients and stakeholders.  
2 There were a small number of proposals that ranked  
3 in the top 20 percent for only scientists and  
4 stakeholders but not patients or only scientists  
5 and patients but not stakeholders. Only 10 percent  
6 of the proposals ranked in the top 20 percent for  
7 scientists alone.

8           What we concluded here is that the  
9 scientists, patients and stakeholders tend to agree  
10 about which applications are the top applications.

11           In summary on the first part of the  
12 findings, I will remind you that we found that the  
13 in-person discussion has an important impact on  
14 application review. All reviewer types changed  
15 their scores through the discussion, such that  
16 there is a greater agreement after the discussion,  
17 and ultimately, PCORI brings together reviewers  
18 from a variety of perspectives that tend to agree  
19 at the end of the day about which projects best  
20 meet the PCORI criteria.

21           CHAIRMAN NORQUIST: Before we go on to the  
22 next, so that we don't get too much information,

1 why don't we focus on this particular issue first,  
2 if people have questions or other comments. Larry?

3 MR. BECKER: How do you know that the  
4 group discussion, people exchanging their opinions,  
5 is a good thing?

6 MS. FORSYTHE: That's an interesting  
7 thought. I think what we are looking for here is  
8 -- I think it will become more clear as well  
9 through the second part of the presentation -- we  
10 brought the people together to bring different  
11 perspectives and to focus on different elements of  
12 the proposal and the criteria, so I think it's not  
13 always appropriate for people to change their  
14 scores. Some reviewers may have an opinion that  
15 best reflect their view on the proposal that they  
16 should maintain, but what we hear from some of the  
17 additional work that we have done, like the  
18 reviewer focus groups and open-ended feedback on  
19 the surveys, is reviewers with a different  
20 perspective highlight some element that wasn't  
21 clear to a given reviewer prior to the process.

22 For example, scientists tell us about

1 patient or stakeholder reviewers really helping  
2 them get a better understanding of the real world  
3 applicability of a proposal or the feasibility to  
4 implement the study in a real world setting.

5 CHAIRMAN NORQUIST: Mike has a comment or  
6 question. He's smiling.

7 DR. LAUER: I love that question. With an  
8 observational study, it is unanswerable. One of  
9 the criticisms of peer review as it is currently  
10 done is that a group takes over and they actually  
11 lead to bad decisions. On the other hand, one of  
12 the compliments about peer review as it is  
13 currently done is if you bring smart people  
14 together, they come up with multidisciplinary  
15 dialogue and conclusions.

16 What is the right answer? Some funding  
17 agencies do not have reviewers sit down together,  
18 so I've done reviews, for example, for MRC, in  
19 which I have written my review. It goes into the  
20 hopper. There are other independent reviewers.  
21 Then the agency makes a decision about what they  
22 are going to do with it. At no time did the

1 reviewers actually talk to each other.

2           At NIH, PCORI, what happens is reviewers  
3 sit down in study sections and they talk to each  
4 other. The only way you could answer a question  
5 like that would be to do a randomized trial where  
6 you would randomize proposals to either go through  
7 like an editorial style review where you have a  
8 central agency that makes decisions about reviews  
9 that are done in an independent and blinded way,  
10 and you do not bring the reviewers together to talk  
11 to each other, that would be one arm. The other  
12 arm would be the study sections.

13           I think while that is beyond PCORI to do,  
14 I think the kind of science that is being done here  
15 and the granular nature of the data that's being  
16 collected on peer review is fabulous.

17           What it does is it enables those kinds of  
18 questions to be raised. The fact that you are  
19 seeing there are changes in opinion on peer review  
20 tells you that is a question that is worth asking  
21 which you otherwise wouldn't know.

22           CHAIRMAN NORQUIST: Joe?

1 DR. SELBY: Mike really answered this very  
2 well already. I think two things. Number one,  
3 your question suggests that it might be really good  
4 to do that same pie chart on the pre-discussion  
5 scores and see what fraction of the studies that  
6 were rated high on all three going in before the  
7 discussion, how does that fall out, how much  
8 difference there is, to get a little bit at this  
9 probably a false specter of group taking over.

10 If you were a Board member, what would you  
11 rather have, a study where scientists, patients,  
12 and other stakeholders all agreed the study was  
13 likely to change practice, or one where one or two  
14 or the subgroups didn't. I think that's the more  
15 abstract level.

16 Our model really is one that we bring the  
17 range of stakeholders together and seek the studies  
18 that all find are important and likely to change  
19 practice.

20 CHAIRMAN NORQUIST: Kerry?

21 MR. BARNETT: Just very briefly. If I  
22 read that slide correctly, I think what it said was

1 that all the participants are about equally likely  
2 to change their minds following discussion. I  
3 think we should take some solace from that. I  
4 think it would be more concerning if, for example,  
5 all the stakeholders were changing their minds  
6 after hearing from the scientists or even vice  
7 versa. Then it would feel like it was kind of an  
8 one way march.

9           If they are all kind of being informed and  
10 all learning from each other, I think that is  
11 probably a good thing.

12           MS. FORSYTHE: What you are describing is  
13 consistent with what we hear qualitatively when we  
14 interviewed the reviewers.

15           CHAIRMAN NORQUIST: Rick?

16           MR. KRONICK: Very interesting results. I  
17 think you said this shows that having kind of  
18 different sorts of people in the room leads to  
19 folks changing their opinions, if I understood it  
20 correctly. I haven't looked at similar data from  
21 AHRQ. Mike, I don't know if you have from NIH.

22           Certainly, in our study sections, there is

1 some amount of change. I don't know whether there  
2 is any more or less change. We also have diversity  
3 of folks on our study review sections, but probably  
4 not as much diversity as you have here, and it  
5 would be interesting to know whether there is any  
6 more change in this environment than there is in  
7 either NIH or AHRQ's environment.

8 DR. LAUER: I'd love to be able to answer  
9 that, but we can't. The way they collect the data  
10 here and maintain the data, individual reviewers,  
11 and the characteristics of those reviewers, here at  
12 PCORI it is done in a more robust way than what we  
13 do.

14 CHAIRMAN NORQUIST: Barbara?

15 DR. McNEIL: Thank you for those data. I  
16 guess what I would like to see, I understand there  
17 has been little change in those two columns, but it  
18 strikes me that the mean or the median between the  
19 two groups might be quite different, so that a  
20 change of minus 2 to the minus 7 might be quite  
21 different from a starting point from the  
22 stakeholders and the patients than from the

1 scientists.

2 I would find those data more interesting  
3 than that particular slide. Do you have those  
4 data?

5 MS. FORSYTHE: Yes, we can look at  
6 information in a variety of ways including what was  
7 the starting points.

8 DR. McNEIL: That would tell me whether  
9 the discussion is actually flipping somebody from a  
10 fundable to a non-fundable or a non-fundable to a  
11 fundable range. These data, for example, the  
12 patients and stakeholders could go from a 7 to an 8  
13 or 7 to a 6, and the scientists could go from a 3  
14 to a 4 or 3 to a 2. I can't tell the difference  
15 from this slide. I think that is really critical.  
16 I would really love it if you had those data.

17 MS. FORSYTHE: Yes, that's great. We can  
18 drill down some more.

19 DR. McNEIL: The second question is --  
20 maybe it's the next slide. I thought you said that  
21 80 percent of the reviewers agreed on the top 20.

22 MS. FORSYTHE: There is about two-thirds

1 of the proposals that scientists ranked in the top  
2 20 percent that were also ranked in that same 20  
3 percent --

4 DR. McNEIL: Very same proposals?

5 MS. FORSYTHE: Exactly.

6 CHAIRMAN NORQUIST: Harlan?

7 DR. WEISMAN: I had a clarifying question,  
8 whether that was pre or post.

9 MS. FORSYTHE: This is after the  
10 discussion. There is a lot more to share, too.

11 DR. WEISMAN: I think discussion and  
12 debate among equals, people perceive themselves as  
13 equals, is healthy. Rich makes it more rich  
14 outcomes. There is no way of knowing here whether  
15 there is scientist versus lay-person intimidation.  
16 Again, how willing are the non-scientists to stand  
17 their ground if there is a debate?

18 MS. FORSYTHE: I think we saw that here,  
19 that there is no change in scores 50 percent of the  
20 time among scientists and almost 45 percent of the  
21 time amongst patients and stakeholders, and I think  
22 the most robust source of information on what

1 you're asking about is what we hear through our  
2 focus groups and our open-ended comments on the  
3 surveys where we have heard resoundingly that  
4 people describe a very balanced process.

5           CHAIRMAN NORQUIST: I think the bottom  
6 line here is what you do with them, are we getting  
7 what we want out of the process is really key. We  
8 just need to be sure about that, and some more  
9 qualitative kind of analysis can help you with an  
10 understanding.

11           All right. Next?

12           MS. FORSYTHE: Part two is looking at  
13 which criteria contribute most to the prediction of  
14 funding decisions and of in-person review scores.  
15 Like the data we just went through, I think this is  
16 well supplemented with our qualitative information,  
17 although the focus today is on the quantitative.

18           To look at relationships with our funding  
19 decisions, we first conducted a logistic regression  
20 model to predict funding status, yes or no, and the  
21 predictors were the preliminary review scores for  
22 each of the criteria by each of the different types

1 of reviewers.

2           We did this to reflect their views on the  
3 proposal that they brought to the in-person  
4 discussion. What we found is the significant  
5 unique predictors of being a funded proposal were  
6 the scientist ratings of potential to improve  
7 health care and outcomes, technical merit, and  
8 patient-centeredness, the patients' ratings of  
9 potential to improve health care and outcomes, and  
10 the stakeholders' ratings of potential to improve  
11 health care and outcomes.

12           There are a few things I want to highlight  
13 here. The first is that each of the reviewers'  
14 views are represented in some way in this model.  
15 The second is each reviewer's views of potential to  
16 improve health care and outcomes were a predictor  
17 in this model, in addition to the scientists'  
18 rating of technical merit and patient-centeredness.

19           What that suggests is that there is  
20 something important about each reviewer's view on  
21 that same criteria that is playing the role here.

22           The second thing we explored was the

1 relationship between these criteria scores and the  
2 in-person overall scores for each type of reviewer  
3 at the end of the discussion. To do this, we  
4 looked at a series of multi-variable linear  
5 regression models, one for each type of reviewer.

6           Looking first at the scientists, we found  
7 that the factors uniquely related to scientists'  
8 overall scores were the preliminary scientist  
9 reviewers' views on potential to improve health  
10 care and outcomes and technical merit, as well as  
11 patient views on potential to improve health care  
12 and outcomes, and stakeholder ratings of  
13 engagement.

14           When we repeated this model for patients,  
15 we found that the significant unique factors  
16 associated with patient overall scores were the  
17 scientist ratings of potential to improve health  
18 care, technical merit, and engagement, as well as  
19 the patient ratings of potential to improve health  
20 care, patient-centeredness, and engagement, and  
21 stakeholder ratings of potential to improve health  
22 care and engagement.

1           Lastly, we did the same for stakeholders,  
2 and the significant predictors here were the  
3 scientist ratings of potential to improve health  
4 care and outcomes, as well as technical merit. The  
5 patient ratings of potential to improve health care  
6 and outcomes, and lastly, the stakeholder ratings  
7 of potential to improve health care and outcomes,  
8 patient-centeredness, and engagement.

9           I want to show you all three models  
10 overlaid on one slide, and even though it provides  
11 a lot to look at, the reason I think this is  
12 important is to highlight that there are  
13 associations between every type of reviewer's  
14 preliminary scores and every type of reviewer's  
15 final overall scores.

16           Said differently, each box on the right  
17 here has at least one blue, one green, and one  
18 purple arrow drawn to it.

19           We think that suggests that all the  
20 different types of reviewers are listening to and  
21 are influenced by each other.

22           The next thing I want to highlight is the

1 relationship between the scientists' rating of  
2 technical merit and the final overall scores for  
3 each reviewer type.

4           The strongest predictor in each model was  
5 the scientists' ratings of technical merit.  
6 Lastly, I want to highlight again the importance of  
7 each reviewer's views on potential to improve  
8 health care and outcomes in these models, that  
9 again suggest there is something unique and  
10 additive about the way each of these reviewers are  
11 considering criteria.

12           When we are looking at that series of  
13 three regression models of overall scores, the main  
14 takeaways were for each reviewer type, final  
15 overall scores were related to criteria scores from  
16 all other types of reviewers, but the strongest  
17 predictor of final overall scores for every type of  
18 reviewer were the scientists' ratings of technical  
19 merit. Also, that assessment of potential to  
20 improve health care and outcomes by all reviewer  
21 types.

22           In summary on this section, I want to

1 remind you that we learned that all reviewers'  
2 impressions of the potential to improve health care  
3 and outcomes as well as scientists' views on  
4 technical merit and patient-centeredness of the  
5 research were critical to funding in PCORI review,  
6 as well as the fact that scientists, patients, and  
7 stakeholders influence spending decisions and each  
8 other's final overall review scores, and scientist  
9 reviewers have a strong influence on scores, and  
10 lastly, that technical merit is important to all  
11 types of reviewers.

12 I want to open it up again for questions  
13 as well as to direct your attention to some  
14 questions that we have for you, which include your  
15 ideas about other questions about merit review that  
16 we could answer with work like this, as well as  
17 other means to examine the influences of patient  
18 and stakeholder reviewers.

19 CHAIRMAN NORQUIST: We have five minutes.  
20 The better way to handle the second one is by  
21 sending you those questions. Rick?

22 DR. KUNTZ: Thanks. Just a technical

1 question, just so I can understand this. In your  
2 final models, were those independent variables in  
3 the final models, so you have a model of  
4 stakeholders as an independent variable, and  
5 potential to improve health care from the  
6 stakeholders and potential to improve health care  
7 from the scientists were independent?

8 MS. FORSYTHE: That's correct; yes.

9 DR. KUNTZ: That doesn't make sense.

10 MS. FORSYTHE: What it suggests to us is  
11 that there is some thing different or unique about  
12 the way the different reviewers are looking at that  
13 criteria that make it important from all of their  
14 views.

15 DR. KUNTZ: But it would go against your  
16 thesis that they were influenced by the scientists.

17 MS. FORSYTHE: Mike, do you have something  
18 to add? I'm not sure I fully understand the  
19 question.

20 DR. LAUER: What you can tell is -- by the  
21 way, they did this both by standard regression and  
22 they also did this using a regression which takes

1 away a lot of the assumptions.

2           You can't tell directionality. You can  
3 only say the associations are there.

4           MR. BECKER: Don't you think it's a little  
5 bit curious that the final model, which would be  
6 the independent variables, employed both, whatever,  
7 the potential to improve health, the stakeholders'  
8 view and the scientists' view were independent.

9           DR. FERNANDEZ: [Off microphone.]

10           MS. FORSYTHE: That's correct. The  
11 outcome is actually the scores among each reviewer  
12 group. I just want to clarify we're showing three  
13 separate models here but in one diagram so you can  
14 understand how the findings relate.

15           DR. FERNANDEZ: I think what that is  
16 showing is or the way I'm understanding it, tell me  
17 if this is wrong, Laura, is what it is showing  
18 there is for the patients' assessment of the  
19 potential to improve health, that green arrow going  
20 to scientists states that is a contribution to then  
21 the scientists' final scoring, and there is  
22 actually an arrow from the stakeholders to the

1 scientists showing that is actually influencing the  
2 final scores.

3           What we don't see and what we could  
4 present, and I would present, is how all of these  
5 load onto the last score, whatever you have. I  
6 think that is implicit in some of the things you  
7 put out, which is the scientists' scores is  
8 weighted out more, but I don't think we can see  
9 that in here.

10           On your point, does that make sense?

11           MR. BECKER: If you put all the terms on  
12 the left in the model and then you used the  
13 scientists, patients' scores in the linear  
14 regression model, and you have an independent model  
15 at the end, the stakeholder independent model  
16 included or did not include the potential for  
17 improving health and the stakeholders' potential  
18 for improving health and the scientists, to me that  
19 is just curious they could come out as independent  
20 terms.

21           MS. FORSYTHE: It did include both, and I  
22 think that is something that is really interesting,

1 that there is some unique variants prescribed to  
2 each of those different views on that same  
3 criteria.

4 UNIDENTIFIED: I think one of the main  
5 points here is that you have done a really nice job  
6 of fostering a culture of science, of peer review.  
7 I just want to say that.

8 CHAIRMAN NORQUIST: Yes, and I think that  
9 is really critical and it is also very helpful in  
10 some ways to understand what is actually happening.

11 DR. FERNANDEZ: Can I make one more point,  
12 which is there is this other review taskforce that  
13 Barbara and Bob Kaplan and Mike Lauer sometimes and  
14 I and others are on, in which we are looking at the  
15 entire review process. We would love to get input  
16 from folks. We have been heavily influenced by  
17 looking at the scores as it should be.  
18 Congratulations to you.

19 CHAIRMAN NORQUIST: How do they give input  
20 into that? To whom?

21 DR. FERNANDEZ: They can give it to me or  
22 Barbara.

1           CHAIRMAN NORQUIST: Who is in charge of  
2 that group?

3           DR. FERNANDEZ: I am.

4           CHAIRMAN NORQUIST: Okay, then it's going  
5 to you. It would be easier. Thank you very much.  
6 Harlan, if you could be quick.

7           DR. WEISMAN: It's a question and maybe an  
8 observation. I just found it curious that patient-  
9 centeredness was dropped out. There are so many  
10 lines. That patient-centeredness was not a primary  
11 predictor here. I was wondering what your thoughts  
12 were.

13           MS. FORSYTHE: It's a really important  
14 point, and I think it relates back to the way I  
15 introduced this, which is this is one way of  
16 looking at these questions that we have, and these  
17 models explain an important proportion but not the  
18 entirety of the outcomes here that we are talking  
19 about.

20           For that reason, we combined this with  
21 what reviewers tell us about their experience as  
22 well as we are undertaking a qualitative analysis

1 of the merit review critiques themselves, so that  
2 we can really better understand the strengths and  
3 weaknesses of the proposals we choose to fund and  
4 don't fund, as well as viewpoints the reviewers of  
5 each different perspective are providing on  
6 applications.

7 I think taken as a whole, we will be able  
8 to better answer some of those questions.

9 CHAIRMAN NORQUIST: Okay. Barbara?

10 DR. McNEIL: One final question. It  
11 strikes me it would be interesting to look at these  
12 data in terms of original submissions and  
13 resubmissions. They may differ.

14 CHAIRMAN NORQUIST: The other thing that  
15 may differ is over time as the groups change, too.  
16 It may change over time. If only human behavior  
17 were so predictable, it would make my job so much  
18 easier. There is the whole aspect of human  
19 behavior and when you get into groups, what happens  
20 that you are not going to rationally make some  
21 sense out of. Okay.

22 Is that it? Okay. Thank you very much.

1           The next item is workforce training  
2 proposal that Joe and Freda are going to present.  
3 Who is first?

4           DR. SELBY: I am.

5           DR. LEWIS-HALL: I'm listening.

6           DR. SELBY: Thanks, and thanks to Rick  
7 Kronick and Harlan Weisman. Harlan from the RTC  
8 has been championing this from the Board  
9 perspective as we talked about a possible role for  
10 PCORI in workforce training, and Rick from AHRQ has  
11 represented the fact that AHRQ is actually charged  
12 in authorizing legislation as being responsible for  
13 workforce training, they have a long track record  
14 in workforce training, and as you will see, they  
15 have a lot of interest in the particular topic we  
16 are going to cover.

17           This is an initial discussion, no real  
18 decisions. I think some sense of the Board would  
19 be valuable for us and in particular for the RTC  
20 going forward.

21           Here are some questions. Is research  
22 workforce training an appropriate area of

1 investment for PCORI? If you feel that it may be,  
2 is a specific focus on patient-centered research  
3 within learning health care systems a reasonable  
4 approach.

5 We're going to propose that it would be a  
6 good potential investment, or at least it's a topic  
7 area in patient-centered research training that  
8 bears observation and thinking.

9 Third, if PCORI does go in this direction,  
10 should it channel all of its work or any resources  
11 through AHRQ, we will basically say that makes  
12 sense to us, and fourth, does the time line seem  
13 reasonable if you support the first three.

14 Dating back to the first half of 2014, we  
15 had two meetings at the IOM with systems leaders.  
16 First, we met with the Chief Medical Officers,  
17 Chief Quality Officers, Population Management  
18 Officers, and Financial Officers, and then two  
19 months later we met with CEOs of health care  
20 systems, many of the systems but not nearly all  
21 were systems that contributed data to PCORnet.

22 Essentially what these systems said was

1 yes, we're sitting on a lot of data now, and we  
2 really don't know that well how to use it  
3 effectively. You are telling us research is  
4 important. We are telling you that the research  
5 needs to focus on questions that really matter to  
6 us, our own bottom lines, our ability to perform,  
7 our ability to improve outcomes, with the efforts  
8 we have put in place to evaluate the efforts we  
9 have put in place.

10           What we really need is researchers that  
11 know how to talk to us. Researchers that  
12 understand the language and the culture and  
13 researchers who don't propose to take our funds, go  
14 away for two and a half years, and come back with  
15 the answer, but instead, propose to sit down with  
16 us periodically and iteratively look at the data  
17 and learn from it.

18           A very different model of research, but it  
19 would be good to get people who know research  
20 methods involved in that set of activities. That  
21 was a clear message.

22           Bob Kaplan from AHRQ was in the audience

1 that day, and he was particularly struck, and I  
2 think it resonated with thoughts that were  
3 prevalent in AHRQ at that time, so very quickly  
4 after that meeting AHRQ expressed interest in  
5 conversations with us about expanding its already  
6 pretty substantial PCOR training programs to  
7 include a new focus on training researchers to work  
8 with learning health systems.

9           We have had several discussions at the RTC  
10 in the last six to eight months, and at least one  
11 or two of them were graced by the appearance of  
12 representatives from AHRQ, and that has only  
13 strengthened the thinking. I think the sense is,  
14 and Harlan Weisman, you could weigh in on this, but  
15 I think the sense is there is interest on the RTC  
16 in pursuing this idea that there may be a need for  
17 workforce training in this particular area, of  
18 training people to work in delivery systems, to  
19 actually move toward the vision of learning health  
20 care systems, and maybe in the process making  
21 PCORnet look more valuable to the systems in which  
22 it resides.

1           Meanwhile, in other sectors, at Academy  
2 Health, and I'll give you a little more information  
3 on this, they are always interested in workforce  
4 training, and they are mounting a panel to discuss  
5 future needs in health services research training  
6 that starts -- actually, it starts later this week.

7           The Robert Wood Johnson Foundation, and I  
8 am sorry Harlan had to leave before we got to this,  
9 but the Robert Wood Johnson Foundation has been  
10 very active in clinician training to participate in  
11 research. They have some new initiatives that need  
12 to be watched.

13           Lastly, the point is we could bring a  
14 novel focus to workforce training by focusing on  
15 training in this area, which has not really had a  
16 lot of attention yet.

17           AHRQ is actually going to convene in the  
18 first six months of 2016 a panel of up to 15  
19 experts to advise on a roll out of the workforce  
20 training in this area. It will have panelists from  
21 learning health systems, health services research,  
22 PCOR research fields. It looks like it will take

1 six months for the planning and evidence gathering  
2 and implementation of the training program in the  
3 second six months of 2016.

4 Next, in our view, there are major  
5 advantages to collaborating with AHRQ if we go in  
6 the direction of wanting to put resources towards  
7 this kind of training.

8 Researcher training is already established  
9 at AHRQ. We would be hard-pressed and ill advised,  
10 we think, to set up a researcher training program  
11 inside PCORI, especially since the legislation  
12 assigns this responsibility to AHRQ and they do it.

13 PCORI can leverage AHRQ's expertise in  
14 this area of research training, and could after  
15 consultation with AHRQ about what resources they  
16 have to put toward it, decide in the Board's wisdom  
17 to augment those resources if they thought it was  
18 prudent.

19 Academy Health is launching its periodic,  
20 about every seven or eight year, reassessment of  
21 training needs in health services research. My  
22 understanding is that they have a strong interest

1 in this topic area, just not to fund it, but to  
2 weigh in on the need for it.

3           They will have at the table AHRQ, PCORI,  
4 the VA, and Robert Wood Johnson Foundation, so all  
5 the players are at this table that AHRQ is  
6 convening.

7           RWJ, the Robert Wood Johnson Foundation,  
8 has recently ended its funding of the traditional  
9 clinical scholars program, which trained physicians  
10 and nurses to do clinical research. Not a  
11 particular interest focus on the learning health  
12 systems or big data or electronic health record  
13 data at all. Pretty much a focus on preparing  
14 one's self to get NIH and AHRQ and RWJ grants.

15           The National Leadership Program is much  
16 more -- is a fascinating program, building a  
17 culture of health in the country to obtain the best  
18 health outcomes for society, strong focus on  
19 interdisciplinary collaboration.

20           There are four branches, each with its own  
21 site, at which the National Leadership Program  
22 initiative is being rolled out. One is called the

1 New Clinical Scholars Program. That is at the  
2 University of North Carolina at Chapel Hill. They  
3 have a much broader range of clinicians than the  
4 old Clinical Scholars Program had.

5 They train anybody within the health care  
6 delivery system, not just clinicians, but among  
7 clinicians, pharmacists and physical therapists and  
8 others, in addition to clinicians and nurses.

9 Their emphasis is not squarely and  
10 entirely on research any more. It is on using  
11 research. Some people will learn to do research  
12 but it's really on leadership. Some of the other  
13 programs are even more interdisciplinary. Some of  
14 them actually require that a team apply, not just  
15 one person.

16 These are not site-based firms. You don't  
17 go to UNC to take your training, you don't go to  
18 Minnesota or the other two sites. You stay in  
19 place and learn from a distance.

20 They expect to have 50 trainees in each of  
21 four programs, so once started, which will be by  
22 the end of 2016, they will have 200 trainees. This

1 will be in all topics, community based primary care  
2 and this new clinical research. None of it is  
3 explicitly focused on delivery system research, but  
4 any of them could be in that area.

5 We could send people, we could encourage  
6 people from PCORnet or elsewhere to apply for the  
7 funding from this program.

8 The National Clinical Scholars Program is  
9 what became of the former Clinical Scholars  
10 Program, so it is also in play here. When RWJ  
11 ended its funding of the Clinical Scholars after  
12 last year's awardees were named, the four host  
13 institutions, and let's see if I can name all four;  
14 Yale, Michigan, UCLA, and the fourth one --

15 UNIDENTIFIED: [Off microphone.]

16 DR. SELBY: Thank you. The institutions  
17 decided to carry on a version of this. This is  
18 still directed at physicians and nurses. It is  
19 funded by the institutions. I believe they are  
20 finding some other small bits of funding here and  
21 there. They will have about 20 scientists across  
22 the entire program recruited per year. Again, this

1 is not particularly based on learning health  
2 systems.

3 PCORI could contribute to this by  
4 promoting a strong emphasis on patient-  
5 centeredness, by focusing particularly on the  
6 learning health system and researchers who can work  
7 within learning health systems, and on possible  
8 synergies with PCORnet.

9 These are the three questions,  
10 introductory discussion, and I'm very glad Rick and  
11 Harlan are here to help lead the discussion, and I  
12 think our sense is really that it makes sense to go  
13 deliberately here until we get a little bit more of  
14 a shake out on what RWJ is doing and what AHRQ's  
15 six month evidence assessment leads to, as well as  
16 Academy Health's.

17 Thanks.

18 CHAIRMAN NORQUIST: Okay. We will open it  
19 up for discussion now. Sharon?

20 DR. LEVINE: One of the topics the  
21 Governance Committee has been considering in terms  
22 of Board development is an update for the Board, a

1 status update, a landscape review of the state of  
2 health services research. I think this fits very  
3 nicely into that, all of what you described.

4 I think one of the things to consider is  
5 that citizen scientists in some way includes  
6 clinicians who are not trained as scientists, so  
7 when we talk about citizen scientists or programs  
8 that look at bringing training to sites where care  
9 is being delivered and training cohorts of I would  
10 say patients, community advisory boards, and  
11 clinicians in that health system together, doing  
12 health services research in the health system is a  
13 model that might be worth exploring and certainly  
14 PCORI, I think, has a lot to add to a conversation  
15 like that. I'm not quite sure where it fits into  
16 all of these programs.

17 DR. SELBY: That actual notion of a team  
18 -- in one lengthy conversation with RWJ, I said it  
19 sounds like they are focusing many of their  
20 activities on the team, which could include a  
21 clinician and a member of the community and/or a  
22 patient.

1 I'm just not sure yet how much they are  
2 focused on the learning health system versus the  
3 learning community.

4 DR. FERNANDEZ: I'm very supportive of  
5 this. I think it would be fantastic for PCORI to  
6 contribute to increasing capacity in research. I'm  
7 quite familiar with the RWJ new call, as we thought  
8 about responding to it, and it is as you correctly  
9 point out not about creating researchers.

10 Many people were sort of worried about  
11 what will happen now that RWJ is going away for a  
12 research path, as RWJ has been a great way,  
13 particularly for non-traditional researchers, to  
14 enter research.

15 I think it has really given people a step  
16 up in the ability to carry out research. I think  
17 when I see this, I love the idea of further  
18 investigating it, love the idea of doing it through  
19 AHRQ. I am less enthused with the idea of doing  
20 the learning health system, because I think maybe I  
21 don't understand it well enough, but I'm not seeing  
22 -- it sounds a little bit too narrow to me.

1 I guess what I don't understand well  
2 enough is the other elements of the AHRQ portfolio  
3 in which people could then apply. I also don't  
4 understand and it would of course yet to be  
5 determined would this be the sort of traditional K  
6 Award model, would this be more similar to RWJ or  
7 the other attributes of this that would make it a  
8 different sort of program, other than saying the  
9 research needs to be focused in this area and so  
10 on.

11 From my perspective, this is a big green  
12 light, but I would love to know more over time as  
13 you work through some of those issues how you are  
14 going to be thinking about this.

15 CHAIRMAN NORQUIST: Steve?

16 MR. LIPSTEIN: Joe, I wanted to comment on  
17 the kind of workforce we're talking about training.  
18 What stimulates this is for those of you who have  
19 worked at Kaiser for a long time, you all have been  
20 combining electronic health record data with claims  
21 data for a long time, but the rest of the United  
22 States is just now catching up as health systems

1 are being put on this pathway to risk in their new  
2 payment models.

3           They are combining both claims data and  
4 electronic health record data into these huge  
5 datasets. What they lack in all of their health  
6 systems are the data scientists who essentially  
7 know what to do with this, so there is this new  
8 cadre of expertise that is evolving in our industry  
9 along with software to go with it, how you query  
10 those large datasets to do risk stratification, to  
11 do disease registries, the things you all have been  
12 doing for a long time.

13           None of us have really thought about how  
14 we would use those same datasets to do outcomes  
15 research. I'm not even sure we have even thought  
16 about how you standardize the data elements inside  
17 these datasets to measure outcomes, because  
18 typically, once the encounter is over or the  
19 episode of illness or injury is over, the data  
20 becomes more limited in terms of longitudinal data  
21 on outcomes, especially if you don't have a  
22 continuing care relationship with the patient.

1           The reason I went into that little  
2 description was when you think about workforce  
3 training for PCOR, it's not just physician  
4 scientists or clinician scientists, but it is also  
5 data scientists, and you put them up as non-  
6 clinicians, but this whole area of data science,  
7 and what are we going to do with these new datasets  
8 we are creating for other purposes, and how can  
9 they benefit outcomes research, it seems somehow to  
10 be part of this discussion.

11           CHAIRMAN NORQUIST: Let's go to Rick and  
12 AHRQ.

13           MR. KRONICK: Thanks. Alicia, in response  
14 to your question, we have a variety of training  
15 programs. We have institutional K-12 awards. We  
16 have individual K awards. We have had K-32 awards  
17 that are not PCOR specific but have PCOR pieces.

18           These training programs have been focused  
19 on training people to be researchers primarily in  
20 academic settings. I think what we have been  
21 talking about and what we will be awarding a  
22 contract for very soon for the six month planning

1 process is to try to figure out if what we are  
2 trying to do is to train people to work in learning  
3 health systems, as Steve was saying, the skills and  
4 knowledge needed is likely to be somewhat different  
5 from what we have been doing to train people to  
6 work in academic settings.

7           What are those skills and how should the  
8 traditional training programs be different. It is  
9 not so much training to study learning health  
10 systems but rather to work in them, which  
11 inevitably will mean, of course, trying to figure  
12 out what's going on in them, and in particular, to  
13 train folks to be able to conduct PCOR within these  
14 systems.

15           I don't know if that is helpful in  
16 response to your question. I hope so.

17           CHAIRMAN NORQUIST: Okay.

18           MR. KRONICK: We have had some very  
19 productive talks with Joe and folks at PCORI, and  
20 would be delighted to explore collaboration.

21           CHAIRMAN NORQUIST: Great. Leah?

22           MS. HOLE-MARSHALL: I also think it is

1 exciting to explore this area. I was very struck  
2 by our patient panel today and one of the concepts  
3 we didn't touch on a lot but was highly recommended  
4 was encouraging how we could empower patients and  
5 how we can support through both our systems and our  
6 trainings and even our clinical training, what I  
7 would call patient empowerment or they refer to it  
8 more as patient engagement or patient training to  
9 be engaged in their own health.

10 So one thought I have about, I don't know  
11 if it fits into workforce training but it could, is  
12 what could PCORI uniquely contribute to others who  
13 are already doing training? So it may be that we  
14 say, you know, we want to see modules on patient  
15 empowerment/patient engagement and we will help to  
16 fund your researchers or your workforce if you have  
17 these modules present, so that we are really  
18 creating that environment where patients are  
19 equipped to be a part of the solution, and it's not  
20 just the patients that need to be trained to be  
21 equipped to be a part of it. That's all of the  
22 participants.

1           So I would really love to see some  
2 additional development on that concept, which may  
3 not be it known program. Can we that it in other  
4 people's programs and, you know, help contribute or  
5 pay for it if we do.

6           CHAIRMAN NORQUIST: Bob.

7           DR. ZWOLAK: The accounts that PCORI led  
8 or PCORI influenced development of new workforce  
9 programs is very exciting to me and in our  
10 application enhancement workgroup one of the  
11 hypotheses that we tested and we thought we had  
12 evidence was and in adequate number of  
13 appropriately trained workforce researchers, but to  
14 me the question is as we sort of shift from  
15 resource unlimited to potentially resource limited,  
16 how much of an investment do we have to make in  
17 this arena to be meaningful and what are we taking  
18 away from in order to do it?

19           CHAIRMAN NORQUIST: Barbara.

20           DR. McNEIL: I have a couple of comments.  
21 I totally support work in this field. One  
22 background comment I think we have to recognize is

1 when we train people to do work in this field,  
2 there has to be money for them to do research in  
3 this field. So we have to make sure that that's  
4 there. And right now as I look at the fellows that  
5 are coming out of residency programs, 10 years ago  
6 and Rick would probably know this as well, but they  
7 would all go into health services or research for  
8 health policy or something like that. Now the vast  
9 majority of them, at least in the Northeast, are  
10 going to work in hospitals on quality and safety  
11 and because those are hard money jobs and they  
12 don't have to worry about research. So that's just  
13 a little caveat. We don't want to train people to  
14 get all revved up about doing something and then  
15 not having any research money. But, having said  
16 that [inaudible] unknown.

17           Let me make two other comments. I really  
18 like the idea of AHRQ holding this planning  
19 conference. And it strikes me that there may be  
20 two levels of training for workforce that we could  
21 consider. The first is I think the one that we've  
22 been talking about here which is training

1 academicians -- I'm going to talk about  
2 academicians for the moment, so they actually  
3 understand how to ask questions and what are the  
4 kinds of questions that are answerable within our  
5 current framework. And that's not necessarily what  
6 comes out of the typical MPH program. It might,  
7 but it might not.

8           So I'm assuming that's one of the areas  
9 that AHRQ is going to go down, but the second  
10 question is -- and by the way within that there  
11 will also be some different kind of statistical  
12 skills that will have to emerge that do not come  
13 out of your average questionnaire regression  
14 analysis that's just not there.

15           But I don't know how many of you have  
16 tried to hire recently programmers or analysts who  
17 can merge data, who know how to deal with missing  
18 data in any way even though a statistician has told  
19 them what to do, who know how to link data -- how  
20 many have tried to hire any of them recently? And  
21 have you had an easy time? They are almost  
22 impossible to find. We've had job postings for I

1 don't even know how long.

2           So I think one of the things when we think  
3 about this workforce training is we can train all  
4 of the academicians in the world with this huge  
5 cadre of funding sources, but if there are people  
6 to help them implement their work we're cooked. So  
7 I am encouraging us to think about how we plan  
8 ahead to get this next level of people who will  
9 help implement the work that I think you're talking  
10 about Joe.

11           I don't know, other people may have a  
12 different view of it.

13           CHAIRMAN NORQUIST: Yeah, you can respond.

14           DR. SELBY: Sharon, I'll be very brief.  
15 Just to bag up what Barbara said in the background  
16 materials that we obtained -- mostly I think from  
17 websites, but also in conversations with RWJ. One  
18 of the reasons that the Clinical Scholars Program  
19 ultimately got defunded is because of declining  
20 application rates. Just exactly what you said.  
21 People are saying that the funding is drying up for  
22 this traditional academic research.

1           And the second thing is, I'm 100 percent  
2 with you, if we're going to build up PCORnet and  
3 say this is really the place where research ought  
4 to be done in the future, for goodness sakes you  
5 need a cadre of people who know how to do this.  
6 And I would say one of PCORnet's challenges is that  
7 we have a very large community of investigators  
8 involved in PCORnet with only a small number really  
9 familiar with these databases, and the capacity,  
10 and the importance, and the methods for the linkage  
11 in handling missing data. A huge issue even in  
12 PCORnet, the place this is supposed to be becoming  
13 reality.

14           And the last thing is I really think that  
15 in Kaiser or in elsewhere where there are people  
16 doing things such as quality, who are underprepared  
17 from a data point of view, that some of the leading  
18 candidates for this kind of training would be  
19 people who are already within their systems are  
20 supposed to be doing performance improvement  
21 quality safety work.

22           DR. McNEIL: I wouldn't restrict this to

1 PCORnet at all Joe. I think some of these issues  
2 can apply to one single -- Dartmouth or Harvard or  
3 someplace where they're just trying to look at NIH  
4 data from Proven [phonetic], Optum, or Medicaid or  
5 Medicare or Medtronics. They don't have to have  
6 sites all over the place, it's just link a couple  
7 of things together and you get the very same  
8 problems and that's actually probably more  
9 important because there are going to be many more  
10 of these one-offs then there are going to be in the  
11 PCORnet family.

12 CHAIRMAN NORQUIST: Okay, Sharon.

13 DR. LEVINE: I was basically going to make  
14 the same point Joe made. There are a lot of people  
15 currently in roles in health systems who have these  
16 assignments who are unprepared to actually fully  
17 exploit the data that they have at their fingertips  
18 or access to. And there are clinicians, you know,  
19 who every day are begging for research support to  
20 answer the questions that are coming up in clinical  
21 practice.

22 And so, to me investing some in folks at

1 the VA or a system like Kaiser or Group Health --  
2 maybe, assuming the Group Health members like the  
3 idea, could potentially strike an oil well of  
4 interest in productivity that could be tremendously  
5 useful. There's certainly a huge receptivity to it  
6 in Joe's old division of research, physicians and  
7 clinicians are beating down the door every day  
8 demanding "Please help us answer these questions"  
9 and the folks we have in our quality and operation  
10 support function, again, just don't have the  
11 training and the skills to step up to the next  
12 level of outcomes research.

13 CHAIRMAN NORQUIST: So we're at the end of  
14 this time. Allen and Harlan I think if you want to  
15 make your points quickly then I think we have to  
16 wrap this up.

17 DR. DOUMA: Just quickly, what I'm hearing  
18 is there's a lot of demand out there from  
19 organizations out there that I presume have their  
20 overarching organization where it's even more true;  
21 hospital associations or others, and this goes back  
22 to what Leah was saying as well in patient

1 empowerment. There's a lot going on in the  
2 nontraditional, meaning non-academic setting that  
3 it seems like we ought to see if we can work with  
4 those organizations as well, because they are going  
5 to be very supportive of what we do and we can help  
6 collaborate with them and don't just think of your  
7 normal -- in the normal inside the box.

8 DR. WEISMAN: Since I'm involved with this  
9 I certainly have a lot of opinions about it, but  
10 I'm not can talk about that. I thought the  
11 comments around the table were really good and I  
12 really appreciate the board's support for the  
13 general idea and there were a lot of good comments  
14 and suggestions. But something Barbara said that  
15 struck me about the shortage of capable people  
16 trained in data analytics.

17 I'm involved with an organization that may  
18 be some of you know about it, it's called -- as an  
19 advisor, Drugs for Neglected Diseases and they do  
20 drug discovery, all kinds of things. They wanted  
21 to look at Big Data. There are people outside of  
22 the healthcare realm that really know how to do

1 this kind of programming, know how to do these  
2 things. And they are thrilled to be able to help  
3 healthcare. They don't do it for a living, they  
4 may just look at financial data on Wall Street or  
5 be involved in other types of Big Data like in the  
6 banking world, but there are legions of these  
7 people that you can so-called crowd source to help  
8 solve some of these problems. It's an off-the-wall  
9 idea, but I thought I would throw it out there  
10 because I've seen it work before and they readily  
11 come to the table and they do it after hours as  
12 volunteers.

13 CHAIRMAN NORQUIST: Thanks, so Joe, you  
14 got what you need? I mean, it sounds like to me  
15 there is a very enthusiastic interest in this, but  
16 we need to be very clear what the "it" is --

17 DR. SELBY: That's right.

18 CHAIRMAN NORQUIST: I think working with  
19 AHRQ on this would be very key.

20 DR. SELBY: Good, thanks everybody. I'm  
21 now going to ask Jason Gerson who is our associate  
22 director for CER Methods to give an update on open

1 science. Another topic the RTC has been looking at  
2 in depth and including a visit just at the last RTC  
3 meeting where we were urged to get some practice  
4 examples in place.

5 So Jason, thanks for being here and thanks  
6 for your hard work and that of your -- Jason  
7 actually has put together a team of scientists on  
8 PCORI's staff to carry this forward. Thanks to all  
9 them.

10 MR. GERSON: So, thank you Joe. I'm happy  
11 to be here with you this afternoon and talk about  
12 some of the progress the Open Science Working Group  
13 that PCORI has made over the last several months,  
14 so next slide please. Do I have control of it?

15 So this working group was convened in the  
16 summer of 2015 to basically revise the draft policy  
17 on open science that we inherited from some other  
18 folks internal PCORI and to make recommendations  
19 for how to operationalize that policy.

20 The working group is comprised of some --  
21 is this coming in and out a little bit?

22 CHAIRMAN NORQUIST: You're good.

1           MR. GERSON:  It's fine?  Okay.  Sorry.  
2  From staff members from the Science, Legal, and IT  
3  teams.  They are listed for you in parens.

4           Today my job is to update you on some of  
5  our efforts and a apprise you of some planned  
6  activities.  So, all just -- it brief road map,  
7  I'll talk about this consultation with some  
8  national experts that we've done.  I'll provide a  
9  brief recap of an annual meeting plenary session  
10 regarding open science that was done in early  
11 October.  I'll talk to you a little bit about a  
12 public release that we're planning for the draft  
13 open science policy, and then and with some future  
14 planned activities/action items and have it up for  
15 discussion.

16           So members of PCORI's Open Science Work  
17 Group have spoken with a number of leading national  
18 experts about some of the operational and technical  
19 challenges for implementing an open science policy.  
20 These conversations have been very rich and I think  
21 educational for the working group members and have  
22 focused on a number of critical considerations,

1 which include but not limited to operational  
2 challenges of building and maintaining data  
3 repositories; making key decisions about  
4 Centralized versus Federated IT models for data  
5 sharing; challenges that we are going to face  
6 regarding de-identification of data; the  
7 development and enforcement of data use agreement;  
8 issues of informed consent; as well as ascertaining  
9 participant perspectives on data sharing.

10           We held a -- many of you were attendance  
11 for this, but all just summarize. We held a very  
12 productive plenary session as part of the annual  
13 meeting. The overarching goal of this session was  
14 to discuss technical, legal, and ethical challenges  
15 to the implementation drawing on the panelists'  
16 perspectives and experience addressing those  
17 challenges. We had Dr. Francis Collins deliver a  
18 keynote to begin a session in which he spoke about  
19 the historical context of open science with a focus  
20 on some of the past and present NIH and  
21 international initiatives.

22           The session was moderated by Austin Frakt,

1 who is a health economist and has written about  
2 data sharing and transparency. Steve Goodman, who  
3 is the Vice Chair of the PCORI Methodology  
4 Committee among other roles, presented the PCORI  
5 Open Science framework and discussed some key  
6 decision points for implementation. And then the  
7 invited panelists, which included Phil Bourne, Brad  
8 Malin, and Michelle Mello spoke to a number of the  
9 substantive and technical challenges I alluded to  
10 on the previous slide.

11           So that was followed by very robust  
12 audience Q and A, which included questions about  
13 what data should be made available and who will  
14 have access to it. The need to differentiate  
15 between results of data, usable by general public  
16 and raw data sets that require expertise to  
17 evaluate, and some privacy and security concerns,  
18 as well as patient consent and control of future  
19 uses of data.

20           So some of the key takeaways from this  
21 plenary session: One is that incremental progress  
22 is worthwhile and prudent. Infrastructure which

1 includes the technology, governance, and staffing  
2 to support data sharing is nontrivial. The other  
3 thing that came through is, you know, PCORI is not  
4 -- need not go it alone in this endeavor. NIH is  
5 actively working in this area as well as other  
6 funders and we should seek collaborations with  
7 those organizations. And to state something  
8 obvious, that building and maintaining trust in  
9 PCORI once, you know, once we undertake this data  
10 sharing initiative it's going to be critical and  
11 that we need to find ways to ensure -- once we roll  
12 this out to ensure that data user compliance with  
13 our policies should be measured and evaluated.

14           So, the Open Science Working Group has  
15 drawn on the insights from our interviews as well  
16 as what some learnings from the Open Science  
17 Plenary Session and we revised the draft policy  
18 that we inherited beginning in the summer of 2015.  
19 So the key overarching goal for that policy is to  
20 articulate PCORI's commitment and vision for open  
21 science and to signal expectations for applicants,  
22 awardees, and other stakeholders. And more

1 specifically the purpose of the policy is to  
2 facilitate reproduction of the original analyses to  
3 decrease the integrity of PCORI-funded research  
4 findings and to promote data sharing to enable  
5 conduct of additional analyses using data from  
6 PCORI-funded studies, thereby augmenting the  
7 knowledge generated from the original study.

8           So just a few -- let me make a few  
9 additional points about the policy and then I'll  
10 take you through some of the key requirements for  
11 that policy. One is that in the work of the Open  
12 Science group we've tried hard to align this policy  
13 with the recommendations that emerged from the IOM  
14 report around sharing clinical trial data. So  
15 we've done that.

16           They had a subsection on recommendations  
17 for funders, which I'm happy to talk to talk  
18 through with you that we've tried to align the  
19 policy with. And then, we've also use the  
20 terminology -- some of that technical terminology  
21 in that report to make sure that the policy that we  
22 draft is in keeping with where the rest of research

1 community may be going.

2           This draft policy is also consistent with  
3 PCORI's funding contract, which includes an  
4 obligation to develop and maintain a data  
5 management and data sharing plan. And it  
6 appropriately creates an opportunity to add  
7 procedural details as we evolve and make decisions  
8 based on a plan pilot which I'll describe any  
9 moment.

10           So as you see we included the latest  
11 version of the draft policy for your review and as  
12 you've seen from that document it's organized  
13 around three sets of requirements. One is for  
14 applicants. They must demonstrate a willingness to  
15 support open science and describe planned  
16 activities that will enable data sharing in their  
17 application.

18           For awardees they must prepare for  
19 possible future request for data sharing by  
20 developing a data management and data sharing plan  
21 in a manner consistent with the applicable privacy,  
22 security, and other legal requirements. And just

1 kind of in broad strokes that data sharing requests  
2 may originate from third-party researchers and/or  
3 from PCORI program staff.

4           So as I signaled on the previous slide,  
5 the policy has been drafted in such a manner that  
6 will allow PCORI to incorporate additional  
7 operational details and procedures over time. In  
8 that the RTC reviewed and discussed this draft  
9 policy at they are September 2015 meeting. And the  
10 draft policy, we're planning on releasing it for  
11 public comment in early 2016 after a more formal  
12 presentation of the board for your consideration  
13 and approval. We're intending that for early 2016.

14           So here are some planned activities that  
15 we have in mind for the first part of 2016. So we  
16 are recognizing that these are -- kind of iterate  
17 by experience by the RTC, I believe prodded us to  
18 do so to that end we're going to work  
19 collaboratively with a handful of our awardees that  
20 are both in the general portfolio and in PCORnet,  
21 and were going to pilot some data sharing  
22 approaches. So that we begun internally to

1 identify some good candidates for that, they will  
2 include trials and observational studies and we  
3 hope to have those identified by the end of this  
4 month.

5           The Open Science Working Group is in the  
6 process of identifying a number of data  
7 repositories that already exist, these could be  
8 platforms that exist at an academic institution  
9 such as Stanford, they could be cloud-based  
10 solutions. And so, we're going to do kind of our  
11 first pass at evaluating the pros and cons of those  
12 and then kind of come up with a short list of kind  
13 of work through.

14           Nadine and I, as well as some others, will  
15 begin drafting draft governance protocol for  
16 reviewing and evaluating data access requests. And  
17 then, we'll have -- recognizing the depth of  
18 expertise among PCORI staff on these particular  
19 data sharing issues is not adequate or sufficient,  
20 we are going to engage a group of external experts  
21 from around country that will serve as an advisory  
22 group for our ongoing efforts. So we'll do an

1 initial convening of that group in mid-January and  
2 they'll help us kind of think through some of the  
3 data repository options, help us with governance,  
4 and then help us set the parameters for the pilot.  
5 And we intend to keep them engaged over the first  
6 half of 2016 to help our learning.

7           So, you'll see from the discussion  
8 questions that are kind of focused on the pilot  
9 exercise, they are in front of you now but I'm  
10 happy to take some broader questions or comments.  
11 So I can stop here.

12           CHAIRMAN NORQUIST: So let me -- I think  
13 Harlan Krumholz is on the phone now. Harlan had  
14 left. So I wanted to give Harlan since he's been  
15 very vocal about open science and opportunity to  
16 say something. Harlan are you on?

17           [No response.]

18           CHAIRMAN NORQUIST: Okay, I guess not.  
19 That's what I was told, okay. So, Rick Kuntz.

20           R: First of all I applaud you for doing  
21 this, I think this is really important project in  
22 PCORI in general and I would recommend two things.

1 One is can we make this a general model beyond  
2 PCORI? Because I think it's something that could  
3 be a real legacy for PCORI. And the two  
4 stakeholders you have to get involved is academia  
5 and industry since the vast majority of clinical  
6 trials are still industry-based. There is a lot of  
7 myths about what the problem of open science is in  
8 industry and to convene them and to walk them  
9 through the 12-step process and say it's not going  
10 to be the end of the world.

11           The other thing is there has to be a new  
12 method of tenure and promotion in academia. It  
13 dovetails with sharing data and that's something  
14 that's really holding academia back. So I don't  
15 know if that's overloading your schedule, but I  
16 think in the way that potentially can make this  
17 much more generalizable and kind of a big legacy  
18 contribution of PCORI.

19           MR. GERSON: Those are both helpful and  
20 there are things that we've been mindful of and,  
21 you know, there's obviously inherent in this work  
22 is kind of a norm changing around clinical data.

1 Some of this has already existed in more basic  
2 sciences, but for clinical data there's a lisp but  
3 I do think on the two fronts -- it's not  
4 overloading us, we're mindful of those and need to  
5 think about that.

6 CHAIRMAN NORQUIST: Bob Zwolak.

7 DR. ZWOLAK: It seems like such a no-  
8 brainer. I'm sure there are some real and other  
9 perceived downsides to this for those of us who are  
10 unaware could you identify very briefly identify  
11 maybe a couple different from what Rick just  
12 mentioned?

13 MR. GERSON: In terms of downsides, well I  
14 think part of it -- there's a couple of things.  
15 One kind of gets to what Rick was saying about the  
16 kind of incentive structure in academia so we're  
17 needing to make sure that data that's accessible  
18 and shareable still allows the initial investigator  
19 to do the work to get mileage out of it before it's  
20 shared, but that's something you hear put out there  
21 that the data is published -- people I think,  
22 historically -- traditionally, I think this is

1 changing but have relied on a single data set to  
2 mine for numerous publications that help them move  
3 through -- but that model's changed. That's kind  
4 of a -- you know, not to be too dismissive of it,  
5 it still needs to be contended with but I don't  
6 think it's a problem.

7           The other thing I think that we need to be  
8 mindful of and the people who work on privacy and  
9 worries about people hacking data, linking data.  
10 These are some of the questions around, you know,  
11 what data gets used? Is it individual level data  
12 versus kind of a more meta or aggregate level data?  
13 It's the most useful data that can be found for  
14 research purposes is the individual level data and  
15 we'll have to work hard and we're also constrained  
16 by HIPAA reality to about what, you know, what is  
17 ultimately shared and how we're going to best  
18 protect that data and we have real questions about  
19 where it will reside, kind of platform it will  
20 reside in, and for PCORI kind of thinking through  
21 the legal implications.

22           They are all addressable concerns and I

1 think my presenting to you today is a signal that  
2 we're endeavoring to meet, you know --

3 DR. SELBY: Just to add a third level --

4 MR. GERSON: Sure.

5 DR. SELBY: Just to add a third level to  
6 patients and researchers that Jason mentioned is we  
7 see a lot in PCORnet that you have multiple  
8 institutions that are contributing data and when  
9 you build a common data set for analyses even, you  
10 have to put in some kind of indicators of who was  
11 clustered in the same delivery system. Delivery  
12 systems are very concerned that if the data were  
13 available in some kinds of open arrangements others  
14 could get in and compare other things in their  
15 system to other systems in ways that would be  
16 harmful from a proprietary point of view.

17 So again, as Jason said it's not an  
18 insurmountable defect or challenge but is going to  
19 take a fair amount of thinking to surmount it  
20 before people are really ready to just sign on the  
21 dotted line to "Yes, you may have my data."

22 CHAIRMAN NORQUIST: Freda.

1 DR. LEWIS-HALL: Yeah, actually Joe I  
2 thought you were going in another direction which  
3 is there is just a flat out technical and cost  
4 barrier to this as well.

5 So, having the data set in an available  
6 form for sharing in addition to all of the other  
7 philosophical questions that need to be asked there  
8 are a number of logistics questions. And then  
9 who's going to pay, where is it going to be housed?  
10 Who will evaluate access to it? So I think there  
11 are a number of questions of how you actually get  
12 it done -- questions that will need to be answered  
13 as well. And one of the reasons that the pilot is  
14 helpful is it will start to, you know, the rubber  
15 is going to hit the road on these and your least  
16 know what the questions are to look at models for  
17 solving them.

18 CHAIRMAN NORQUIST: Harlan Weisman.

19 DR. WEISMAN: So I'm reacting Joe to your  
20 statement. They weren't consenting to it, but yes  
21 you may have my data. I mean, in my view anything  
22 PCORI funds belongs to the public. It doesn't

1 belong to the researcher. And the academic  
2 researcher -- you know, I don't think were funding  
3 things to advance people's careers. We're funding  
4 things to improve the health of the American  
5 public. I know that may be naïve, but Rick you  
6 already mentioned other fields -- physics is  
7 already open science. Many disciplines are open  
8 science. There are precedents in the medical  
9 world, The Milken Foundation are only funding  
10 researchers who are agreeing to share their data.

11           And so, I think I'm not saying that people  
12 shouldn't write papers or advance their careers,  
13 but they should do it in a way that these higher  
14 needs are met and I don't know whether we've  
15 explored what Milken has done and other  
16 organizations that demand this.

17           MR. GERSON: Yeah, I mean, that's a good  
18 point. We haven't with Milken in particular.  
19 Wellcome does something similar with they are  
20 funded work, but we'll look in Milken, too.

21           CHAIRMAN NORQUIST: I think the other  
22 issue here is to have this conversation about

1 academic enterprise so to speak, because that  
2 drives a lot -- you know, career advancement and  
3 these kinds of issues are really key. Until you  
4 change that and make a fundamental difference in  
5 how you can advance in an academic setting, it's  
6 not going to change. There is a huge issue there  
7 that --

8 DR. WEISMAN: So let's change it.

9 CHAIRMAN NORQUIST: Yes, that's easier  
10 said than done. Rick.

11 MR. KRONICK: The federal government, as I  
12 think folks know, you know has moved to require  
13 open science. Now from getting from that  
14 requirement to what that means on the ground, we're  
15 working at it at AHRQ. I imagine NIH still working  
16 on all the issues that have been raised or issues  
17 that we're facing as well. So I think in theory we  
18 are there, but in practice clearly not yet.

19 CHAIRMAN NORQUIST: I mean, as long as you  
20 get all of the parties together and agree on that  
21 and make it work, I think you can get there. I  
22 think everybody agrees that's the way to do it.

1 Any other comments?

2 [No response.]

3 CHAIRMAN NORQUIST: Thank you Jason very  
4 much for that.

5 MR. GERSON: Sure.

6 CHAIRMAN NORQUIST: We don't have anyone  
7 here present on the phone, so we will not be  
8 initiating our public comment period. As always,  
9 we welcome feedback at info@pcori.org or through  
10 our website at pcori.org.

11 Were there any final comments, questions,  
12 points? I do want to let everybody know that we  
13 had a picture tomorrow at 11 a.m. We are meeting  
14 at M Street, don't show up here tomorrow because  
15 we're not here.

16 DR. SELBY: We can go off the record.

17 CHAIRMAN NORQUIST: Okay, so I'm being  
18 told not to make any personal announcements until  
19 we get off of the record. So let me just go ahead  
20 and close by thinking those who joined us today,  
21 both in person as well as via webcast and  
22 teleconference. All materials presented today will

1 soon be available on our website and today's  
2 webinar was recorded and should be posted on the  
3 website by and of the week. We always welcome your  
4 feedback as I just said at info@pcori.org or  
5 through our website at pcori.org.

6           Thanks again for joining us and good  
7 evening.

8           [Whereupon, at 4:53 p.m., the meeting was  
9 adjourned.

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