

PATIENT-CENTERED OUTCOMES RESEARCH INSTITUTE

BOARD OF GOVERNORS MEETING

Monday,
October 31, 2016

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Washington, D.C.

[Transcribed from PCORI teleconference.]

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Francis S. Collins, MD, PhD
Allen Douma, MD [via telephone]
Alicia Fernandez, MD
Christine Goertz, DC, PhD
Leah Hole-Marshall, JD
Russell Howerton, MD
Gail Hunt
Robert Jesse, MD, PhD
Harlan M. Krumholz, MD, SM
Richard E. Kuntz, MD, MSc
Sharon Levin, MD
Freda Lewis-Hall, MD
Barbara J. McNeil, MD, PhD
Grayson Norquist, MD, MSPH [Chairperson]
Ellen Sigal, PhD
Kathleen Troeger, MPH
Robert Zwolak, MD, PhD

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P R O C E E D I N G S

[9:08 a.m.]

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2
3 DR. NORQUIST: Good morning. I'm Gray
4 Norquist, Chair of the PCORI Board of Governors, and
5 I want to welcome you to today's Board meeting,
6 which is being held in Washington, D.C., as well as
7 via teleconference and webinar.

8 For those unable to attend in person,
9 instructions for logging in or calling in are
10 available on our Web site at PCORI.org/event.

11 All Board members are present with the
12 following exceptions, Allen Douma, who I think is on
13 the phone.

14 I want to remind everyone that disclosures
15 of conflicts of interest by members of the Board are
16 publicly available on PCORI's Web site, and are
17 required to be updated annually. Members of the
18 Board are also reminded to update their conflict of
19 interest disclosures if the information has changed.
20 You can do this by contacting your staff
21 representative. If the Board were to deliberate or
22 take action on a matter that presents a conflict of

1 interest for you, please let me know so we can
2 discuss that or address the issue.

3 All materials presented to the Board for
4 consideration today will be available during the
5 webinar and then after will be posted on our Web
6 site, PCORI.org. The webinar is being recorded and
7 the archive will be posted by the end of the week.

8 We have a scheduled public comment period
9 today from 4:45 to 5:15 p.m. Eastern Daylight Time.
10 If you are interested in registering to provide
11 public comment, please visit our event page for
12 instructions, or you can always e-mail us at
13 info@PCORI.org, or provide input to the Web site.

14 Final reminder, we are live putting today's
15 activities on Twitter, and you can join the
16 conversation at PCORI.

17 At this point, I think the first item is
18 the minutes, approval of the minutes.

19 So, people should have seen the minutes,
20 and I just need to know if there are any comments,
21 corrections, edits.

22 SPEAKER: So move.

1 DR. NORQUIST: We have approval from Bob.
2 Second?

3 SPEAKER: Second.

4 DR. NORQUIST: Thanks. All those in favor?
5 [Chorus of ayes.]

6 DR. NORQUIST: Any opposed?

7 [No response.]

8 DR. NORQUIST: Any abstain?

9 [No response.]

10 DR. NORQUIST: Okay, so first up is Joe
11 Selby, who is our Executive Director, will give his
12 report and Q3 Dashboard review.

13 DR. SELBY: Thanks, Gray. Good morning,
14 everyone. Lovely to have a full turn out with Allen
15 here by phone. This is the beginning of PCORI's
16 seventh year, and six-year terms of Board members.
17 The initial set for those six-year terms have come
18 to an end, and that means we have some transitions.

19 To start with, it is a real pleasure to
20 welcome two Board members, Dr. Russ Howerton, who is
21 the Chief Medical Officer and Vice President of
22 Clinical Operations at Wake Forest Baptist Medical

1 Center. Russ takes the place of the hospitals'
2 representative on our Board.

3 Kathleen Troeger, who is Director of
4 Outcomes Research at Hologic, Inc., joined PCORI as
5 a representative from industry.

6 We have had a chance to talk by phone over
7 the last few weeks, and we had an orientation dinner
8 last night, and I think we have two outstanding
9 additions to our Board. Welcome to Russ and
10 Kathleen.

11 [Applause.]

12 DR. SELBY: Now, for the sad part. This
13 has actually already happened, and we sort of said
14 goodbye to Steve before and Harlan was not there.
15 We are going to hear, as you know, a little later
16 that Steve is coming back. We are saying goodbye to
17 Steve Lipstein and also Harlan Weisman.

18 Harlan really distinguished himself when it
19 came time for PCORI to do its first plan to set up
20 its metrics, the Dashboard is a direct product of
21 Harlan's advice among others, but Harlan really
22 stepped up and brought his years of experience doing

1 strategic planning to us just at the right time.

2 Harlan, I want to say what a pleasure it
3 has been working with you these years, and how much
4 your spirit will live on and your contributions will
5 live on as we move ahead. Thank you. We will get
6 to thank Steve when he arrives.

7 Speaking of thanks, here are five members
8 who decided to re-up. Each one of them have made
9 remarkable contributions, chairing committees.
10 Everybody here has chaired a committee during their
11 first six years, and several of them are still
12 chairing committees going into the second six years.
13 For your willingness to stick with us during this
14 next period of time, we all owe you tremendous
15 thanks.

16 Christine Goertz, Sharon Levine, Gray
17 Norquist, and Gray, I understand you have agreed to
18 stay on as the Board Chair as well, and that is
19 wonderful. Ellen Sigal, and Bob Zwolak. A hand for
20 these folks.

21 [Applause.]

22 DR. SELBY: Also, we are having a couple of

1 transitions that are noteworthy and I want you to be
2 aware of. The first is Dr. Romana Hasnain-Wynia,
3 who joined us in October of 2012, and was the first
4 program director for the Addressing Disparities
5 Program. I don't think Romana is with us. I just
6 want to say that Romana really brought an amazing
7 background, a ton of energy. She has built a
8 crackerjack team in addressing disparities, has
9 awarded over \$200 million to projects in this area.

10 I would be sadder if it wasn't for the fact
11 that Romana is going to an absolutely wonderful job.
12 She is going to be the Chief Research Officer at
13 Denver Health, the nation's leading safety net
14 hospital. She will direct a program of research
15 including disparities research.

16 Denver Health is also part of PCORnet. I
17 think we will continue to have a connection with
18 Romana through PCORnet at Denver Health. Really, a
19 wonderful next step, they are fortunate, we have
20 been very fortunate to have Romana with us for these
21 last four years.

22 Next, and this is kind of unbelievable,

1 too. Sue Sheridan, who has been the face of patient
2 engagement since extraordinarily early on in PCORI's
3 life, she joined us in February 2012, so she is
4 approaching five years, and has been the Director of
5 Patient Engagement that entire time.

6 I think it is really fair to say Sue's
7 leadership style has a unique quality to it, which
8 is very easy to embrace, it makes everyone feel
9 comfortable, and she really put her mark on this
10 organization by making sure that patients have been
11 involved in everything that we do.

12 Can't quite tell you what Sue is going to
13 do next yet, but I have a clue, can't say what it
14 is, but it is extraordinarily exciting, and it plays
15 to Sue's lifelong passion for patient safety and
16 reducing medical errors, starting with experiences
17 in her own life.

18 She really has made her mark for decades in
19 this area and will continue to do that, and I know
20 that we will continue to see much of Sue. Sue, I
21 think you are here.

22 [Applause.]

1 DR. SELBY: It's tough to say thanks to all
2 of you with the force that it deserves, but we are
3 grateful.

4 At the end of 2016, starting 2017. I said
5 at the beginning of 2016 we often like to name our
6 years, something like the year of the rabbit, but we
7 said this was going to be the year of refinement.
8 There was a sense in which 2016 was a bit of a
9 plateau. We got there. We looked around. We saw
10 that a number of things could be improved, and in
11 many areas, we spent 2016 improving these, with
12 intense help from the Board.

13 The SOC worked closely with us throughout
14 the first half of the year on enhancing the
15 application process. Those enhancements that were
16 recommended, half of them have been implemented with
17 the last funding cycle in August, and the rest will
18 be implemented in February 2017 with our next cycle,
19 but we have streamlined and harmonized applications.

20 The goal was to make it more coherent and
21 easier for applicants to use. I can say the
22 application link will decline from 25 pages to 12

1 pages in February 2017. Thank you, SOC.

2 Similarly, with merit review, a remarkable
3 effort, SOC and staff working together on merit
4 review. To our merit review panels, we have added
5 an additional scientific reviewer, working hard to
6 ensure that methods expertise is always there as
7 well as clinical content expertise.

8 We have done some aligning of PCORI
9 criteria to make them somewhat more consistent with
10 others while preserving our focus on engagement and
11 patient-centeredness, work to improve summary
12 statements and streamline the entire process.

13 The new two concepts, which one you will
14 hear about later today, the idea of sequential
15 targeted PFAs, if we have made an investment in an
16 area, we may find there is other work to do in that
17 area. Really, we owe a lot of thanks to our new
18 Chief Science Officer, Evelyn Whitlock, in these two
19 concepts, sequential targeted PFAs, and also
20 specific set-asides within the pragmatic.

21 Yes, we have a list of high priority
22 topics. With each cycle, we also emphasize areas of

1 special interests in the pragmatic trials. Those
2 are two concepts that I credit Evelyn with
3 introducing into the PCS portfolio.

4 The budget preparation for 2017, I think,
5 was a collaborative effort of staff, the FAC, and
6 all the strategy committees, the best budget
7 preparation ever to date.

8 Lastly, and you don't probably know a lot
9 about this, if you were on the FAC, you know
10 something, we developed 150 policies at PCORI during
11 the last year. It may seem excessive, but in our
12 judgment, it was necessary. It really helps to
13 upgrade the work experience, particularly helpful
14 when new people are coming on to jump into the flow
15 quickly.

16 One hundred-fifty policies, 250 standard
17 operating procedures, and 50 guidance documents. A
18 tremendous amount of work we were able to do because
19 we got to a plateau. The last things we are doing
20 in 2016 are setting the stage for 2017, which I can
21 say is going to be a year of research results and
22 dissemination. You will hear a lot about this today

1 and into 2017.

2 The peer review process has been fully
3 implemented. I want to spend a little bit of time
4 on that. Thanks to the work of a number of staff
5 and led by Hal Sox and Marina Broitman, the peer
6 review process is now in place. Just in time for
7 the results, which are starting to come in in
8 numbers, and in this next quarter, will begin to
9 come in in large numbers. Our process mandated by
10 the legislation is in place.

11 2017 will be the year in which we really
12 begin doing both evidence syntheses and research
13 dissemination. We hear a lot particularly in
14 discussions about PCORI's accomplishments and
15 whether PCORI is going to be renewed, we hear
16 conversations about products, and whether PCORI is
17 going to produce products.

18 We have research coming in now, and the
19 next task is to synthesize that evidence, to go out
20 and get other evidence that can be added to the
21 research we have funded, and to produce products
22 that are useful to patients but also clinicians and

1 payers, and you will hear a report from Evelyn on
2 aspects of this later this afternoon.

3 I want to say a word about open science,
4 open data, and transparency at PCORI. We have never
5 really talked about these three policies together at
6 the same meeting, but it is the combination of them
7 that really I would argue puts PCORI in a lead role
8 in terms of pushing the concepts behind useful
9 science and open science.

10 The first policy is the peer review policy,
11 which calls for immediate registration of any
12 project, trial, or observational study on
13 ClinicalTrials.gov. A month later, we post a
14 summary on PCORI's Web site translated for a lay
15 audience. We require submission of results
16 consistent with NIH regs and FDAAA regs.

17 We require submission of results to
18 ClinicalTrials.gov within 12 months of the primary
19 completion date. We post an abstract with the
20 results to our Web site within 90 days, a lay
21 abstract and a scientific abstract, within 90 days
22 after our peer review is completed, and the posting

1 of the full final research report. I don't think
2 anybody else in the U.S. does this at this time.

3 We require a full final research report to
4 be posted on our Web site, searchable in Medline,
5 regardless of results, regardless of whether there
6 have been publications, no later than 12 months
7 after the final report has been accepted.

8 The second is our open access/public access
9 policy. That simply says all final manuscripts must
10 be deposited in PubMed Central, the manuscripts, and
11 that PCORI will ensure that the primary publication
12 from every study is funded to be published open
13 access.

14 If the article has been submitted and
15 accepted by a journal that does not have full open
16 access, we will cover the cost of making it open
17 access or public access on day one, so there will
18 not be a delay between when it is published and when
19 the public can see the primary publication from any
20 PCORI funded study.

21 The last is the draft data sharing policy.
22 You will be hearing a little bit later today from

1 Jason Gerson about a data sharing policy that we
2 have been iterating with the RTC for the last 6 to 9
3 months. This policy is still fairly in draft in the
4 sense that we are leaving some details open for
5 public comment.

6 In it, we require the posting of initial
7 and final study protocols. We require all projects
8 funded by PCORI to prepare for data sharing and to
9 have a data-sharing plan.

10 For large studies, pragmatic clinical
11 studies, targeted studies, and for perhaps a select
12 set of the smaller studies, PCORI will require
13 deposition of the complete data package in one of
14 several PCORI suggested data repositories, and cover
15 the cost of transfer and storage.

16 We're going to ask you this afternoon to
17 approve the posting of this draft policy for public
18 comment, and we are confident that there will be a
19 lot of feedback that comes from this public comment.

20 We have already gotten some wonderful
21 feedback from the NIH, incorporated what we could,
22 and held on to the rest to be merged with the other

1 public comments. That is coming this afternoon.

2 Just a word about peer review, where we
3 are. We have now the final research report
4 instructions. They put a strong focus on engagement
5 and methodology standards, so researchers have to
6 address those two. The outline is broadly similar
7 to a journal article, meant to encourage the use of
8 the final report as a submission to a journal. It
9 includes subheadings for method sections.

10 There is another section on how patients
11 and stakeholders were engaged, and there is an
12 addendum for the authors to describe how they
13 adhered to the methodology standards.

14 We have an online system for submission,
15 and we are now accepting draft final research
16 reports. Editorial Manager is that system, and it
17 is used to manage peer review. We do this in
18 concert with OHSU, which is the winner of the
19 competition to play this role. We are also
20 integrated with the PCOR Translation Center, which
21 takes the final reports and develops the lay
22 abstract.

1 Reviewer recruitment is underway. We have
2 associate editors who have been identified by OHSU
3 and trained to work with different types of
4 reviewers because we do have patient and clinician
5 reviewers.

6 Just to show you that we expect to have 43
7 draft final research reports by the end of this
8 calendar year. We already have 12 draft final
9 research reports that are in peer review. We expect
10 to post the abstracts from these peer review reports
11 starting early 2017.

12 If you remember the pilot projects, we have
13 47 out of the original 50 that have completed
14 abstracts that will be posted before the end of the
15 year. These are lay abstracts describing the 50
16 pilot projects.

17 Speaking of evidence synthesis and
18 dissemination, Engagement and Science held a meeting
19 with all stakeholder groups, 40 plus stakeholder
20 groups, on October 14, and the aim was to discuss
21 the needs of stakeholders with respect to evidence
22 synthesis and dissemination tools.

1 The basic messages were stakeholders really
2 want clear, concise, actionable findings. They want
3 the bottom line at the top. They want a headline,
4 not to have to read through 200 to 300 pages to get
5 to the conclusion.

6 They encouraged us to work with trusted
7 intermediaries, and they named particularly the Mayo
8 Clinic web site and Consumer Reports as trusted
9 intermediaries to think about working with in our
10 dissemination activities.

11 They said please concentrate on areas where
12 there is in fact is new information and clear
13 evidence, always think about shared decision making
14 and tailor the material to the audience. Reports of
15 insufficient evidence to most stakeholders have
16 little value, so don't spend a lot of time restating
17 that there remains insufficient evidence in an area.

18 This was good guidance to get started, and
19 we will have some of our first dissemination
20 products within the next several months.

21 Last thing, just a reminder, the annual
22 meeting is just about two weeks away, just over two

1 weeks from now. It is here at National Harbor.
2 More than 1,000 members of the PCORI community have
3 registered, four keynote speakers will start with a
4 focus on patients and the patient's role in
5 research. We will then move to how patient-centered
6 research can support patient-centered care. We will
7 talk particularly about patient-centered research in
8 the area of complex and multiple chronic conditions.

9 Finally, a very interesting presentation
10 from the just stepping down president of the Robert
11 Wood Johnson Foundation on the relationship between
12 patient-centered research and the community,
13 community-based participatory research.

14 A very interesting session. I know a lot
15 of you have roles moderating the panels or
16 breakouts. We look forward to spending those three
17 days with you.

18 I'll stop. Those are just some opening
19 comments and touching a few faces that needed to be
20 touched. Let's see if there are any comments or
21 questions.

22 DR. NORQUIST: Francis, and then Barbara.

1 DR. COLLINS: Joe, thanks for that summary.
2 I'm curious to know with regard to the public access
3 policy which PCORI announced back in April,
4 requiring that publications appear without delay,
5 not just the 12 month period which is standard for
6 everything that NIH supports, but it has to be in
7 the public domain where people can access it and
8 look at it.

9 That is clearly a direction that many of us
10 think this whole effort should be going, but it's
11 not without controversy.

12 I'm curious to know to what extent you had
13 push back from publishers, and also whether you have
14 had push back from any authors who discovered that
15 the journal they really wanted to send their paper
16 to didn't actually have, even with payment, an
17 immediate access model. So, how has that been
18 going?

19 DR. SELBY: We have had discussion with
20 journal editors. I will say, Francis, I think there
21 is built in tension. There is just a natural
22 tension between wanting to get a full report out and

1 wanting to get papers published.

2 My priority is papers published, simply
3 because they are a much more effective dissemination
4 tool than a final report on our Web site will ever
5 be.

6 What we say is as soon as the final report
7 has been peer reviewed, we post a scientific and lay
8 abstract of the final report on the Web site. There
9 is then a period that can go up to 12 months. We
10 will push at all times for it to go sooner, but we
11 will do it with an eye on publications. We will
12 also build into the whole peer review process a
13 pressure to get the publication submitted at the
14 same time the final report is submitted to us.

15 DR. COLLINS: I'm actually asking a
16 different question, which is when that publication
17 is actually accepted and it is going to come out in
18 a journal, PCORI now says as of April that you want
19 that published paper to be immediately accessible to
20 everybody, without a 12 month delay, before it
21 becomes visible in PubMed Central, and you are
22 willing to pay the cost for publication in order to

1 make that public access happen immediately, as soon
2 as the paper is actually published.

3 The Gates Foundation has now announced they
4 are doing a similar thing, and it becomes effective
5 in January. Wellcome Trust is looking at this.

6 Traditionally, as you probably know, many
7 publishers, many of them actually supported by
8 scientific societies, get very anxious about this
9 because they fear this is going to erode their
10 journal subscription income, because libraries won't
11 need to pay very hefty subscription fees of the
12 journals if everybody can see all of the published
13 literature immediately online anyway.

14 I would be surprised if there were not some
15 anxious faces amongst the publishers as a result of
16 PCORI's announcement. I also wonder, as I
17 understand it, there are some journals, not to be
18 named, which will not allow immediate access even if
19 you pay \$3,500 or whatever the publication fee is
20 for immediate access to happen. They just don't
21 have that option.

22 Effectively, it seems that would screen out

1 those journals for PCORI authors to be able to
2 submit to, some of them might be journals they want
3 to. I wondered if you have been hearing any noise
4 about that.

5 DR. SELBY: I have not heard any.
6 Unfortunately, Bill Silberg is not here. Yes?

7 DR. NORQUIST: Jean.

8 DR. SELBY: Jean.

9 MS. SLUTSKY: Francis, you have a great
10 question. Bill Silberg has been negotiating with
11 the journal publishers around this. So far, we
12 haven't received any negative response from any
13 journal publisher that they won't give immediate
14 access for payment, to put it on the other side of
15 the firewall.

16 Now, we are also trying to negotiate bulk
17 rates. Our policy doesn't require any authors to go
18 to any particular journal. That is really their own
19 preference where they are going to go. We probably
20 at some point will encounter some friction, but up
21 until now, we have not.

22 I take that as a good sign, but knowing the

1 likelihood of us coming up with the hard walls will
2 likely happen, but as you point out, there is a lot
3 of movement towards this, and given the language in
4 our authorizing legislation, we just felt it was the
5 right thing to do.

6 DR. McNEIL: That was a great report, Joe.
7 I have a couple of questions. The first one is --

8 DR. NORQUIST: Barbara, is it on this issue
9 or are you on a particular issue?

10 DR. McNEIL: No.

11 DR. NORQUIST: Let's let Harlan speak.

12 DR. KROMHOLZ: I just want to respond
13 because I have heard from some of the prominent
14 influential journals. I think there is a concern on
15 twofold. One is the mandate around the public
16 access, but the other is the one-month disclosure of
17 the abstract with the results, which I think is an
18 interesting thing.

19 I just wanted to enforce what you said. I
20 think there will be. I think it is a good
21 opportunity for us really to surface this policy in
22 a very visible way, to engender a fair amount of

1 discussion, get people out there talking about it.

2 It could be that PCORI will see change in
3 the way people think about this. It is going to be
4 a question, I think, for the grantees who when they
5 applied didn't necessarily understand all of the
6 constraints, even though the legislation is there,
7 but there was some interpretation.

8 To me, this is a thing worthy of Board
9 deliberation because it is going to be a big policy
10 issue. I would just say at least in my hearing on
11 the ground, there are some major rumblings about
12 what this entails.

13 DR. SIGAL: I say tough to those journals,
14 this is the right thing for patients and the public.

15 DR. SELBY: All of our comments are based
16 on --

17 MS. SLUTSKY: The other thing I wanted to
18 say to Francis' comment to what about the journals
19 that don't have a mechanism for that, we do have a
20 mechanism whereby the draft final research report or
21 the final research report can be posted at exactly
22 the same time.

1 Even if we had a situation like that, we
2 will have a way to get the result into the public
3 domain at the same time.

4 DR. SELBY: Good point. That's a great
5 point. Even if there should be a journal that
6 doesn't give open access, our final report will be
7 there.

8 DR. McNEIL: I have a question, this
9 follows on Harlan. Does this mean that a written
10 abstract that is published online would likely
11 present publication in the New England Journal?

12 DR. SELBY: No. We are told no.

13 DR. McNEIL: I think it will. It
14 definitely will, it's a historical basis to show
15 that. There are miles and miles of data to show if
16 you publish an abstract some place that is public,
17 it precludes --

18 DR. SELBY: I was just told last week by
19 one of the leading journals that the abstract is
20 not --

21 DR. McNEIL: It is probably worth checking
22 with Jeff Drazen in particular, because that is the

1 one that is the prickliest.

2 SPEAKER: Two years ago, Bill Orlando and I
3 talked with the major journals, including the New
4 England Journal, about our policy of abstract and
5 publishing on ClinialTrials.gov, essentially
6 immediately. They said fine, they didn't bother us.

7 They were bothered by the idea about
8 publishing the whole article online, but the
9 abstract, 500 words, they didn't have a problem with
10 it.

11 DR. McNEIL: Would it be worth -- not to be
12 too Type A here, I do have another question, but
13 would it be worth confirming that for 2017?

14 DR. SELBY: Hopefully, we will get some
15 chances.

16 DR. McNEIL: Here's the question I have,
17 Joe. I actually have a couple of questions. The
18 first one is I love the idea of evidence synthesis,
19 but it strikes me that PCORI is doing it, AHRQ is
20 doing it, and Blue Cross now has a very robust
21 evidence streak approach.

22 DR. SELBY: Evelyn is going to talk in-

1 depth. I think first of all we are coordinating
2 closely with AHRQ on this. Some evidence synthesis
3 will actually be done through AHRQ, and Evelyn is
4 going to have a whole discussion of this this
5 afternoon.

6 DR. McNEIL: She will talk about evidence
7 streaks?

8 My other question is the following. When
9 you say "data sharing," do you mean patient level
10 data on an item by item basis? Is that what you
11 mean by "data sharing," or do you mean table one,
12 table two, table three?

13 DR. SELBY: No, no. We mean sharing of the
14 analytical datasets.

15 DR. McNEIL: The raw data or the aggregated
16 data?

17 DR. SELBY: Raw data, not aggregated.

18 DR. McNEIL: Okay, that would be great.

19 DR. SELBY: Bob?

20 DR. ZWOLAK: Bob Zwolak, Board. I just
21 want to congratulate everybody who was involved in
22 the creation of this peer review process. It is

1 mandated by the law, but many of us thought it was a
2 huge barrier, now we are looking straight at
3 hundreds of manuscripts coming straight at us. I
4 think based on the discussion we just heard, the
5 entire Board will be anxious for regular updates.

6 DR. SELBY: Maybe even a Dashboard item or
7 two. Okay, the Chair says to move on. Here is your
8 third quarter. We are already past the fourth
9 quarter of 2016. This is the third quarter report.
10 Except for our new members, you know to sort of
11 first look toward the yellow. Those are familiarly
12 yellow. We are still a bit underspent in terms of
13 the funds we have committed to research in 2016.

14 The top line, you will recall, is the
15 maximum that we possibly could have committed if we
16 had funded up to the maximum in every one of our
17 announcements this year. The estimated is based on
18 past experience that we get, usually fund about 75
19 percent of the maximum funds available. The middle
20 bar is the estimated.

21 You will see that through the first three
22 quarters, the first quarter is almost invisible, we

1 are on target. We are on target for what is
2 expected, we are not on target for the maximum.

3 Over on the right, the expenditures. As in
4 previous years, we are spending somewhat less on
5 research awards, and my understanding is it is not
6 more than 15 percent less, which is kind of a
7 threshold for turning this yellow, but in terms of
8 the non-research budget, these are budget
9 expenditures, the left was committed, remember we
10 have the old committed expended dichotomy, so under
11 expenditures, internally, we are in fact
12 significantly underspent, more than 15 percent,
13 against the 2016 budget through three-quarters.

14 This is primarily due to having less staff
15 on board at any point in time than we expected.
16 That is due to mostly delays in hiring. We still
17 had a number of people budgeted that had not been
18 hired or were hired later than anticipated, as well
19 as some turnover.

20 That is the main driver, in my
21 understanding. Some savings figure in there, too.
22 That is the main. We worked hard on the 2017 budget

1 to try to eliminate this chronic overestimation of
2 expenditures.

3 We are not so worried about the research
4 expenditures. We know they will catch up
5 eventually. We are still a little bit surprised at
6 how we tend to over budget in the other expenses.

7 Other things on here, you can see in the
8 middle row, the left most box, we see the beginning
9 of an uptick in the number of projects whose final
10 progress reports have been submitted. That will
11 really jump up in the fourth quarter.

12 I won't say anything more about these
13 because they are green. I'm just going to go on to
14 three stories. We always give you a couple of
15 stories along with the quantitative, and I'm going
16 to dive in this time as well to a particular issue
17 on recruitment.

18 This is just a very nice publication of a
19 network meta-analysis. You will hear more about
20 network meta-analysis this afternoon from Evelyn.
21 This is a study that proposed to do that work in
22 meta-analysis and then build the results into a

1 decision tool and do a trial. This is the
2 publication of the network meta-analysis in the area
3 of treatment for Lupus Nephritis.

4 I am actually looking forward and
5 anticipate that in the next year, we will see a
6 publication of a number of systematic reviews in
7 meta-analysis that were part of projects funded by
8 PCORI.

9 This is as far as we can tell a spontaneous
10 coming together of seven PIs, seven PCORI funded
11 studies, all in kidney diseases, and they actually
12 got together, began communicating, and wrote a paper
13 together on the results of engagement, on the
14 beneficial effects of engagement in research.

15 As far as we can tell, nobody from PCORI
16 put these folks up to this, but three examples were
17 written up. One was on how stakeholder advocacy led
18 a major dialysis provider organization to find a new
19 solution to accommodating novel treatment delivery
20 options in order to participate in the study. Good
21 news is the major dialysis provider organization
22 flexed so they could participate in a study. That's

1 fabulous.

2 The second is a patient advisory panel, and
3 another study provided feedback on the development
4 of a decision aide, to help ensure it was
5 appropriate for the target audience of pre-dialysis
6 CKD patients and their caregivers, and the aim of
7 this project ultimately is do a randomized trial of
8 a decision aide, and the third is community
9 engagement with the Zuni Pueblo in New Mexico, the
10 process identified psychological and structural
11 barriers that could be a challenge in a population
12 with the world's highest prevalence of dialysis
13 requiring kidney disease.

14 We are very excited that in the nephrology
15 community and the kidney disease research community,
16 there seems to be a network of patient-centered
17 researchers that has gotten underway.

18 This was an issue on health affairs that
19 PCORI helped to support that came out in April with
20 a press conference that was third quarter. Six of
21 the papers in this either had PCORI staffers and/or
22 awardees, mostly awardees, it looks like, as lead

1 authors.

2 We had a press conference, and these
3 speakers presented. It was a really remarkable and
4 jam packed press conference. Those altimetric
5 scores are all good, all reflecting that they are in
6 the top five percent of research scored in terms of
7 being accessed.

8 You have seen this before. I will just say
9 this is the way in our post-interim progress reports
10 that our program officers, engagement officers,
11 evaluate projects ongoing. We have a lot of
12 projects now that are ongoing. I won't go into the
13 details. Green is good and red is really bad.

14 I want to say, too, that this is very hard
15 work on the part of our project officers. I think
16 in the beginning, there were a lot of doubts about
17 whether it really meant something, but as we have
18 continued to work, our evaluation people work with
19 our science and engagement people. I think the
20 confidence that this is meaningful has increased.

21 You will see starting from the bottom,
22 which was a year ago, moving on up to the most

1 recent order, there is an increase, first of all, in
2 the number of projects under review, not surprising.
3 There is also a real absolute increase in the number
4 and proportion that are in the green zone, it is
5 modest, but it is definitely going in the right
6 direction. More of the projects look to be on
7 target in every way, including recruitment. There
8 is always that small set of projects in the red.

9 The next slide here gives you a view of
10 what happens to these projects over time. I like
11 the news. If you take a look at those projects that
12 were in the red or orange and follow them forward
13 over time, you will see many of them come back to
14 being -- in fact, two-thirds of them are either
15 green or yellow. They have gotten out of the red
16 and orange zone, a few stay in. Seven percent of
17 the projects were terminated.

18 I want to say something about recruitment
19 now. These are based on 211 studies that involve
20 recruitment, so 211 randomized trials or other
21 cohort studies, not surveys, and certainly not
22 methods projects.

1 So, recruitment is on target or early in
2 just over half, in 52 percent of these projects, as
3 of their most recent interval progress report, and
4 then 48 percent are either late or some of them have
5 not launched recruitment yet. You will see that
6 here in the dark blue.

7 The median is right on time, 59, but in the
8 dark blue, that is late. You will see that most of
9 the lateness is relatively short, three to four
10 months or less. Then you see the distribution of
11 the early ones as well. Just a few stragglers.

12 This just shows that if you were early or
13 on time, you tend to stay in the same timeliness
14 category, 63 percent, if they were early to start,
15 they were early to finish. If they were late to
16 start, they were late to finish. Of those that
17 started late, actually 44 percent wound up ending on
18 time. Of those that started early, 31 percent.
19 There is some changing.

20 I think the good news is that overall, well
21 over half of the projects that have been completed,
22 62 projects, have finished on time.

1 This is a report from Baylor that did the
2 CME on our methodology standards, just with some
3 very good 12-month data on responses from those who
4 have taken the CME indicating that they intend to
5 implement the methodology practice changes and
6 engage patients throughout the research process in
7 the coming years.

8 The knowledge also was believed to have
9 been increased substantially, there at the bottom,
10 of how CER contributes to advancements in patient
11 care.

12 This is from PCORnet. This is really
13 extraordinary news. Six months ago, on the left,
14 you will see that there were almost no -- really a
15 total of between 80 and 90 data marks, I think, now,
16 and back in March, almost none of them were research
17 ready.

18 They didn't have their data in a common
19 data model, it hadn't been vetted by the
20 coordinating center, and we have now gotten up to
21 the point where well over half of our data marks are
22 research ready, and in fact, have had queries run.

1 You will hear more about that in a little
2 bit. Rachael Fleurence and Adrian Hernandez, the PI
3 of the Coordinating Center, will be here to talk
4 about PCORnet governance.

5 This is another piece of very interesting
6 news from PCORnet. We just reviewed the letters of
7 intent from Cycle 3 in 2016 that went out in August.
8 Only a fifth of the about 400 LOIs that we received
9 have mention or involvement of PCORnet.

10 It's a sign that PCORnet researchers
11 themselves and others are beginning to think of and
12 use PCORnet. Twenty-one percent of the broad's and
13 22 percent of the targeted pragmatic's and
14 dissemination and implementation proposals involve
15 PCORnet sites in one way or another. I think that
16 bodes well for the future, for the sustainability of
17 PCORnet, and for its use by the PCOR community.

18 That is the Dashboard, and open for
19 questions.

20 DR. NORQUIST: Sharon? Then Ellen.

21 DR. LEVINE: Joe, just checking, the
22 arrangement around free access to the articles, that

1 applies to [inaudible.].

2 DR. SELBY: No.

3 DR. LEVINE: [Inaudible.] The questions
4 that are being asked are not good or people are not
5 interested for all sorts of different reasons. What
6 are we doing to make sure we have these controls in
7 place to see early on what a problem is?

8 DR. SELBY: Well, I mean the first thing is
9 we are monitoring very closely, so just to have this
10 data is a good point. Our chief science officer.

11 DR. WHITLOCK: So, there are a couple
12 things we are doing, Ellen. Because of knowing that
13 this was one area where we were having challenges
14 and it's always challenging for clinical trials, we
15 are much more robust in asking about the feasibility
16 of the recruitment plan in the applications.

17 We have beefed that up. We are focusing on
18 that more during the merit review because we need to
19 see that the plan is feasible in the first place.

20 The second thing we are doing is we are
21 closely monitoring, and when things go off, we step
22 up the monitoring. The third thing is we are

1 looking at the reasons. In some of these cases, the
2 reasons are multi-site trials where something
3 happens, they merge, there is a change in
4 administration. It's the downside of pragmatic
5 research, that you are out there in the real world
6 where you don't have a lot of control.

7 We are trying to learn from those
8 situations. We bring those to a troubled projects
9 meeting and try to enhance the understanding across
10 project officers and programs so that we can
11 recognize those and support the researchers to get
12 back on track.

13 I think the good news is many of them if
14 not most of them are getting back on track. We are
15 trying to work upstream to make sure we don't get
16 into a problem in the first place.

17 DR. LEVINE: [Inaudible.]

18 DR. WHITLOCK: We do, and we are often
19 having almost -- especially for things we think
20 might be risky of people making their goals, we can
21 have a stop point at one year if they really can't
22 demonstrate, and we are doing that more.

1 Of course, once we have put the money in
2 and it's a meritorious project, we're going to try
3 to work with them, particularly when they have had
4 structural reasons that are really not their fault.

5 Another reason is often IRBs. IRBs can
6 take a year, and people try to get ahead of that,
7 but it is a problem.

8 Those are all the things, and we try to not
9 penalize people for things that are beyond their
10 control, but also hold them accountable.

11 SPEAKER: Given this conversation, the data
12 presented, I'll just raise an issue that I think I
13 raised before, whether it is appropriate to put a
14 green label on tracking research projects when we
15 all agreed around this table this is an area that
16 needs intense attention, and yet on the Dashboard,
17 it still keeps the green label for research projects
18 on track.

19 I think it is appropriate for us to be
20 disclosing that this is an area that we watch very
21 closely, and frankly, we are not entirely happy with
22 the current situation, but we are working hard to

1 make it better.

2 DR. NORQUIST: That's a good point.

3 DR. SELBY: This is discussed a lot in the
4 materials, too. Finding a benchmark is tough. I
5 think even our conversations with NIH led us a bit
6 away from making it yellow, just because they said
7 this compares well with their experience.

8 I take your point, and I think with the
9 Board's direction, would be happy to make this
10 yellow and really continue to address it.

11 SPEAKER: I think that serves us well to
12 set a very high bar for what we expect.

13 DR. NORQUIST: Leah?

14 MS. HOLE-MARSHALL: Thank you very much and
15 for the additional materials that were in our
16 packet, especially on this topic, I really
17 appreciate it. I really appreciated -- I had
18 started to do some math, and then I got to two more
19 PowerPoints and was oh, there it is.

20 My question really is around the orange and
21 red, because that is the reason to call attention to
22 it, as opportunities to improve. I appreciated

1 Evelyn's comments. We still have 25 percent of
2 projects that have been in red over a year. Is
3 there a way where we can start to mature that
4 criteria where maybe we have some criteria around --
5 it might be reasons.

6 I heard Evelyn mention there are some
7 reasons that we still feel comfortable even though
8 it has been more than 12 months in red and remaining
9 in red, that we are willing to continue the
10 progress, or maybe there really are some stop lines
11 and criteria to consider. I think we need to
12 continue to be thinking about that.

13 Overall, three of the projects were
14 terminated in terms of total numbers, even though
15 over 30 have been in red or orange for over a year.

16 DR. SELBY: Excellent point, and a nice job
17 of pulling facts out of data. I will say we
18 continue working very hard on these. It is a
19 lengthy process to terminate a study and we don't
20 put it up here unless it really is terminated. I
21 think you will continue to see an increase in those
22 numbers.

1 MS. HOLE-MARSHALL: Again, I'm not
2 advocating for premature, it takes a lot to get
3 there, but sometimes I feel like the hardest thing
4 is knowing when to stop something. If we had some
5 continuing either focus or criteria that we start to
6 develop and that we can let our awardees know, here
7 are some things that really for us mean no go.

8 DR. WHITLOCK: I can report back on that.
9 I can report back on a qualitative assessment. I
10 will reassure you that the troubled projects
11 consortium contains legal input and contains all of
12 the program directors, so we are looking at this
13 carefully. I think we can report back so you have a
14 sense of that.

15 I also want to reassure you that there is a
16 time between decision making and contract award, and
17 if things go awry at that point, we are working with
18 Legal to make sure we don't award things that we
19 already know are not going to be able to be
20 feasible. We're trying to be diligent throughout
21 the process.

22 DR. NORQUIST: Great.

1 SPEAKER: [Inaudible.]

2 DR. WHITLOCK: To the first question, one
3 example of that, and as you saw from Joe's
4 presentation, many people are coming in now citing
5 PCORnet. One place we went awry was there was a
6 citation of PCORnet without actually getting the
7 agreement that all the sites could work and
8 therefore, the feasibility was not there.

9 One of the things that we are building in
10 is some understanding of how PCORnet is being cited
11 and is there evidence that the coordinating center
12 and/or the clinical sites themselves or the PPRNs
13 have agreed, so letters of support, I think, is a
14 really important area for feasibility.

15 In terms of the modification, on the
16 Selection Committee yesterday, they just made a
17 series of decisions about what can be modified
18 between merit review and award, and bringing it to
19 the Board, I should say, post-award. We might be
20 able to come back through our contract data. I'd be
21 happy to report that out.

22 DR. NORQUIST: Okay. Francis?

1 DR. COLLINS: I think the publications are
2 gratifying coming out of PCORI funding, but I think
3 the critics and the stakeholders are going to be
4 particularly interested in publications that involve
5 primary data, A versus B, which obviously have a
6 longer lead time.

7 The examples you showed were interesting
8 but they were not of that sort. I would be
9 interested at least as one Board member in having
10 some separate accounting of how are the publications
11 looking at far as those CER primary studies, because
12 I do think that is what a lot of people are waiting
13 for and watching, and we ought to be able to quickly
14 track that and not have them buried beneath a whole
15 pile of other kinds of articles.

16 DR. SELBY: That is an excellent suggestion
17 for an improvement to the Dashboard, and we can
18 incorporate it for the fourth quarter.

19 We just got a note to remind everybody to
20 please speak directly into your microphone. There
21 is something about these mikes that is not picking
22 up well. Even though it sounds like they are

1 amplifying, people on the phone are not hearing.

2 DR. NORQUIST: That is what we are hearing.

3 DR. SELBY: I am really pleased to
4 introduce a person you know well, Rachael Fleurence,
5 and Dr. Adrian Hernandez from Duke University and
6 Duke Clinical Research Institute, who is the
7 principal investigator of the Coordinating Center
8 for PCORnet.

9 This presentation is entitled "PCORnet
10 Governance." It arose out of a question that a
11 couple of Board members asked about where is PCORnet
12 really going. We told them a little over a year ago
13 now that they need to start planning for their own
14 future for sustainability.

15 One thing that could happen is PCORnet
16 could cease to have funds after September 30, 2019.
17 The Executive Committee launched a really robust
18 sustainability planning process, but this raised
19 questions about the patient-centered perspective,
20 and are a broad set of funders going to remain part
21 of PCORnet's vision.

22 Rachael and Adrian are going to address

1 that. Thanks very much for being here.

2 DR. NORQUIST: Let me just ask a question,
3 Rachael, I know it is like three different sections.
4 Do you want to hold discussion until the end of all
5 three or do you want to interrupt and have
6 discussion as you go?

7 DR. FLEURENCE: We should probably wait
8 until the end of the formal presentation.

9 DR. NORQUIST: I would ask that the Board
10 members, if you have questions, just write them
11 down. Let's let them get through their
12 presentation. Thanks.

13 DR. FLEURENCE: Thank you and good morning,
14 everyone. I am pleased to come here this morning,
15 as Joe said, to talk about the current and future
16 planning around PCORnet.

17 My part of the presentation is talking
18 about how we are keeping PCORnet's mission aligned
19 with that of PCORI, so you are going to hear what we
20 are currently doing to put these safeguards in
21 place. Adrian is going to talk about the actual
22 plans for moving PCORnet into its own independent

1 entity.

2 I'll talk a little bit with a very brief
3 reminder of the achievements to date, and then we
4 will go into the planning. I'll talk about
5 governance and Adrian will talk about
6 sustainability.

7 This is a very quick reminder on this slide
8 of where we have been and where we are today.
9 PCORnet launched in 2014, January 2014, with 11
10 clinical data research networks and 18 PPRNs, and a
11 coordinating center. In October 2015, phase two of
12 PCORnet began with 13 CDRNs and 20 PPRNs, and a
13 Coordinating Center.

14 Just as a reminder, many of you will
15 remember that PCORnet was born out of a vision of
16 the Board in 2012 after a large multi-stakeholder
17 meeting, and was really created to address gaps in
18 the U.S. national research infrastructure.

19 A very brief summary of achievements to
20 date. PCORnet has been up and running, coming up to
21 the end of its third full year. Just a reminder
22 that it really went from a blank page and a vision

1 of people in this room to involve participants in
2 all phases of research and to use electronic health
3 data to conduct rapid comparative effectiveness
4 research.

5 Phase one of PCORnet was focused on really
6 building the network with a focus on governance, on
7 developing the individual PPRNs and CDRNs, and
8 laying out the vision and plans for a common data
9 infrastructure for distributed research.

10 In phase two, we continue to build these
11 building blocks, developing individual and PCORnet-
12 wide sustainability plans, continuing to focus on
13 administrative simplicity, that is streamlining
14 contracting and IRBs, which really do continue to
15 slow down research being conducted.

16 We continue to implement the distributed
17 research network for both observational studies and
18 pragmatic randomized trials. We have a number of
19 demonstration projects that have launched this year
20 and they are currently underway.

21 Planning for PCORnet's future has been at
22 the forefront since the beginning of this

1 initiative, and it was actually the Board's
2 intention back in 2013 for PCORnet to become a
3 sustainable network after PCORI's initial
4 investment. This has always been part of our work
5 and our planning. This little abstract here is
6 simply what was in our phase two funding
7 announcements. The requirement that each individual
8 network be planning for their own sustainability as
9 well as sustainability of PCORnet as a whole.

10 Current planning for the future is well
11 underway on two fronts. First, the governance model
12 that ensures that PCORnet stays mission aligned, and
13 second, a sustainability model that supports
14 PCORnet's continuation after PCORI's initial
15 investment into PCORnet.

16 I'm going to talk a little bit more about
17 today's governance and how we are maintaining and
18 putting in place safeguards to ensure PCORnet's
19 mission is aligned with that of PCORI.

20 PCORnet's mission is to enable people to
21 make informed health care decisions by efficiently
22 conducting clinical research relevant to their

1 needs. This mission statement has been developed
2 over the months with input from hundreds of folks
3 within the PCORnet community, clinicians,
4 investigators, as well as PCORI staff.

5 This is PCORnet's current governance
6 structure, and it really reflects that PCORnet is
7 still very much a funded entity, an entity funded by
8 PCORI with 33 contracts that belong to PCORI and
9 that are monitored in the way PCORI monitors
10 contracts.

11 You will recognize here sort of a fairly
12 traditional governance structure with 33
13 investigators or patients sitting on the PCORnet
14 Council, formerly a steering committee. There is an
15 executive committee that has representation from
16 CDRNs and PPRNs.

17 We have three critical committees that
18 really are taking care of data engagement and
19 research strategies within PCORnet, and we have a
20 coordinating center. All of the committees include
21 patient representation and keep the mission of
22 PCORnet at the forefront of their minds as they

1 execute the strategy.

2 A few points about how the governance
3 supports and protects PCORnet's mission. Here are
4 some safeguards that are in place in the policies to
5 preserve PCORI values and ensure mission alignments.

6 First, the governance policies that are
7 adopted by vote by the PCORnet Council. They
8 require that patients be on each of the committees
9 that run PCORnet. The governance policies require
10 that any PCORnet designated study be patient-
11 centered and include patient engagement, and these
12 requirements are reviewed by the PCORnet committee
13 members which also includes patients.

14 The networks themselves within PCORnet are
15 required to have engagement policies and procedures
16 as well as patient leadership on their own
17 individual governance structures.

18 Any policy amendment within PCORnet has to
19 be approved by a simple majority of both PPRNs and
20 CDRNs, and all policies are currently subject to
21 final PCORI approval, PCORI staff does have sort of
22 a veto right on any PCORnet policy which we have not

1 had to exercise to date. As we plan for the future
2 and we look into PCORnet future governance models,
3 several safeguards are being discussed currently to
4 ensure there is continued mission alignment after
5 PCORI's initial investment ends.

6 It is likely there will be a governing
7 board for PCORnet. Its role will be to ensure that
8 there is mission alignment. PCORnet sort of in
9 blunt words will not become a CRO, it will really
10 ensure any project conducted within it is aligned
11 with its mission.

12 There have also been discussions of hiring
13 an ombudsperson that would be dedicated to providing
14 objective oversight on the policies and activities
15 of PCORnet. The role of future funders of PCORnet
16 research is currently being discussed and
17 determining the optimal breakdown between the
18 sources of funding, and it also is a matter of
19 discussion currently.

20 I just have two more slides to talk about
21 how we see PCORnet evolving in the future. One is
22 the intent right now is to have a mix of both

1 industry or private funding as well as public
2 funding from a number of non-governmental agencies.
3 One key development in PCORnet is what we are
4 calling "collaborative research groups."

5 These are opportunities for researchers and
6 stakeholders to engage in specific areas, generally
7 these areas, but not always, that align with Federal
8 research priorities. You can think of CRGs as sort
9 of clusters of investigators, patients, clinicians,
10 advancing research in these particular areas. There
11 are some examples there on the slide where we are
12 going to be considering CRGs in cancer and
13 pediatrics, cardiovascular health, health
14 disparities, et cetera, and a few more.

15 You can think of these as sort of small
16 almost business development units that will be
17 working with NIH and industry to increase the volume
18 of research within PCORnet.

19 My final slide is a slide that was actually
20 developed by our colleagues at the FDA, and it looks
21 at PCORnet in a bigger picture at the national
22 evidence generation infrastructure.

1 You will see PCORnet is right there in the
2 middle of this so-called nexus, but the PCORnet GHR
3 data linked with claims data is part and parcel of
4 this national evidence generation infrastructure
5 that will support more rapid evidence generation for
6 many stakeholders within the country.

7 With that, I'm going to hand it over to
8 Adrian who is going to talk to you more about
9 PCORnet and sustainability.

10 DR. HERNANDEZ: Thanks, Rachael, and thanks
11 for having me join the meeting here. As Rachael
12 noted, there has been a lot of work done for
13 PCORnet, and also thinking about how PCORnet can be
14 sustainable, and ensuring it is also maintaining its
15 mission as it develops in the vision of 2012.

16 Currently, the sustainability approach is
17 actually multi-fold. One is we want to continue to
18 build on infrastructure and assets that have already
19 been developed for PCORnet, so that investments that
20 PCORI has made into PCORnet for developing the
21 common data model, linking electronic health records
22 across 100 or more health systems across the U.S.

1 into a common platform.

2 Further and continuing the infrastructure
3 development that has already taken place, using that
4 with other data sources, including insurance claims
5 and patient reported data as well.

6 As part of building blocks, PCORnet has
7 built on research partnerships that have developed
8 across CDRN and PTRN partners, and also really using
9 novel and pragmatic approaches for doing a study.
10 This includes engagement at the beginning and
11 throughout the conduct of studies, empowering people
12 in communities for developing the questions, ideas,
13 and approaches to answering questions, using novel
14 methods for doing clinical trials that have not yet
15 been done at scale, such as e-identification, e-
16 randomization, electronic consent, using a single
17 IRB to facilitate the conduct of research.

18 We have already begun proof of concept
19 across PCORnet in observational studies, as well as
20 pragmatic trials have developed proof of concept
21 that yes, this can be done as part of this.

22 We are releasing information regarding who

1 is in PCORnet, such as demographics and conditions
2 of people in PCORnet, providing updates on both the
3 observational studies as well as the pragmatic trial
4 development, and also opening up the PCORnet front
5 door for interested investigators and partners for
6 using PCORnet.

7 Further, we have also done a landscape
8 analysis to understand what else is out there, and
9 how PCORnet can uniquely fit a niche that has not
10 been met today in terms of doing clinical research,
11 and making sure we fit into a space that is
12 currently not occupied and that can further enhance
13 the mission as well as be able to deliver clinical
14 research that matters.

15 This does require building relationships
16 and partnerships throughout the U.S. and across the
17 different network partners in PCORnet, and then also
18 developing a plan to create an independent entity to
19 ensure sustainability and administering simplicity
20 as well as enhancing ongoing efficiencies for
21 PCORnet.

22 The operational model is shown here at a

1 high level. What the current plans are is PCORnet
2 needs to be functional for multiple partners in
3 terms of funders as well as those who actually are
4 doing research.

5 If you think about the research market,
6 PCORnet is well-suited for doing government agency
7 sponsored research, PCORI sponsored research, as
8 well as industry and non-profits who have interests
9 that align with PCORnet's mission.

10 An independent PCORnet entity will be
11 formed to allow administrative simplicity for these
12 funders to access and join PCORnet for conducting
13 research. This independent entity can also
14 facilitate innovations for PCORnet, as well as allow
15 easy joining of PCORnet by the various network
16 partners.

17 A virtual coordinating center would provide
18 services and a lean approach for research program
19 development, as well as using the tools of PCORnet
20 and growing the tools and suite of activities for
21 conducting PCORnet research, and through all this,
22 the CDRNs and PPRNs would be part of the PCORnet

1 operations.

2 Just to give some highlights regarding what
3 we have seen for the research market, we have been
4 doing a number of interviews across various funders
5 as well as partners for research, including those
6 here in this room as well as other outside funders.

7 We are already seeing a large interest in
8 the PCORI community with over 20 percent of LOIs
9 proposing to leverage PCORnet resources. We also
10 are seeing a PCORI funded trial, COMBINE, which is a
11 collaboration of CDRNs and PPRNs coming together,
12 and also we have in development Federal funded
13 projects that are co-partnered with FDA as well as
14 the CDC and NIH.

15 In particular, leveraging PCORnet as a
16 partnership with NIH, bringing together CDRNs as
17 well as TTSA's and other groups for doing highly
18 pragmatic high impact clinical trials, such as
19 INVESTED, which is evaluating influenza vaccine on
20 cardiovascular and pulmonary outcomes.

21 Regarding industry engagement, just like
22 this room represents, we realize the research market

1 has a lot of different interested parties, and
2 especially those who are interested in the mission
3 alignment that PCORnet has put forward.

4 Specifically, their interest in terms of
5 understanding and being able to improve people-
6 centered or patient-centered outcomes, and through
7 this mechanism, we have developed an industry work
8 group that was originally providing information back
9 in March 2015, and also gaining an understanding of
10 what their interests and needs are, as well as where
11 PCORnet could fit or not fit with those aims.

12 These discussions have continued, and we
13 had reconvened a smaller group of early adopters of
14 PCORnet this summer, and then we conducted a series
15 of one-on-one interviews as well as teleconferences,
16 culminating with a meeting last week of different
17 industry partners, to understand what are the
18 resources that we have available that would be of
19 mutual interest, as well as understand how we can
20 have an operating model to do PCORnet research.

21 This has generated a lot of interest, and
22 actually interesting developing pilot projects

1 similar to what PCORI has funded so far, in terms of
2 demonstrating in a multi-stakeholder patient-
3 centered orientation of improving the value
4 proposition of PCORnet, and also understanding how
5 PCORnet can be used for both observational studies
6 as well as pragmatic trials.

7 These are the companies that have been part
8 of this early working group, and when we showed them
9 just the topics on the CRGs across these
10 organizations as well as the specific disease topics
11 and broader topics, such as health disparities, all
12 of them have genuine and high interest in all those
13 areas.

14 What has come out from this industry work
15 group is actually developing and getting a
16 refinement on what we view as different products and
17 services in the three categories of data,
18 engagement, and research.

19 They have also provided input in terms of
20 how they are able to engage in PCORnet funded
21 research and providing input in terms of what the
22 operating model and business model could be for a

1 PCORnet future entity.

2 We also explained to them how PCORnet is
3 organized currently in terms of governance and
4 partnership, and how that would need to be organized
5 in a future entity. They were very supportive of
6 that because this is a unique ability for doing
7 research differently that hasn't been done before.

8 Moving forward, we are working to develop a
9 collaborative project that would be in a pre-
10 competitive space, that can be multi-stakeholder and
11 multi-sponsor project areas, such as key research
12 queries and different conditions, such as diabetes
13 and cardiovascular health, early observational
14 studies on described populations, treatment patterns
15 and conditions, are of great interest.

16 Doing simulated studies to further
17 understand the quality and methodologic issues
18 regarding PCORnet data, and also doing comparative
19 studies to see what has been done traditionally with
20 industry versus what is possible in a unique PCORnet
21 model.

22 This has all come together under a larger

1 umbrella towards real world evidence generation,
2 especially of interest currently as the FDA moves
3 forward with PDUFA VI and MDUFA, and their entrance
4 into real world evidence generation, and we feel
5 with PCORnet, we are well positioned to address many
6 of the needs that have been outlined in PDUFA VI and
7 MDUFA.

8 Let me stop there and answer questions.

9 DR. NORQUIST: Gail, I think you had your
10 card up long ago, and then Francis, Larry, Ellen,
11 Alicia, and Bob. Gail first.

12 MS. HUNT: I just wanted to say something
13 to Rachael, and that is that I would really
14 appreciate it if you would include family caregivers
15 in some of your discussion about how important it is
16 to involve patients. In many instances, family
17 caregivers are really the critical link to adherence
18 and all that.

19 DR. FLEURENCE: Point well taken, and we do
20 have patient-powered research networks that are
21 particularly focused on caregivers. We had an
22 Alzheimer's PPRN particularly. I apologize for that

1 oversight.

2 MS. HUNT: Do we have some family
3 caregivers on the PPRN oversight coordinating
4 committee?

5 DR. FLEURENCE: I believe we do, both from
6 the autism and Alzheimer's networks.

7 DR. NORQUIST: Francis?

8 DR. COLLINS: I appreciate the update and
9 like the way in which you are setting this up,
10 including having a front door. Sort of sounds like
11 you're setting up an Airbnb. With Airbnb's, it is
12 all about what is the track record, had the previous
13 guests had a good time, were they well taken care
14 of, was the furniture all right, was the breakfast
15 nicely put together.

16 I suspect as you are talking to industry
17 and other potential clients of the PCORnet, their
18 most pressing question is, is it working, have there
19 been now some successful experiences of other guests
20 who have come to your Airbnb and have gotten great
21 data out of it.

22 I guess it would be very helpful if you

1 could quickly summarize, where are we in terms of
2 seeing the first big results coming out of PCORnet
3 with the studies that PCORI has been funding, for
4 instance, with aspirin?

5 I think the emergence of those data is
6 going to be critical for people's interest in
7 walking through your front door.

8 DR. FLEURENCE: Thank you for the question.
9 We currently have three major research/demonstration
10 projects underway, the observational studies and the
11 one pragmatic trial which is what you referred to.
12 We have a number of other research demonstration
13 projects in the pipeline, and I may talk about that
14 a little bit afterwards.

15 It is important to remember that these are
16 both research and demonstration projects, so they
17 were funded to not only provide -- whet the appetite
18 of future funders, but also funded to help build the
19 infrastructure in a focused way. In that sense,
20 there are learnings that are happening along the way
21 with these first three big studies.

22 The observational studies actually have

1 been absolutely instrumental in finishing building
2 out the distributed research network. They have
3 allowed us to have 117 data sharing agreements
4 signed across the country. They have allowed us to
5 do the data characterization across 80 plus data
6 marks, 60 of which are now approved for research.

7 The two observational studies are well
8 underway. They are overpowered for the aims of the
9 study. We have about 30,000 patients in the
10 bariatric surgery sample, and we have 350,000
11 patients in the antibiotic study. These will be the
12 largest observational studies of their kind in these
13 particular topics.

14 While they have taken a little longer as
15 observational studies than the regular observational
16 studies, I hope I have made the point that they have
17 really helped us build out the infrastructure this
18 year, and they should be reporting out on their aims
19 in the first and second quarters of 2017.

20 DR. NORQUIST: I guess the question is, it
21 sounds like the guests are still there. Do you have
22 a rating yet, I guess, is the question? What would

1 you say? You built it up. The question is at this
2 point do we have a trip advisor rating or whatever?

3 DR. FLEURENCE: If you don't mind, I'll
4 just finish my little description on the pragmatic
5 clinical trial, which is our other big built out for
6 the PCORnet infrastructure, and then I'll go to your
7 question, is there proof of concept or is there
8 interest or were the guests happy with the food.

9 On the pragmatic trial side, there have
10 been some delays in actually activating and
11 launching with contract signing and IRB issues.
12 These delays have actually been due to the
13 difficulty in convincing IRBs of the use of novel
14 methods to identify and consent patients outside of
15 how clinical trials are normally conducted.

16 We have seen sort of an expected, I think,
17 delay in launching. We have now launched, and the
18 proof of concept, I think, we are starting to see is
19 there. A large number of patients have been
20 identified through electronic records. They are
21 being consented in various ways. This is very
22 different from traditional pragmatic clinical

1 trials. They are being randomized electronically
2 after a quiz, in order to make sure they understand
3 what they are consenting to, and then we are
4 implementing all these methods for electronic follow
5 up.

6 Really, decreasing the burden on clinicians
7 and actual patients themselves in participating in
8 this trial. To date, there are over 400 patients
9 recruited and 35 percent of these patients were
10 recruited in the last month. We have a number of
11 sites activating in the next month, more sites
12 activating in the next month.

13 That is sort of just a brief description of
14 where we are at with the observational studies and
15 our pragmatic trials.

16 To your question, Francis, are the
17 investigators happy and is sort of the future
18 funding community happy. I think there is certainly
19 huge interest in the novel approaches that have been
20 developed to scale with what PCORnet can do, the
21 diversity of the institutions that are included in
22 these studies, both on the observational side and on

1 the pragmatic side.

2 Sort of the third piece is great interest
3 particularly to the industry funders, our ability to
4 work very closely and really co-produce the research
5 with patients.

6 I think my answer would be everything is
7 well underway right now in order to obtain the proof
8 of concept for PCORnet and the scale of what we have
9 developed in the last three years, and the
10 conversations are underway with the funders.

11 No one yet has given us a rating of they're
12 not going back.

13 DR. COLLINS: Do you have an estimate of
14 when publications would appear from the
15 observational studies and the pragmatic trial?

16 DR. FLEURENCE: That's a good question. I
17 imagine some time in the third quarter of 2017 for
18 the observational studies. The pragmatic trial is
19 longer, it is a three year trial. It's going to be
20 a little longer.

21 This week, we are publishing our first data
22 on what we are calling our current demographic and

1 conditions, that should be going out this week. We
2 are also starting to sort of trying to publicize
3 more where we are at and what we have done.

4 DR. HERNANDEZ: Let me just add a couple of
5 comments as well. In particular for pragmatic
6 trials, we are breaking through institutional and
7 cultural barriers. There are a lot of gatekeepers
8 in terms of being able to contact potential
9 participants at a large scale, being able to
10 actually use the electronic consent platforms, and
11 even including the questions there.

12 Those are barriers that are now being
13 broken through that can be reused or pathways for
14 other future pragmatic trials to be done. Based on
15 just even our adaptable study meeting that brought
16 investigators, patients, and the community together
17 on Friday, we actually outlined over 10 different
18 perspectives and areas that we were going to put out
19 there in the public domain on lessons learned
20 already to outline these different issues that
21 everyone else will need to actually rally behind for
22 that change. We will put that out there.

1 While our outcome in terms of adaptable
2 will wait until the completion of the trial, along
3 the way, we are going to publish in a variety of
4 forums, including lay as well as traditional press,
5 publications, and journals, what are the lessons and
6 what have been solutions, and then what are future
7 barriers to overcome.

8 One of the things I'll just noted based on
9 our Friday meeting, we actually made a commitment to
10 the adaptable research community that we are
11 actually going to inform the participants first of
12 the results, before traditional publications.

13 The results will go to the participants
14 first, and then we will see if a journal is ready to
15 publish it after the participants here.

16 DR. NORQUIST: Larry, and then Ellen.

17 MR. BECKER: Could you take a moment or two
18 and talk about your process for conflicts of
19 interest, real or perceived, and the independence of
20 the research?

21 DR. FLEURENCE: The conflict of interest
22 for? Which part?

1 MR. BECKER: You are taking in money from
2 various places, and conflicts arise, conflicts of
3 interest. What is your process to make sure the
4 research is independent and not influenced by
5 funders?

6 DR. FLEURENCE: Okay. PCORnet as a sort of
7 legal entity does not exist to date, so technically,
8 PCORnet itself has not taken in any additional
9 research funding. The demonstration projects I
10 discussed are PCORI funded projects, and therefore,
11 they are under the PCORI conflict of interest and
12 processes.

13 In the future as PCORnet becomes its own
14 entity, there will absolutely have to be robust
15 processes in place in order to determine criteria
16 for undertaking and conducting the research.

17 Currently, the PCORnet research committee
18 has developed sort of some initial criteria around
19 that, but I do think it is a process that is
20 underway but not yet fully relevant since the
21 PCORnet studies are currently mostly PCORI funded or
22 NIH funded, or co-funded with FDA.

1 DR. NORQUIST: Ellen?

2 DR. SIGAL: Rachael, I have a few
3 questions, and some of this gets back to my
4 experience. One is what is the overall cost for
5 infrastructure, what is our basic cost? I have two
6 or three others that are aligned with that.

7 DR. FLEURENCE: The current figures, and
8 I'll be discussing them in more depth tomorrow at
9 the joint SSC/RTC meeting, so the current figures
10 are, total funding including research, about \$330
11 million over the two phases, and about \$280 million,
12 I believe, for the infrastructure funding alone over
13 phase one and phase two.

14 This includes infrastructure funding for
15 the 13 CDRNs, the 20 PPRNs, and the coordinating
16 center.

17 DR. SIGAL: The \$280 million is costs going
18 forward for how long?

19 DR. FLEURENCE: The \$280 million is the
20 full cost until 2019.

21 DR. SIGAL: What I'm interested in is the
22 sustainability moving forward. Is it \$50 million

1 just for infrastructure, all those things, and for
2 this to be sustained beyond, we need to understand
3 that.

4 DR. FLEURENCE: The way I think about this
5 is there has been a major initial investment by
6 PCORI in building this infrastructure. The marginal
7 cost of sustaining PCORnet will be slower because of
8 this additional investment into the building blocks.

9 These are critical questions around
10 sustainability, and they involve individual CDRN
11 networks and PPRN networks being able to maintain
12 some sustainability individually, and then PCORnet
13 as a whole being able to maintain its own
14 sustainability.

15 The costs of actually maintaining a future
16 PCORnet are actually smaller than the \$280 million
17 that I described, there will be a central program
18 office whose role will be to do business
19 development, maintain standards, and maintain a very
20 kind of lean program office. Other work will be
21 conducted at the individual CDRNs and PPRNs who will
22 maintain the current data infrastructure through

1 research projects that are going to come through
2 PCORnet.

3 DR. SIGAL: Maybe I can sit down with you
4 later on and talk about this. The one thing I will
5 tell you is there was sustainability after putting
6 in the hundreds of millions of dollars in central,
7 but the methodology, which was funded initially at
8 the NIH, now at the FDA Foundation, has been very
9 difficult now as we go to a user model.

10 We are finding few people if any want to
11 pay for methodology and for research going on. That
12 is something perhaps we can talk about.

13 Of course, obviously, your diversity of
14 funders and conflicts of interest. Really, you
15 should have a better grasp on exactly what the
16 infrastructure cost is going forward and who is
17 going to pay for that, and of course, questions will
18 come from different sources. It's not easy, and
19 again, continuing the research component and who
20 pays for that and methodology, that is another whole
21 issue.

22 DR. FLEURENCE: I agree. These are all the

1 key questions we have to grapple with, and it is not
2 an easy challenge.

3 DR. NORQUIST: Alicia, we will let you go,
4 because you seem very anxious. Then we will let Bob
5 go.

6 DR. FERNANDEZ: I don't mean to be anxious.
7 I hope I don't come across as anxious.

8 [Laughter.]

9 DR. FERNANDEZ: I think John is anxious
10 about my comments.

11 [Laughter.]

12 DR. FERNANDEZ: I want to start by thanking
13 Rachael and Adrian, whom I know, we did residency
14 together, for outstanding work in terms of going
15 from zero to what we have now.

16 However, I want to take us back to slide
17 41, and I want to talk to the Board, and also have
18 the two of you weigh in. We have invested or will
19 have invested \$610 million, roughly, if I added
20 correctly, 330 plus 280, of public monies into
21 PCORnet. As Harlan has told us, we will likely be
22 judged, PCORI's success will partly depend on how

1 PCORnet does and moves forward.

2 I think to extend Dr. Collins' metaphor,
3 what I want to focus on now is who owns the
4 property. It would be great if it gets good
5 ratings, fabulous. We need it to get good ratings.
6 We need it to be useful. Who owns it?

7 As it moves forward and the real estate
8 market changes, and travel gets disrupted in other
9 ways, who will make sure it stays valuable, that it
10 serves the community it needs to serve, that it
11 maneuvers its way through changing landscape?

12 I think that is a discussion we need to
13 have now, and I have spoken at length with both of
14 you, and you have been extraordinarily receptive.

15 I want to put forth as a proposition that a
16 governance model constructed of researchers and
17 patients is insufficient and PCORI needs to resolve
18 that now before we construct another legal entity,
19 and we need to figure that out, what happens if
20 PCORI sunsets, what happens if it doesn't sunset?
21 How will PCORnet go forward?

22 I think I circulated among the Board

1 members, and apologies if I missed the two newest
2 Board members, a very interesting and important
3 article that came out in the Annals two weeks ago,
4 showing the relationship of patient groups to the
5 FDA process.

6 What that article indicated was that
7 patient groups play a very valuable role in the FDA,
8 but a good 20 percent of them are also sponsored by
9 industry and continue to maintain industry roles.
10 Regardless, even if we can all agree on the
11 definition of what is a patient group, which I don't
12 think we should try to attempt, there are more
13 stakeholders, as seen around this room, than
14 patients and researchers.

15 Where are clinicians? Where are other
16 people who will continue to make sure that this
17 wonderful property stays for the people who invested
18 in it, which is ultimately the public at large.

19 In this slide, you outlined some of the
20 things that we are thinking about. Will we think it
21 is okay for the PCORnet breakdown to be 90 percent
22 industry/10 percent NIH? Maybe that is okay.

1 I would say maybe not, but would we ask for
2 you simultaneously to become sustainable, and as
3 Ellen points out, that's not an easy thing, and yet
4 we don't ensure a governance model. I think it is
5 easy to see the conflicts and the pressures that
6 will be brought to bear on PCORnet.

7 I will stop soon. My comment to the Board
8 is we don't have a committee that's organized to
9 look at PCORnet's governance. Is that the RTC? Is
10 that the SOC? Who is doing it? We have had no
11 spirited debate on who are the owners of this
12 wonderful new building, and I think we need to do
13 that. Today, our five minutes are going to be up
14 soon.

15 I don't think we should leave today without
16 at least some focused discussion on this central
17 question, which is a question of governance. Who is
18 going to resolve it? How is the Board going to be
19 involved? How will we interact with Adrian and his
20 colleagues around all of that?

21 Thank you all.

22 DR. NORQUIST: Freda, I think since you are

1 the chair of the RTC, I think this is something to
2 which you should respond.

3 DR. LEWIS-HALL: The RTC has been paying
4 attention to this issue as kind of the committee
5 that oversees the evolution. We have recently
6 combined the RTC and SOC to begin to ask some of the
7 critical questions that you have asked about, you
8 know, if this is the infrastructure, then who is
9 really overseeing the entirety of the work that
10 happens moving forward from a research plus
11 infrastructure standpoint.

12 We had our first joint meeting, and have
13 plans for moving forward. Those are really the two
14 committees right now that are focused on this. Our
15 plan is to continue to evolve the governance
16 platform and bring it back to the Board as a
17 proposal, if you would, for full discussion.

18 I took notes while you were making your
19 comments, because I think three things. Thing
20 number one is maybe we will move up the discussions
21 and plan more than one, a series.

22 Two is our plan to take a look at some of

1 these governing principles, but I'll make sure that
2 we add in this kind of conflict or potential
3 conflict that you see, and the idea that one of the
4 potential resolutions for that or mitigating against
5 that would be to have a governance board that is
6 constructed differently than perhaps what we may
7 considered thus far.

8 More often to the Board, an ongoing
9 conversation, continue the RTC and SOC discussions
10 as they have been, and then to put an exclamation
11 point behind your questions about whether or not we
12 can do a better job of managing the potential issues
13 moving forward by changing some of the conversations
14 we are having about governance.

15 DR. FERNANDEZ: Thank you so much, Freda.
16 That sounds wonderful. The only thing I would point
17 out is we probably have some process underway to
18 spin off the PCORnet entity, and the governance part
19 should be in place before obviously that happens.
20 Once it becomes a spin off, it's spun off.

21 DR. NORQUIST: I think that is what Freda
22 was saying.

1 DR. LEWIS-HALL: Yes. I also want to add
2 that I think the evidence generation platform slide
3 was a really critical one, because it really
4 suggests that the conversations we have been having
5 alone as PCORnet are now going to be in a different
6 context because however these things move forward,
7 we are now going to need to consider how and if it
8 would operate more productively in the context of a
9 national evidence generation platform.

10 What happens if the PMI is onto that? What
11 happens if the NIH collaborator -- how do we look
12 different as kind of an engaged national platform?
13 We have that additional insight to bear on this as
14 well.

15 DR. NORQUIST: Alicia, nothing should
16 preclude you from having ongoing discussions with
17 Freda and the others about what concerns you may
18 have. I would encourage you to have ongoing kind of
19 discussions. Bob?

20 SPEAKER: Thank you. My questions also
21 follow about governance, and the issue I think in my
22 eyes is focused on two slides. If you go to slide

1 39, which is sort of the current status with PCORI
2 at the top, and I'd like to focus on the
3 coordinating center, which is the dotted line off to
4 the right, mostly a service function, I think.

5 If you go to slide 46, which is the plan,
6 PCORnet operations, the coordinating center forms a
7 gigantic block in the middle between the front door
8 and the CDRNs and PPRNs. It seems to me that is a
9 relatively dramatic change and uptick in the
10 responsibility of the coordinating center.

11 In your thoughts about the independent
12 PCORnet operation, is this slide 46 actually how you
13 perceive the coordinating center, and then from a
14 business model, what is the current burn rate of the
15 coordinating center?

16 I assume almost all the money now for the
17 coordinating center comes directly from PCORI, and
18 yet in the new independent model, I would assume --
19 is the coordinating center the collector and then
20 distributes money out to the CDRNs and PPRNs, or
21 does it go in the opposite direction, that the CDRNs
22 and PPRNs have projects and they fund the

1 coordinating center for administrative functions?

2 DR. HERNANDEZ: Let me address that. What
3 this depicts is really a virtual coordinating
4 center. For this to actually work at scale, we
5 actually have to have coordinating center functions
6 across PCORnet. Taking advantage of the different
7 networks that they develop, centers of excellence,
8 specialties, similar to what is being outlined for
9 the different collaborative research groups.

10 The coordinating center function will
11 depend on the various aspects of the network. Our
12 aim was to actually create multiple coordinating
13 centers for PCORnet, so there is a broad band for
14 doing research.

15 The concept here specifically is there will
16 be a set of common services that would need to be
17 really lean, so in terms of projections of overall
18 revenue, it would be in the range of 4 to 6 percent
19 of total revenue, so aiming to keep it much smaller
20 than what a typical coordinating center activity
21 would be for an infrastructure, which usually for
22 NIH trials or NIH networks, is on the order of 25 to

1 50 percent of total revenue.

2 The other thing you bring up in terms of
3 the burn rate, and it ties to Ellen's question
4 earlier, we do have a minimal cost model for the
5 different networks as well as what the coordinating
6 center functions would be. It depends on the total
7 size of the network. You can imagine if there are
8 say 100 different health systems and network
9 organizations, the total cost can be quite large.

10 On average, in terms of a network or
11 coordinating center function, it varies in terms of
12 a few hundred thousand dollars to several hundred
13 thousand dollars, so trying to keep things in terms
14 of minimal costs or a burn rate that is needed for
15 future activities at a low cost. Right now, it is
16 all infrastructure building, but certainly we can't
17 maintain a business model at that level of funding.

18 DR. NORQUIST: We have Barbara and Andy.

19 DR. McNEIL: Thank you. I have actually
20 two questions, and one of them is amplification on
21 what Alicia talked about. Assuming this moves on to
22 an independent organization, I know, Rachael, at our

1 last meeting, you raised the issue of funding
2 another \$40 million towards this group, and I see it
3 is in one of the slides for tomorrow.

4 I wondered if you could say a few words now
5 about why that would be useful, and why it would be
6 useful to use that now if we wanted to spin this
7 organization off as an independent entity ultimately
8 versus using additional funding of our core research
9 work, and Evelyn told us yesterday at the SOC that
10 we may have other money for some of our regular
11 projects going forward, independent of PCORnet.

12 I wonder if you could say a word about
13 that, and then I have one more question for Adrian.

14 DR. FLEURENCE: The question about the \$40
15 million in the PCORnet budget moving forward, so
16 2017, 2018, and 2019, \$20 million of these dollars
17 were earmarked by the RTC in order to continue doing
18 work with the patient-powered research networks to
19 fully leverage the power of patients and communities
20 in PCORnet, so really sort of take what we have now
21 learned from the current PPRNs and move that to
22 another level of engagement.

1 Currently, that money is divided into \$10
2 million under research and \$10 million under
3 infrastructure. Whether that would be the final
4 make-up of that bucket of money, I think, is to be
5 determined, and any project would have to come in
6 front of the RTC, the SSC, if it was under research,
7 and then the full Board for approval.

8 This first \$20 million was earmarked at the
9 request of the RTC in order to really further
10 leverage and develop the patient and community
11 engagement within PCORnet.

12 DR. NORQUIST: I think we will go into more
13 detail about that in the meeting. I just checked
14 with Evelyn. We're not running out of money. We
15 can clarify that. We don't want to give the
16 impression that somehow we are running -- there is
17 an issue that we will come to a point at which we
18 have to make choices about where we are going and
19 where we will spend our money, but we're not running
20 out of money. I think it is where we leverage our
21 money and where we put it at this point.

22 I don't want the perception that we are

1 running out of money at this point. It's where we
2 put our money at this point. I think tomorrow we
3 can have more of a discussion on that.

4 DR. FLEURENCE: I'd like to make just one
5 final point because it goes to Alicia's point about
6 sustainability. To put it bluntly, PCORnet on one
7 extreme could become a CRO doing industry funded
8 projects, or on the other extreme, could be looked
9 at as a public good thing, purely publicly funded
10 research.

11 A public good needs some continued
12 investment for the infrastructure, there is a cost
13 involved in maintaining the data infrastructure that
14 we have developed. Whether it needs to be as large
15 as we have, I think that is a question for the Board
16 to look at, whether we do need 117 institutions
17 across the country, whether all data is of equal
18 quality. I think these are important strategic
19 questions for the Board.

20 The second \$20 million that you discussed,
21 Barbara, are money that is potentially earmarked for
22 the ability for PCORnet to be able to launch into

1 its new status and be able to maintain some of that
2 data infrastructure that would be needed to continue
3 funding those public good type projects.

4 DR. McNEIL: I think it would be great to
5 have really detailed data on both of those
6 components. I do have one question for Adrian. I
7 think we talked about this before.

8 You mentioned the use of the data mark, the
9 common dataset and how that is being widely expanded
10 and used by others. The question is there are many
11 other common datasets around, some of which for
12 various kinds of clinical studies.

13 Here's the question. To what extent do you
14 think your dataset or your common data model will
15 take over the world and will become the one that
16 everybody uses? If it isn't, then you might -- talk
17 to me about the pro's and con's.

18 DR. HERNANDEZ: Sure. We describe PCORnet
19 as more than data, data is necessary but not
20 sufficient, so one of the key components, and we
21 hear this from multiple stakeholders, being able to
22 use the data in new ways which incorporates new data

1 streams in terms of what is actually available in
2 the health systems, but also data streams that are
3 directly derived from people.

4 The other thing is actually being able to
5 engage large communities at large in a more rapid
6 fashion than what has been done before, so then it
7 allows those communities to say yes, this data can
8 be used for this purpose.

9 A third thing is actually getting back
10 information to people. When we do a study, if you
11 actually can imagine, say for adaptable, we have
12 hundreds of thousands of people that have actually
13 been identified. We can report the results rapidly
14 to the 20,000 participants but then we can also
15 report back the results to all the others that are
16 adaptable like patients.

17 The common data model is a core asset, but
18 a key component is actually what are other modules
19 in terms of data assets that are added to it, as
20 well as the engagement parts of it, and the pre as
21 well as the dissemination sites.

22 DR. NORQUIST: We are way over here. Andy

1 and Bob. We are going to have much more of a
2 discussion about this tomorrow. There have been
3 some wonderful comments. Adrian and Rachael, we
4 thank you very much for this. There will obviously
5 be some things to bring back to the full Board here
6 at some point.

7 Andy, and then Bob, and then that will be
8 it.

9 DR. BINDMAN: Thanks. I'll try to be very
10 brief. I think this has been a very useful
11 discussion. I just wanted to make sure, explicitly
12 just to understand, will we have a method to make an
13 accurate estimate of the ongoing marginal costs of
14 sustainability? You made some sort of general
15 statements around it should be sort of less
16 expensive after this large investment.

17 Will we have a very open and transparent
18 way of communicating that to ensure that the entity
19 going forward -- we have a large public
20 understanding of what those costs are so that it is
21 something we can help to assess the possibility of
22 the public type sponsored research that you are

1 talking about, and what will be the fundamental
2 basis of being able to do that?

3 DR. FLEURENCE: The short answer is
4 absolutely yes, we are currently working on cost
5 models as we speak. Part of the challenge is that
6 we have to go back and forth with the individual
7 CRNs to ensure it is an iterative process that works
8 for both the constituent parts as well as the
9 central parts.

10 We need another couple of months for these
11 to be finalized, and these financial models can
12 absolutely be brought back to the Board and be
13 discussed.

14 SPEAKER: Common data models and going
15 global, have you all engaged with ICOM, which is a
16 consortium that Michael Ployer and Tom Lee up in
17 Boston are doing to develop international common
18 nomenclature --

19 DR. SELBY: Bob, we are very involved.
20 PCORI is, on an international standardized set of
21 outcomes.

22 DR. HERNANDEZ: The answer is yes, just in

1 terms of other things, Sweden, Singapore, et cetera,
2 we are actually keeping everything very open, and
3 different groups are repurposing.

4 DR. NORQUIST: All right. Thank you both
5 very much, and we appreciate this, and an ongoing
6 discussion much to be addressed. Thanks.

7 DR. SELBY: I just wanted to say particular
8 thanks to Alicia who raised the question in the
9 first place and occasioned this presentation on
10 governance. Governance, I think, is something that
11 none of us have thought about enough, very difficult
12 to discuss when we don't know about PCORI's own
13 future.

14 We told them to sustain themselves with or
15 without us. The scenario is very different with
16 versus without us.

17 The Council of PCORnet is right now
18 launching over the next six months its own
19 discussion of governance. This couldn't come at a
20 more timely point, and we will look for a venue to
21 have more in-depth conversation.

22 SPEAKER: I just want to make one final

1 comment about this, which is two things. One, I
2 think for Adrian and Rachael, the Board is being
3 appropriately engaged now, and we should be, we have
4 to demand accountability.

5 I've said on the phone to the group and
6 I'll say publicly, we have made an immense
7 investment in the success of this endeavor. It will
8 in a way define us, it is impossible for us to do
9 anything but work as hard as we can to ensure its
10 success.

11 All of the comments that have been made are
12 extraordinarily good, Alicia, with great respect.
13 You are raising the critical issues. Everyone
14 around the table are, everyone is raising very
15 important issues, and this is a defining moment for
16 the leadership to be able to help PCORnet be
17 successful.

18 I also want to say I've had the opportunity
19 to see up front and personal the groups working and
20 the staff working and PCORnet and the whole range of
21 individuals, and I just can't tell you how inspiring
22 it is to see people putting in the kind of time and

1 effort, the talent that has been brought to bear
2 across a broad spectrum of constituencies and
3 stakeholders.

4 I know the Board knows it, but just to say
5 publicly, it's almost like you're testifying at a
6 Senate committee, you're getting very tough,
7 peppered with a lot of questions, we should be,
8 that's our job, but I just don't want them to leave
9 without a moment of reflection and appreciation
10 because they have so many other things they could be
11 doing on the PCORnet side.

12 Rachael, bless you, the kind of hours you
13 put in and the dedication. I just want to pause for
14 one second to just reflect on that.

15 DR. NORQUIST: I think it's like we're the
16 parents, we want our kids to grow up well, so they
17 are going to take a little bit of flack here for a
18 while, but I hope you appreciate that, that is the
19 issue here.

20 [Applause.]

21 DR. NORQUIST: We could eliminate the
22 break, but I don't think that is a good idea.

1 People will start breaking anyway, and then Robin
2 will not have anybody for her presentation. We will
3 take a ten minute break.

4 [Recess.]

5 DR. NORQUIST: We're going to get started
6 here. For those of you on the phone, we are
7 starting back. I'm trying to get some other Board
8 members down here. Leah and Freda, you are being
9 called back to the table. Kerry?

10 Robin, I think the easiest thing to do is
11 to go ahead and start with the presentation. That
12 will calm down some of the conversation.

13 Robin Newhouse, who is the chair of our
14 Methodology Committee, will now be giving us an
15 update on the Methodology Committee. Do we have
16 other Methodology Committee members here that you
17 want to introduce?

18 DR. NEWHOUSE: No, not this morning.

19 DR. NEWHOUSE: Hi, this is Robin Newhouse,
20 and I'm pleased to provide an update of the
21 Methodology Committee's work over the next year, and
22 to update you on the status of the methodology

1 report revisions.

2 Over this coming year, there are a number
3 of areas where methodology standards can be helpful
4 to studies that are funded by PCORI. These
5 suggestions have come from the field, input to the
6 Methodology Committee through our public form on the
7 Web, through the work of the staff of PCORI
8 identifying areas where standards would help.

9 They include a set of four standards. The
10 first one is in meta-analysis. Our intent is to
11 develop new standards for individual participant
12 data and network meta-analysis, and to develop
13 principles for guidance for these kinds of synthesis
14 that ensures a decrease or lack of bias in the
15 conclusions.

16 The second set of standards will focus on
17 complex interventions. These are standards that
18 have been underway, and we have developed a draft
19 set of standards, and our next step is now to
20 convene a stakeholder group to develop additional
21 methods for guidance over the next two years.

22 The third set of standards are standards

1 that we have heard a need for a number of times over
2 the last year, and that includes qualitative
3 methods. PCORI is funding a number of studies that
4 are mixed method studies and the importance of
5 standards for qualitative research is needed.

6 This is an area where those that are
7 currently on the Methodology Committee don't have as
8 much depth in our expertise, so it's an area where
9 we sought to appoint another advisor to the
10 Methodology Committee that I will tell you about in
11 just a couple of minutes.

12 The last set of standards will be related
13 to data management, and these were our guidance on
14 standards that will allow reproducible research over
15 the next nine months.

16 In partnership with other organizations --
17 actually, we have a meeting tomorrow that we are
18 going to discuss ways that we can reach out to
19 others that are doing some work in this area. The
20 last one being data management.

21 The four areas of focus for the Methodology
22 Committee are around additional standards for meta-

1 analysis, individual patient data and network
2 analysis, complex interventions, qualitative
3 methods, and data management.

4 We sought an advisor for qualitative and
5 mixed methods to help inform our development of the
6 methodology standards, and most recently, we have
7 been very happy to have Susan Zickmund, who is a
8 Professor at the University of Utah, School of
9 Medicine, Department of Internal Medicine, and
10 Division of Epidemiology, join us to help.

11 She has some deep expertise on data quality
12 and qualitative methods, and will be joining us
13 tomorrow for the discussion about how to move
14 forward with development of the qualitative
15 methodology standards.

16 The second area that we are interested in
17 seeking some advice is in the area of data quality
18 and large observational dataset management. We need
19 to do a little more work on drilling down exactly
20 the type of expertise we need in terms of advisors
21 for that portfolio.

22 The methodology report has been revised

1 based on feedback from public comments. Each
2 section of the methodology report has been reviewed
3 by subgroups and reviewed again by staff and the
4 Methodology Committee work groups.

5 Right now we are developing a strategy for
6 updating the stories that are included in the
7 methodology report, and we are expecting that we
8 will be recommending a final version for adoption by
9 the Board over the next couple months. The Board
10 then will consider the revised standards and reports
11 for adoption and posting.

12 You may remember earlier this year we went
13 through a process by which all of our methodology
14 current standards were reviewed. We received public
15 input. We made those revisions. We created a new
16 set of standards for designs with clusters, all of
17 those have now been incorporated into the report,
18 and we are ready to create a final version to bring
19 it back to you.

20 Let me stop there and ask if there are any
21 questions about our work for the year. Yes, Sharon?

22 DR. LEVINE: Robin, in meetings, I'm

1 hearing an increasing call for research that
2 incorporates "real world evidence." Does that term
3 have any meaning? What does it signify?

4 DR. NEWHOUSE: I'm not going to give you an
5 academic definition. I'm going to just say what I
6 hear when I hear that. I hear this is the kind of
7 work that PCORI does. The real world evidence is
8 evidence that answers questions that are generated
9 by clinicians and stakeholders and patients, and can
10 be translated very quickly back into the clinical
11 environment. It is evidence that patients need to
12 answer questions that are important to them.

13 When I hear "real world evidence," the
14 health systems that I work with are looking for
15 answers to questions they need to answer today for
16 people today, not 5 or 10 years from now, but today,
17 when they are encountering the problems.

18 DR. LEVINE: It's not qualitatively
19 different than any category, for example, of the
20 trial methodology, it is not a methodology issue
21 around "real world evidence?"

22 DR. NEWHOUSE: I would not say there is a

1 methodology. I would say that we always are
2 favorable to comparable clinical effectiveness study
3 where there are comparators. The qualitative
4 evidence is so important to understand why it works
5 in different settings and situations, how we can
6 best implement it so we can spread the
7 interventions, and make the evidence more available
8 in settings that are not using it today.

9 DR. NORQUIST: Ellen, go ahead.

10 DR. SIGAL: Sharon, this is like a hot
11 subject today in research, real world evidence. As
12 opposed to clinical trials that are very pristine,
13 to answer very specific questions, as we know, first
14 of all, few patients, 3 to 5 percent of our patients
15 participate in clinical trials, so that is not real
16 world evidence.

17 It's really a much broader cross section of
18 patient populations who really are included, you
19 know, people with diversity, people who are just not
20 part of it, and how you synthesize and get that
21 evidence is another whole issue

22 There is a methodology to it, but it is

1 really not relying on clinical trials that are very
2 pristine, to answer very specific questions, that do
3 not include patients with multiple conditions, you
4 know, racially diverse, all these things.

5 It has become very important, particularly
6 in post-marketing, the FDA uses it a lot for really
7 getting data on what happens to these approved drugs
8 in real world settings.

9 There is a whole methodology of what it
10 means and how to incorporate it, but it is extremely
11 hot today.

12 DR. KRUMHOLZ: Real world evidence, to me,
13 is what we have been doing. It's a good package
14 name for it. I have a question for you, which is
15 central to this issue of real world evidence, which
16 is we had a lot of discussion about the ability of
17 observational data to make inferences about
18 causation. We actually sponsored a group to talk
19 about that. The Methodology Committee has spent a
20 lot of time talking about it.

21 Still a persistent concern that no matter
22 what -- I'm talking almost environmentally, within

1 our culture and environment, no observational study
2 is going to have the force to be able to change
3 practice.

4 One of my question is whether or not in
5 this phase of PCORI's evolution we should be
6 focusing -- would it be the sense of the Methodology
7 Committee that if we want to be able to do
8 comparable effectiveness, that we should be focusing
9 more intently on RCTs, rapid RCTs in disparate
10 populations, trying to bring in more diverse groups
11 to participate than we ever have before, and in
12 part, leveraging our relationships that we built
13 over six years in order to do that, but this is what
14 is going to be required if we really want to change
15 practice.

16 I'm increasingly seeing almost every
17 article published that is observation being forced
18 to include a paragraph that says by the way, this
19 can say nothing about causation, caveat, limitation.

20 In fact, there is an article in JAMA
21 looking at therapeutic hyperthermia recently, a
22 friend of mine published, nice paper, said this

1 could be harmful, and the whole conclusion was maybe
2 we should think about an RCT.

3 We're talking about real world evidence,
4 but we really are at a point where it is just
5 prelude to trying to do something more definitive.
6 I'm really wondering whether or not we should become
7 an RCP machine.

8 Back to my question to the Methodology
9 Committee, which we depend so importantly on, I
10 think it would be really great to get some of your
11 sense and maybe even more formally their sense on
12 whether this is true.

13 But for my part, I do not know an
14 observational study in general, short of things like
15 smoking, there have been historically a few
16 instances where it has made a big difference, but in
17 general, if it is something that could be
18 randomized, we should randomize. If it is something
19 that can't be randomized, that's another story, we
20 just have to use the best evidence that's possible.
21 There are many instances like that.

22 What is your sense in the Methodology

1 Committee at this point with regard to the use of
2 observational studies where it would be possible to
3 randomize if we had the will?

4 DR. NEWHOUSE: I can't speak for the
5 committee because there would be great debate about
6 that, I do believe. What I would say is in the
7 health systems and clinical practice, observational
8 data is something that they need to use to direct
9 their decisions every day, when there is no clinical
10 trial to answer the question.

11 There certainly is a place and a need for
12 both. I think it's a good question to open up to
13 the Methodology Committee, but I think your question
14 is about the mix of the funding portfolio toward
15 clinical trials and observational studies, and what
16 I would say is we certainly could engage in a
17 healthy dialogue, and since the Methodology
18 Committee members are embedded on the committees, it
19 would be a good place to bring that back.

20 DR. NORQUIST: I think that is actually an
21 important point. One of the things I see a lot,
22 particularly in guidelines development stuff, is

1 people say well, it's just observation, you know,
2 what's the point. The practitioners are like I can
3 just keep doing what I want to do.

4 I think at some point somebody needs to
5 defend observational data.

6 Andy, and then Bob.

7 DR. BINDMAN: I guess just a little bit
8 more further to this point. I must say that it
9 seems to me one of the most valuable things about
10 observational data is the potential to address
11 external validity versus the randomized trial, which
12 is clearly designed for internal validity.

13 Yet, I'm a little unclear from the
14 presentation whether the orientation is to try to
15 see if you can have your cake and eat it, too. Are
16 you proposing that observational studies could be
17 refined to the extent that they could become an
18 efficient way to address internal validity?

19 I think Harlan's point sort of gets that,
20 maybe even with a lot of work it's very hard to kind
21 of pull that off. Is the emphasis or the
22 orientation of the role of the observational studies

1 mostly to come up with internal validity or to see
2 the degree to which from randomized trials we can in
3 fact see in real world what's going on with regard
4 to effectiveness, sort of the classic distinction
5 that has been made about efficacy in randomized
6 trials versus effectiveness of real world
7 application.

8 I've not heard an explicit discussion about
9 whether the goal of using the observational data
10 from PCORI is to try to become a low-cost substitute
11 for what you would get potentially compared to
12 randomized trials versus trying to understand
13 effectiveness and how it plays out in the real world
14 setting.

15 Those are slightly different uses of the
16 observational data.

17 DR. NEWHOUSE: I would say the role of the
18 Methodology Committee was not to make a
19 recommendation about how PCORI should be funding.
20 That is more the Board's role. Our role was to
21 identify methodology standards that would strengthen
22 the conduct of observational studies.

1 Many of the standards that were created
2 were to that goal. I'm not sure if that answers
3 your question, and maybe the answer to the question
4 is part of the bigger discussion that we need to
5 have.

6 DR. NORQUIST: Is it to strengthen the
7 methods for external validity or is it to in fact
8 try to create the capacity to draw inferences about
9 internal validity?

10 DR. NEWHOUSE: I would say that it moves
11 toward trying to draw inferences for internal
12 validity, while understanding the importance of
13 external validity in observational studies.

14 DR. NORQUIST: Bob?

15 SPEAKER: To my maybe naïve mind,
16 randomized trials were the solution for the
17 inability to understand the inherent biases in what
18 we did to certain people was the way we did it.
19 Most of the observational trials were relatively
20 singular experiences.

21 Today, as we move into the world of big
22 data and we have records on millions of people, a

1 lot of these experiments have already been done, and
2 just on the sheer numbers, you can make some pretty
3 strong inferences and begin to understand and wash
4 out whatever inherent biases there are, and by the
5 way, there are still huge randomization biases in
6 randomized trials that are not well understood, but
7 when you get bombed with enough of them, you can see
8 them.

9 I think the ability to begin to really
10 appreciate what we can learn from observational
11 studies. In many ways, if we can provide validation
12 to them, we can begin to influence what happens to
13 people, and we can also really begin to influence
14 how we conduct clinical trials in much more
15 efficient ways by sort of point of care enrollment
16 and conducting trials within this completely
17 external construct of the clinical trial.

18 We learn by doing, and we learn by
19 understanding the process by which we don't.

20 DR. NORQUIST: Leah?

21 MS. HOLE-MARSHALL: Thank you, Robin. Just
22 a couple of comments, especially on the priorities

1 for fiscal year 2017. I appreciate seeing that
2 individual participant data standard included in the
3 meta-analysis, and I know we are embarked on that
4 now without the standard in place that we are going
5 to do and learn at the same time. That is very
6 helpful, and I appreciate that.

7 I didn't see anything on NF1 studies. We
8 have funded an NF1 study with a lot of interest or
9 questions about when those are most appropriate and
10 what standards to use if we are going to use NF1
11 studies.

12 If it is not in this, is it a subgroup
13 under one of these, or is it something given your
14 other priorities did not make the list?

15 DR. NEWHOUSE: It didn't make the list at
16 this time, but we have certainly discussed it and
17 are aware of the importance, particularly in the
18 area of rare diseases. Yes, we have discussed it,
19 but just haven't picked it to move forward with it
20 yet.

21 MS. HOLE-MARSHALL: Would there be
22 something in the interim given being on the

1 Selection Committee, it is difficult for us when we
2 get requests for funding of this because we have no
3 standards, that we should be looking at using --
4 perhaps there is something in the interim that we
5 can look to focus on, should we need that. Maybe
6 there are some thoughts around that for us.

7 My other question, I think, goes along the
8 lines of some of the other Board members, now that
9 we are starting to gather a body of data from the
10 studies that are being published, I'm wondering if
11 the Methodology Committee would consider an
12 evaluation of a select body of evidence that we are
13 producing to help us continue to refine what we ask
14 for in funding announcements.

15 It may help answer some of the questions
16 around the table, too, of here's what you in fact
17 funded and here are the types of information that
18 could help make informed decisions that are high
19 integrity that we are generating versus information
20 that is either a lot lower in integrity or maybe
21 wasn't as valuable, so we can continue to focus on
22 that.

1 I know that hasn't been your charge in the
2 past, but I think you are such a valuable group that
3 it would be useful to talk about that.

4 DR. NEWHOUSE: Just to summarize, I think
5 you are saying we would receive a synthesis of the
6 studies that are funded to make some judgment about
7 where standards could matter or where methods could
8 be improved.

9 MS. HOLE-MARSHALL: Things for us to focus
10 on, it could impact our funding announcements, for
11 instance, it could impact especially when we do
12 targeted ones of high dollar. If there is
13 specificity that we want to include in the
14 methodology, if we're going to invest \$10 million in
15 this study, it better have the following criteria
16 adhered to, to make sure it has the highest chance
17 of being quality work.

18 DR. NEWHOUSE: We will take that back to
19 the committee. Thanks, Leah.

20 DR. NORQUIST: Other questions or comments?

21 [No response.]

22 DR. NORQUIST: Robin, thank you very much,

1 and of course, thanks to the committee for all the
2 hard work I know all of you are doing. Thank you.

3 Our next session is a special kind of
4 anniversary panel. Joe has organized this and is
5 going to lead it. I don't know where our
6 distinguished guests are. I saw them earlier.
7 Steve Lipstein and Gene Washington.

8 Gene, we were joking. We thought you were
9 going to come in in costume for Halloween.

10 DR. SELBY: Good morning, everyone.
11 Welcome to the last town hall meeting of this
12 campaign season.

13 [Laughter.]

14 DR. SELBY: I don't know whether I should
15 refer to these guys as the candidates or the
16 defendants, but here they are. They're indulging me
17 actually with a set of questions that I contributed
18 to as well as others. We are at six years. These
19 two gentlemen had the leadership role with the Board
20 of Governors in September of 2010, and had to figure
21 out a lot of things from scratch, had to make an
22 organization out of whole cloth.

1 It's a particular treat and an honor to
2 have them both come back, and I want to thank you,
3 and I think it must say something about how much
4 they still care about PCORI, that they are here with
5 us today.

6 The fact checkers are on line, I believe.
7 Is that right? My COO, Regina? You can watch on
8 the screens at home if there is a deviation from the
9 truth. I don't expect it. We don't encourage it.

10 Opening remarks. Would either of you like
11 to make a little opening comment? Then we are going
12 to turn it over to the audience, so probably people
13 from all over the country will be asking questions
14 today.

15 DR. WASHINGTON: First, I am Gene
16 Washington. I served as the first chair of the
17 Board of Governors for PCORI. I am currently at
18 Duke University.

19 MR. LIPSTEIN: My name is Steve Lipstein.
20 I was Gene's sidekick as the first vice chair on the
21 PCORI Board. I am currently -- still the President
22 of BJC HealthCare in St. Louis.

1 DR. SELBY: Great. We will go straight to
2 the audience. I have Ms. Nick Wilson.

3 MS. WILSON: Hi. I'm Nick Wilson. I am
4 from Sonoma County, California. my question is what
5 did you as the Board make of the name PCORI was
6 given? It's notable that the name PCORI doesn't
7 reference the clear mandate of comparative clinical
8 effectiveness research, and the legislation provides
9 almost no instructions for conducting patient-
10 centered outcomes research.

11 DR. WASHINGTON: First of all, I didn't
12 realize I had skipped the introductory comments, but
13 I'll just say I'm delighted to be back. I have
14 truly missed this group and the collaborative spirit
15 that always embodied our gatherings. Good to see
16 all of you again.

17 For me, even though you are directing this
18 to me and Steve, this to everybody in the room
19 because you were all there, but to me, I thought it
20 was an inspired choice of names. The reason why was
21 because it in a very succinct way provided us with
22 multiple different anchors.

1 It provided us with the anchor of patient-
2 centered, and if we had just been talking about
3 comparative or clinical comparative effectiveness
4 research, it would have been a little bit more
5 difficult for us to stay as closely linked as I
6 think PCORI has successfully done over the past six
7 years.

8 It also put the emphasis on research, in
9 terms of the aura, and then third, importantly, it
10 put emphasis on outcomes, and that we were
11 conducting research, not for the sake of research,
12 but really for outcomes that mattered most to
13 patients.

14 I don't think that is captured by the
15 phrase "comparative effectiveness research," and it
16 was for PCORI to link comparative effectiveness
17 research to PCORI rather than vice versa. I happen
18 to believe the organization has done that
19 exceedingly well.

20 MR. LIPSTEIN: I would add, first of all,
21 Russell, you are my replacement, right? There is
22 somebody else who is new, too. The two of you

1 should just know that you have joined an
2 extraordinary group of people that Gene and I came
3 to not only think of as fellow Board members, but
4 really colleagues and close associates, and we got
5 to know each other in the formative stages of PCORI,
6 and our personal relationships are probably equally
7 as strong now as our professional relationships.

8 By way of introduction, I would add that
9 when PCORI was formed, Gene and I didn't know each
10 other. We had never met any member of the Board.
11 One of the first things I did, and I will leave this
12 as a present behind because I brought all my
13 remaining hard copies of the PCORI statute, and the
14 Sharpies, where we actually went through the
15 statute, I brought you a spiral bound copy of the
16 statute.

17 We had to go through it, and to say there
18 are some inconsistencies in the statute would be as
19 Sharon just said, an understatement.

20 For example, PCORI was supposed to be
21 established as neither an agency or an organization
22 of the Federal Government, and yet, the first two

1 Board members that were named to be on this Board
2 were the Director of the NIH and the Director of
3 AHRQ, and okay, we are supposed to be independent of
4 government, but our first two Board members lead two
5 of the leading health care agencies in the
6 government.

7 The second thing it said was we had to be a
8 not for profit corporation incorporated in the
9 District of Columbia, but Gene was living in Los
10 Angeles and I was living in St. Louis.

11 Literally, the only thing that we really
12 felt like we had to go by in the initial days was
13 the statute on how to get started, and how to look
14 at both what was in the name, as your question
15 implies, but also how we were supposed to go about
16 organizing and establishing this Board.

17 Some of you will remember the very first
18 meeting in Los Angeles was paid for by BJC
19 HealthCare because we didn't have any money in the
20 bank at that time.

21 We formed ourselves very quickly. We were
22 appointed the end of September/early October. We

1 convened in November. By January, we were working
2 on the first two key provisions of the statute. One
3 was to establish national research priorities, and
4 one was to establish a research agenda.

5 While we were doing that, we recognized
6 that we probably would benefit from having some
7 staff. We literally launched our search committee
8 in January of 2011 that brought Joe into PCORI in
9 July of 2011.

10 All that is by way of just some background
11 to say that we were actually working very hard and
12 making a lot of decisions as quickly as we could be
13 using this not clear statute as our star, which is
14 why we went through and highlighted it very, very
15 extensively at one of our early meetings.

16 What I remember came out of that early
17 meeting was the high ground among all of us was the
18 word "patient," whether we were surgeons,
19 cardiologists, health services researchers, whether
20 we had been in medical school or not. We had and
21 still have psychiatrists on the Board, which is
22 really important. We had a couple of lawyers who

1 were actually functioning as our general counsel
2 because we hadn't retained legal staff yet.

3 Whatever we did, when we went through the
4 statute, we all could come back to the patient as a
5 moral compass and a high ground around which we
6 could build our national priorities and our research
7 agenda.

8 DR. SELBY: I failed to say a couple of
9 things. One is one purpose of this is to remind all
10 of us, and particularly our two new members, of that
11 early history and how we got to be the way we were.

12 And second, really would like to invite
13 other Board members, as we go from question to
14 question, if you have something to add on this
15 question about how did the name that we were given
16 affect us, or what did you make of it when you first
17 saw it, feel free to chime in before we go to the
18 next question.

19 Sharon?

20 DR. LEVINE: Sharon Levine, Board member.
21 I think one of the things I think has stuck with me,
22 we had a very, I would say, intense discussion about

1 patient versus person, and whether in fact by what
2 the statute said we ought to be thinking about
3 people in the broader sense of the word and not just
4 those who are "patients," which really is defined by
5 an encounter with the health care system, and if in
6 fact, the country and taxpayers and payers who are
7 funding this institute were to get the best return
8 on the investment of those dollars, we would be
9 looking beyond illness and health condition, and
10 looking at interventions and approaches that
11 improved health in the broadest sense.

12 Speaking of the statute, I think what we
13 could do is somewhat constrained by the fact that we
14 had six years to show something -- I'm sorry, nine
15 years, to show something for our efforts.

16 I think below the surface is should we get
17 reauthorized and should the world turn in our favor,
18 it would be lovely to begin to think about a broader
19 application of comparative effectiveness research in
20 its broadest application.

21 DR. SELBY: I would say, Sharon, most of
22 you will remember we had lengthy discussions about

1 that, and it was reflected in the mission statement,
2 where we say PCORI helps people. That word was
3 underscored early in the statement as the broader
4 context that you are describing now.

5 Harlan?

6 DR. KRUMHOLZ: Harlan Krumholz. It's good
7 to see you guys, and we are sorry you left the
8 Board.

9 I just want to say one thing, and I'm
10 curious about your reaction to this. I thought one
11 of our major accomplishments in the beginning was to
12 say we want to be distinguished by doing research
13 differently, and we wanted this perspective to be
14 integrated into everything we did, not to be an
15 extra, not to be extracurricular, but for the work
16 we did.

17 As I reflect on it now at this stage,
18 because I think we are at an important juncture with
19 those nine years that are coming up soon, we may not
20 have spent as much time on the comparative
21 effectiveness side.

22 Like I said, I'm really proud of the piece

1 that we did about the patient part, but maybe the
2 name also put us in a position where we didn't think
3 as intently about the comparative effectiveness side
4 and what the body of work would look like.

5 I say that now because you can hear from my
6 prior comments where I'm wondering whether the Board
7 should now -- phase one was really making sure we
8 went to the community, making the strong
9 relationships, integrating the processes into
10 everything that we did, making sure people were in
11 the study section, making sure we were listening to
12 priorities, really establishing that as a baseline,
13 influencing the country.

14 I would say we have changed the
15 conversation about research, even as you look to
16 what Francis has done with PMI, that is very much a
17 reflection, I believe, of what was begun here with
18 regard to how people could play a central role with
19 the center of research.

20 I see it everywhere. I even believe the
21 real world evidence is in part a reflection on
22 talking about real people in everyday life.

1 I'm thinking about the need for us to
2 pivot, make sure we pay enough attention to creating
3 that body of work of the A/B comparison, the A/B/C
4 comparisons. No one is going to say you're just
5 like everyone else with the way we do it, but that
6 we need to do that.

7 I think the name -- if I think back to that
8 time, I just wish in a way I had thought more about
9 let's do it together, and we have a big body of work
10 that we funded, not to mention that, but wondering
11 whether or not we should pivot.

12 I wondered what your reaction is in
13 thinking about that.

14 DR. WASHINGTON: First, I want to remind
15 you, Harlan, you took a pretty strong position back
16 then, too, making the same point that you're making
17 today. Others will no doubt recall that. It was
18 appropriate.

19 I haven't followed as closely as obviously
20 members on the Board, but I think after six years,
21 it is probably the time to reflect on the balance,
22 and what the allocation of resources should be going

1 forward, that builds optimally on what has already
2 been established.

3 DR. KRUMHOLZ: I do take full
4 responsibility. That's why I said as I reflect on
5 myself, this is a great Board, the staff is doing a
6 great job. I'm just saying where we are now, I just
7 want to make that clear.

8 I was 1,000 percent and I'm still 1,000
9 percent in on the idea of people being at the
10 center, no question, I'm not wavering one bit.

11 MR. LIPSTEIN: What I would add is when we
12 came together, not only did we have to set up all
13 the infrastructure around PCORI, but we had no what
14 you would traditionally think of as Board by-laws or
15 committee structure.

16 After our first two meetings, when we
17 listened to all the input from 21 unique voices on
18 our Board, we came up with two committees. One was
19 the program committee or the program development
20 committee, which is really going to focus on the
21 research agenda and the research priorities. Rick,
22 I think you chaired that committee in the beginning.

1 You were a lot younger back then. Sharon, I believe
2 you chaired the first version of the engagement
3 committee.

4 Those were the two things that came out.
5 We wanted to do research but, Harlan, when we talked
6 about doing research differently, it was always
7 about engaging patients, and not only in developing
8 the research questions but getting them to be more
9 engaged in the study methodology, and importantly,
10 being a part of understanding the results and
11 disseminating the findings.

12 We set up those two committees, and then we
13 had a third committee, which was finance and
14 administration, because we still didn't have a
15 payroll, budget, lawyer, or anything like that.

16 That was the evolution for about the first
17 two years of our committees. Then you may remember
18 we added a committee after two years called the
19 research transformation committee. I think Freda,
20 you chaired that, or you used to -- still do.

21 That was part of that, we were pivoting at
22 that time a little bit, Harlan. Now that we have

1 our priorities and our agenda, and we have focused
2 on engagement, how do we really do research
3 differently?

4 Out of that research transformation
5 discussion came PCORnet, which was a big topic of
6 discussion, Gene, this morning. Then as part of
7 that transformation journey, the Board had gotten
8 more and more comfortable with doing what they
9 called "large pragmatic studies." I always thought
10 everything we were doing was pragmatic, but I was a
11 non-scientist at the time.

12 One of the real things that helped me grow
13 on this Board, by the way, was after I stepped out
14 of my role as vice chair, I convinced Kerry and Gray
15 to appoint me to the science oversight committee.
16 That was very educational for me, because I had
17 never been -- a non-physician, non-scientist to be
18 put on the science oversight committee, just to hear
19 the dialogue and to understand the issues was
20 really, really helpful for me.

21 It also reflected that continuing journey
22 to where Harlan is making his point, which is we

1 have to get more comfortable now with targeted
2 studies that answer specific questions, is this
3 better for me or is that better for me.

4 DR. SELBY: We have a lot more questions
5 from the audience. Ellen?

6 DR. SIGAL: I'm going to be brief, but I
7 just want to take my brief time to thank both of
8 you, because the extraordinary work that came on us
9 was just incomprehensible. I don't think anybody
10 knows what it was like in those early days, no bank
11 accounts. There are funny stories about even how we
12 could get a bank account.

13 It was a full-time job. It was consuming.
14 Great thanks to both of you for doing what you did
15 to set us up and work 24/7. You should be very
16 proud. We have come a long way, and we could not
17 have done it without your leadership, time, and
18 commitment. So, great thanks.

19 [Applause.]

20 DR. SELBY: We have Ms. Sue Sheridan in the
21 audience with a question.

22 MS. SHERIDAN: I want to share that for the

1 past almost five years I have been very proud to
2 share the PCORI mission with probably hundreds of
3 audiences. I'd like to say the mandate didn't
4 require that patients and caregivers and other
5 stakeholders are engaged in our research, but this
6 Board took PCORI to the next level, and I think
7 actually ended up with a very courageous mission.

8 I want to invite you to share with us how
9 did the Board actually come up with that mission?

10 DR. WASHINGTON: Who was on board for the
11 mission statement? I saw Harlan Weisman here
12 earlier.

13 SPEAKER: He's right next to you.

14 [Laughter.]

15 DR. WASHINGTON: Now you can see why we
16 called it the old timers session. Harlan was very
17 involved. We set up a task force, a team, to
18 actually write the mission statement. You will
19 recall this. Harlan will remember that every word
20 was selected very, very carefully.

21 We had a group of people on the Board who
22 really felt until we could articulate our mission

1 and write it down and get everybody to say this is
2 what we are about, that it would be hard for 21
3 unique people -- sometimes they refer to this Board
4 as a stakeholder board, but that is not really --
5 there is no recognition of the term "stakeholder" in
6 the statute.

7 What really you had was 21 very, very
8 smart, caring, intelligent people who all think
9 about what PCORI could do and how much benefit it
10 could provide a little bit differently, which is why
11 there are 21 voices, and getting them altogether on
12 the same page, Sue, was really important.

13 Harlan and I spent time on the phone
14 together taking out this word and recommending that
15 we add another word, all trying to get 21 people to
16 say okay to this.

17 MR. LIPSTEIN: I certainly remember that.
18 We did two things. One was the mission, who are we.
19 The other thing was the vision, where are we going.
20 What is that destination. I thought both of those
21 were really important.

22 The other thing I would say, you have

1 brought it up a couple of times, we were 21 very
2 different individuals, unique individuals, but we
3 represented multiple stakeholders. I remember in
4 the early meetings, Freda, Rick, and I decided as
5 the industry people, we better lay low, and I think
6 Ellen reinforced that, keep it down.

7 [Laughter.]

8 MR. LIPSTEIN: One of the problems with
9 health care in the United States, certainly even
10 more so back then was the fragmentation. You have
11 all the multiple stakeholders in the room, and there
12 was a lot of finger pointing, not on the Board, but
13 among various stakeholders.

14 I think what really happened is this Board
15 gelled. We found out that despite our various
16 perspectives and maybe viewpoints about what needed
17 to be done, we shared in common the idea that one,
18 patients were at the center, and that we wanted to
19 have an important role in improving the health of
20 Americans, and helping them make their decisions.
21 That really unified us.

22 That debate around mission vision, which

1 seemed to go on endlessly, and wordsmithing, I think
2 was one of the fulcrums of helping us unify together
3 and really serve as a model for the nation and the
4 idea that you could take all the various
5 stakeholders involved in health care, put them
6 together, and put them around a common goal to come
7 up with really important solutions.

8 DR. SELBY: There is a question from Lori
9 Frank, which is similar to what Steve just
10 addressed. Ms. Frank?

11 DR. FRANK: Hi, Lori Frank from Kensington,
12 Maryland, and I am here today as Dr. Frank Einstein.
13 I would like to thank you for your service to PCORI,
14 and I do want to follow up on the multiple
15 stakeholders on the Board.

16 What was your view of the legislative
17 intent there, and do you think that intent has been
18 realized?

19 DR. WASHINGTON: I would comment first on
20 that and say yes, I think it has been realized. I
21 interpret it as ensuring that in fact it truly was a
22 multidisciplinary group of stakeholders from diverse

1 backgrounds and diverse perspectives, and range of
2 experiences being brought to bear on the questions
3 at hand, which were about how do we produce
4 information that is useful for patients.

5 I think the PCORI Board as a group serves
6 as an exemplar, that it really can be done, and it
7 can be done at a national level. To the person, and
8 Harlan just touched upon it, I felt that each
9 individual stayed focused on the higher aim of
10 PCORI, which was to use these resources as
11 effectively as possible in order to improve health
12 care delivery and improve health outcomes.

13 As a Texan, we use the expression "Check
14 your guns at the door." I always worked with the
15 assumption that each member in fact did that, when
16 they came to the table, they came to the table as a
17 Board of Governors of PCORI. Yes, perspective was
18 there, but there was not one single member that I
19 recall on any occasion dug in deeply over
20 representation of some constituency or some
21 stakeholder, and I've seen that continued the last
22 six years.

1 I think intent was right on target, and I
2 certainly think the Board of Governors have lived up
3 to the promise of bringing this kind of diverse
4 group together.

5 MR. LIPSTEIN: I just looked at that
6 language because it is always helpful for me to
7 remember. It says I was appointed to the Board as a
8 representative of a hospital. I certainly never
9 came to Board meetings feeling like I represented
10 all 5,000 hospitals, big and small, teaching and
11 non-teaching, urban or rural, pediatric or adult, in
12 every state of the Union any more than Kerry, you
13 felt like you represented every single insurance
14 plan in America.

15 What I think we tried to do was use our
16 different lens to say okay, what are the issues that
17 are most important to patients or to beneficiaries
18 or to patients in our particular disciplines, what
19 would be most important to those patients.

20 I think as some of you know, my office back
21 at BJC is in the same building with the resident
22 clinics. I wanted to be there because it gave me a

1 chance to actually see and engage with patients
2 every day in a way that non-clinicians get to do,
3 which is usually providing directions or giving
4 assistance at the elevator, but these are also the
5 patients who are the most vulnerable in our
6 community because many of them don't have insurance
7 and many of them don't really easily know how to
8 navigate the health care system.

9 One of the lens I tried to bring to my
10 service on the Board was not just any typical
11 patient, but patients who really were living in
12 poverty and under difficult life circumstances.
13 Some people brought to the Board the lens of
14 patients who were suffering from cancer, or
15 cardiovascular disease, or mental illness.

16 Realizing that there is a huge diversity of
17 patients and patient issues, patient questions,
18 patient problems, I reviewed the stakeholder nature
19 of the Board to try to be inclusive of all those
20 different patient perspectives.

21 DR. SELBY: Does anyone else on the Board
22 want to comment on this question? Dr. Zwolak?

1 DR. ZWOLAK: Thank you. I'd just like to
2 follow up on what Steve mentioned and ask a
3 question. In the early days, we met in Los Angeles,
4 we met in St. Louis, we saw all sorts of people,
5 patients, patient groups in St. Louis. We went to
6 New Orleans and went to indigent clinics and heard
7 some incredible stories about the care provided in
8 New Orleans. We went to Jacksonville, I think, and
9 stayed at the worse hotel there ever was.

10 [Laughter.]

11 DR. ZWOLAK: We heard important stories.
12 We really engaged people. We engaged all sorts of
13 people, all the ranges. Now we have become sort of
14 very bureaucratic. We sit here, we meet in
15 Washington. We rarely get a public comment. We
16 have gone quite to the other extreme.

17 Is that just a process of our evolution,
18 was one right and the other wrong, or is this just
19 how things should flow? From the perspective of
20 someone who has watched us, both of you, from
21 legislation to today, were we right then and strayed
22 too far away now, or are we doing things right?

1 MR. LIPSTEIN: I'll start and then let Gene
2 go. I think what we were doing back then, we were
3 trying new things. We were trying to figure out,
4 okay, we gave staff the opportunity to help us
5 figure out ways to engage people differently. We
6 were just finding our way at that point.

7 As you know, we were in different cities
8 around the country, and we wanted to just invite
9 various patient populations or various patient
10 advocacy groups to share with us their lens on what
11 were the most important issues affecting patients.

12 I used to share with Gene on our daily
13 phone conversations that one of my big concerns was
14 that I viewed patient advocacy differently than
15 patient engagement. When we would have normal
16 meetings like this, the people that would come to
17 the microphone were coming with prepared statements,
18 written by either the disease association that had
19 sent them, and the example, you may remember I gave
20 you was -- Rick Kronick shared this -- we both were
21 supporters of the National MS Society, which is a
22 patient advocacy group. Both of our wives had MS.

1 We know patient engagement and patient advocacy are
2 two different things.

3 What we were trying to figure out is how do
4 we get past the advocacy groups who were lining the
5 walls of our early Board meetings to touch real
6 patients with real medical conditions and problems.

7 That's what we tried to do, and that is
8 what I think Sue Sheridan's world has -- I can't see
9 her now, she is behind the camera -- I think that is
10 what your world has become all about.

11 It turns out there are probably more
12 sophisticated and efficient ways to reach real
13 patients than what we were trying to do back then,
14 but it's no less important.

15 DR. WASHINGTON: Bob, I think at the time,
16 we were weighing a couple of tradeoffs. One
17 tradeoff was the desire to have that submergence
18 experience up close, personal, and the cost, the
19 cost in terms of resources, but also time. Having
20 said that, I share the bias that there is no
21 substitute for that on occasion.

22 If you're telling me you meet in

1 Washington, which is the case all the time, I would
2 say I would as a Board of Governors would be pushing
3 you to get out every now and then, whether it's once
4 a year or once every two years, whether it's an
5 annual meeting at some site that gets you away from
6 Washington. I would be encouraging that.

7 DR. SELBY: Sharon Levine.

8 DR. LEVINE: Just to give a broader
9 perspective on this, we recently had a face to face
10 meeting, all day meeting with the engagement
11 dissemination -- I forget the rest -- implementation
12 committee, EDIC, and heard a phenomenal presentation
13 over a period of six hours of the degree to which
14 PCORI was touching the lives of real people in real
15 communities.

16 The staff has done an extraordinary job of
17 extending our reach into the community. I think in
18 the beginning all we had was us. That was our only
19 mechanism of engaging with people and trying to get,
20 as Steve said, beyond advocacy to engagement.

21 I came away from this last meeting really
22 totally wowed by the degree to which the staff, Jean

1 and her team, have just touched the lives of
2 hundreds and hundreds of real people, real patients,
3 and real communities, by taking PCORI to where these
4 folks are.

5 I think we said at the end of the day it
6 would be lovely for the Board to hear actually what
7 we heard because I think it was a marvelous story
8 and very affirming that we have in fact on this
9 dimension of our mission and our charter really
10 lived up to what we could do.

11 MR. LIPSTEIN: First, I'd say those early
12 trips were other places, too, like New York and
13 Seattle, and were some of the most meaningful -- I
14 had some of the most meaningful conversations and
15 participated in some of the most meaningful
16 discussions with the multiple stakeholders, and
17 really got a glimpse of what health care is really
18 like.

19 I learned that I live a very insular life,
20 and through the various things I've done in my life,
21 I've always had instruments, because I'm a
22 physician, I know how to pick good physicians.

1 Really hearing from people -- you know, we used the
2 term "real world" earlier. Seeing real world in the
3 United States really shattered a lot of things that
4 I thought were true that are not true, and it was
5 very important.

6 I think what you just said about the fact
7 that we have people who do that now. It is part of
8 the evolution. When we started, we were the
9 organization. That's all there was. Now we have a
10 real institute and real professional people who go
11 out and engage all the time.

12 My answer to Bob is I think it was part of
13 the natural progression and evolution, but I do
14 agree with Gene. It is very healthy to get out
15 there and see what is really going on.

16 DR. SELBY: Andrew Bindman?

17 DR. BINDMAN: Hi. This is great for me
18 because I wasn't here in the beginning. I came
19 after the original seven days of creation.

20 [Laughter.]

21 SPEAKER: It took longer.

22 DR. BINDMAN: Okay. Steve, I was struck by

1 some of your opening comments about we are supposed
2 to be separate from government, but then the first
3 two Board members are from government, so I'm one of
4 those representatives now.

5 Has that reflected some ongoing
6 ambivalence, you think, that there is about PCORI
7 and its relationship? I guess I'm particularly
8 interested in any of the discussions you all had in
9 the beginning about how PCORI should engage with
10 government partners.

11 There is, as you know, in the legislation
12 some comments about thinking about relationship
13 roles with NIH and AHRQ. I wonder if you could
14 enlighten me a little bit about some of the
15 discussions that were had about how to use that
16 relationship and any reflections you would have
17 about how that relationship has evolved vis-à-vis
18 execution of the work, staffing, and things like
19 that.

20 MR. LIPSTEIN: It's a great question, Andy.
21 One of Gene's early suggestions for how to help us
22 understand that was for us to go visit with the

1 people who wrote the legislation, and then what we
2 found out is there were more people who wrote the
3 legislation that was actually humanly possible. We
4 visited with both House and Senate leadership on
5 both the Democratic side and Republican side.

6 What I think we walked away with was
7 realizing that the legislation, if it was confusing
8 or conflicting about the relationship between PCORI
9 and government, it was because there wasn't
10 agreement inside the government at the time the
11 legislation was actually written.

12 There were some people who thought \$3
13 billion over 10 years should reside within AHRQ.
14 There were others who thought it should reside
15 within NIH. There were others that thought
16 independent from government meant not independent
17 from the Senate but independent from the House.

18 I walked out of there -- I remember, I said
19 to Gene and other members, is this how government
20 really works. He looked at me and he just kind of
21 smiled, you know, that wise smile he has, and we
22 realized -- at the time, Caroline Clancy was filling

1 the Board seat you are in, Francis was still in his
2 seat.

3 We just forged that working relationship
4 the way it felt comfortable with the Board and
5 comfortable with them, knowing that in this town,
6 biomedical research, health services research,
7 exists within a sociopolitical economic construct,
8 and navigating that construct is not always easy.
9 It is very complicated.

10 We have had both Francis' wisdom and now
11 your wisdom, and Bob Jesse along the way
12 representing the VA, that really helped us to
13 navigate those relationships. I think we ended up
14 in a good place.

15 We clearly didn't get clear direction from
16 either the statute or from the people we visited on
17 the Hill.

18 DR. WASHINGTON: I remember one Board
19 meeting where Christine had written public funding
20 announcements for the pilot projects. We had no way
21 on earth that we actually were going to be able to
22 go through those and be able to figure out which

1 ones we should grant, we should fund.

2 Francis Collins said, and I remember these
3 words, "I'll be the plumber." That is one of the
4 first relationships we built.

5 DR. SELBY: Bob Jesse.

6 DR. JESSE: Bob Jesse, Board. I wanted to
7 reflect on what Harlan and Steve had said about our
8 early visits in the communities. The thing that
9 struck me most about that was irrespective of the
10 disease people had or their station in life, the one
11 common thing everybody wanted from the health system
12 was respect.

13 I think our presence with them showed that
14 we as a new organization actually respected them.
15 We had a couple of social faux pas in there, I
16 think. We learned a lot. We all learned a lot. I
17 think that lesson really is foundational to
18 everything that has happened in PCORI since.

19 Whoever's brilliant idea it was back in
20 those days to have those meetings, I think it was a
21 very positive investment but one whose value is not
22 easily understood by those who weren't there.

1 DR. SELBY: We will move on to the next
2 question. Mr. Andrew Hoo.

3 MR. HOO: Before I jump to my question, I
4 just wanted to apologize on behalf of those of the
5 folks who wrote the authorizing statute for all the
6 confusion and all the errors in the language.

7 My question is more about some of the key
8 pressures you guys faced at the outset, from the
9 various stakeholders and from Congress. I'm sure
10 some of those were conflicting in more of the
11 decisions and choices you guys made to address
12 those.

13 DR. WASHINGTON: Where do we start? There
14 were pressures all around. This sounds like boring
15 stuff because it is, but I want to give it some
16 context.

17 At the time when we were trying to launch
18 PCORI, we already heard it was whole cloth, no clear
19 roadmap, somewhat not confusing but not very clear
20 in terms of direction from the legislation.
21 Widespread opposition to the actual passing of the
22 legislation. Major budget crises in Congress, and

1 an attempt very early on, deliberate, to derail all
2 the efforts to launch PCORI.

3 Some of you remember at our early meetings,
4 we had guards at the door. When I would get up to
5 go to the restroom, the guard would go with me. He
6 had been cued by the security company that people
7 were not to get to me. It paints a very different
8 picture from the setting we are in now, but that is
9 how the moment was, I mean more broadly.

10 Our first success was just to avoid lift
11 off failure, because so many forces were aligned to
12 really achieve that particular objective.
13 Fortunately, there were the forces aligned to help
14 us with that lift off. That certainly included the
15 Board to begin with.

16 Ellen, the same way you recognized me and
17 Steve, I really want to recognize each one of the
18 Board members who were involved in those early days
19 because each Board member worked as hard as Steve
20 and I, you know, relatively speaking, and given that
21 they weren't in a leadership position, and we always
22 knew we could call on them seven days a week, and we

1 did often call on them seven days a week, and there
2 was always a response.

3 As Steve said, there was no staff. The
4 Board was the staff for literally the first year.
5 They would joke saying, you know, when I got that
6 call, they didn't tell me that I was going to be in
7 this deep and this busy, committing this number of
8 hours, but no one complained and everyone delivered.

9 That was the tension just to get it off the
10 ground. From the beginning, people wanted
11 victories. On one hand, they wanted to thwart any
12 effort to launch it, and at the same time wanted
13 victories within the first two or three months.
14 When we would go, as Steve said, to Congress or we
15 would go to different constituencies, they wanted to
16 know when is the first recommendation going to come
17 out. Others wanted data. Others wanted funding
18 even before we had mechanisms.

19 There was real pressure early on to have
20 some victory. Talk about pressure and tension,
21 early on, there was pressure around whether or not
22 we would include costs. I suspect some of that

1 still is. There was a large kind of cross section
2 of individuals and groups that felt PCORI couldn't
3 be successful, despite the mandate we had being
4 relatively clear unless we took on costs in some
5 meaningful kind of way.

6 Attempting to respond to those concerns and
7 the criticism while were also moving forward to
8 focus on patients and on the research and outcomes
9 created its own kind of pressure and tension.

10 Andy, back to your question. I wouldn't
11 call it a tension, but we had open discussions about
12 the role of AHRQ and NIH and PCORI relative to
13 PCORI's independence. As Steve said, we would hear
14 very clearly don't waste any dollars, we want you to
15 also demonstrate that you are just not another AHRQ
16 or another NIH. That was pressure for us to create
17 the right balance.

18 I would concur with Steve, and the same way
19 Francis stepped up, Caroline stepped up, Gene worked
20 with Caroline in those days, and I felt like the
21 evolution was timely and was effective.

22 There was that tension there and pressure.

1 I felt like we got that right as well. There has
2 always been not the pressure but the tension that
3 Harlan alluded to about how much emphasis we put on
4 research versus how much we put on patient
5 engagement, which will always be there.

6 There has always been that tension about
7 how much research we do related to more of the
8 observational end versus experimental. Those
9 pressures were there then and those pressures
10 continue to be there today.

11 Finally, just related to the research,
12 there was pressure to make the big bet versus being
13 more incremental. Many of you will remember those
14 discussions. What was the term we used to use?

15 SPEAKER: Big rocks.

16 DR. WASINGTON: That's right. Move the big
17 rocks. Did that come from you, Harlan? I thought
18 it did. We were going to move the big rocks. In
19 some regards, PCORnet certainly represents a big bet
20 from my vantage point that is paying off with real
21 potential for even more significant contributions.

22 Those are just some of the tensions that

1 were bubbling beneath as well as above the surface.

2 MR. LIPSTEIN: In the first nine months,
3 there were two big tensions that Gene just
4 characterized. I'll summarize kind of what he said
5 and replay the pressure. Christine Goertz will
6 remember the words "get the money out the door." It
7 was because we were deep in recession, there were
8 people around this Board table that wanted us to get
9 the money out the door.

10 There was another really important group in
11 the PCORI mix that didn't get on board until March
12 of 2011, which was the Methodology Committee. They
13 will remember they met in the living room of my home
14 in St. Louis. That's when we learned Steve Goldman
15 could sing, by the way.

16 Until we had the scientific vigor and the
17 methodological standards, there were other Board
18 members who just didn't feel comfortable pushing all
19 that money out the door.

20 The second thing where we clearly felt
21 pressure on was to get a staff. When Joe almost
22 withdrew from the candidate pool, I was calling Gene

1 crying and saying Gene, you have to get him back in
2 the pool because he's everybody's first choice, and
3 we have to get him back in the pool. That is when
4 the famous call came. Joe, our country needs you.

5 DR. SELBY: I'd add a third, and that was a
6 Supreme Court case.

7 MR. LIPSTEIN: That wasn't until 2012, and
8 what happened in 2012, you will remember, we were
9 worried that we wouldn't be able to get out money
10 out of the United States Treasury into the PCORI
11 Trust Fund, and we had already hired staff at that
12 point. Yes, we did make a decision to make an early
13 withdrawal from the Treasury into the Trust Fund.

14 When the law turned out to be
15 constitutional, we tried to put the money back into
16 the Treasury, and that was not as easy to do as the
17 other way around.

18 DR. SELBY: Alicia Fernandez.

19 DR. FERNANDEZ: Thank you. I have a
20 question for Gene. I only came onto the Board after
21 Gene left, but I know Gene because when I was an
22 intern early on in my life, I think Gene was one of

1 the foremost faculty at UCSF, and among his many
2 talents was he was extremely committed to
3 disparities research and to equity.

4 My question centers on that. PCORI has
5 done a lot in terms of addressing the disparities
6 portfolio and has an active portfolio of research.
7 Nonetheless, many of the big issues that trouble the
8 health of vulnerable people in the United States
9 need to be addressed with research, but always fall
10 into a comparative effectiveness model of comparing
11 therapeutic A versus therapeutic B.

12 I guess as you stepped away from PCORI and
13 had a chance to reflect over the last few years,
14 what have you thought looking back in terms of
15 PCORI's contribution around equity and health, and
16 more importantly, any thoughts you might have around
17 going forward in how PCORI can contribute even more
18 in that area?

19 DR. SELBY: Gene, before you answer, let me
20 just say that we have just about run out of time. I
21 think this will be the last comment from you and
22 from Steve. Let me invite you as you answer

1 Alicia's question to also just any closing thoughts
2 you want to leave with the Board for prosperity.

3 DR. WASHINGTON: Alicia, I reflect on those
4 visits we made, and particularly in New Orleans.
5 Some of you remember, we went into the heart of New
6 Orleans. We felt like we had kind of touched to
7 some degree the soul of the problem, at least I did.
8 I still remember those days.

9 What I learned from that and how to respond
10 to your question, to the degree that we really -- I
11 believe we are changing the conversation, we are
12 cracking the code around research being more from
13 the patient perspective, then I think we are helping
14 to address some of the disparities.

15 The individuals who have the most difficult
16 time in the health care system are the vulnerable
17 population. Those are the ones who don't understand
18 the material. Those are the ones where the families
19 are not included or don't feel like the decisions
20 that are being made necessarily reflect their
21 values.

22 To the degree we are getting the research

1 more from that perspective, I think we are
2 contributing to improving that problem. I think we
3 should continue to do that. Again, whether it is in
4 the realm of more observational studies or whether
5 it is in the realm of experiments.

6 What I would leave in closing as I thought
7 about where PCORI is now, and that is even before I
8 heard the discussion this morning about balance
9 between RCTs and observational studies, I heard a
10 little bit about PCORI in the update this morning,
11 and I think PCORI is very similar to what I was
12 saying with so many other big projects around the
13 country that is amassing just mounds and mounds of
14 data, and what I don't see right now is big, big
15 projects really analyzing it in a way that is being
16 used to really change care, and eventually improve
17 health.

18 I see that the next big push, and PCORI can
19 play a role in that, is ensuring whatever kind of
20 analytical studies or evaluations, there is better
21 use of all the data that is being created, not just
22 for research but actually for improving care and

1 improving health.

2 MR. LIPSTEIN: My two parting thoughts.
3 One would be, you know, I have spent a fair amount
4 of time the last year back home in St. Louis trying
5 to think about how we improve the odds for segments
6 of the people who live in our community, a lot of
7 which has come about as a result of what you all
8 read in the newspaper related to Ferguson.

9 In my PCORI experience, I think that the
10 purpose of this institute is really to improve the
11 odds that people in our country will get to a better
12 health outcome. Some of that does involve equity.
13 Some of it does involve head to head comparative
14 analysis of two different therapeutic options.

15 Just keeping in mind how do you improve the
16 odds of improving patient outcomes, and not
17 everybody has equal odds at the get-go. That is
18 kind of take home message number one.

19 Take home message number two, I spent the
20 last year of my PCORI service on Dr. Zwolak's work
21 group called Application Enhancement Work Group.
22 One of the mysteries for me as a member of this

1 Board was always why the questions we were asking,
2 that we thought were the most important questions in
3 America, weren't coming across in response to our
4 broad application solicitations.

5 Harlan and I used to tease each other back
6 and forth on Tamiflu. I always wondered why were we
7 getting five research grant requests to study
8 Tamiflu. We were sitting in our Board meeting. Bob
9 and I went through this, and I think, Vic, you were
10 on that work group, too, we went through this
11 process and staff really helped us, and I kept
12 thinking why aren't we getting the kinds of
13 applications we want.

14 We kept thinking what are we doing wrong.
15 Then I wondered, maybe there isn't as much demand
16 for answering the questions that we are asking as we
17 thought there was. I think that is something the
18 Board needs to take on as it looks to the future,
19 which is there is a disconnect between the top
20 research questions that we think need to be asked
21 and answered, and what will come from the research
22 community in response to our RFPs.

1 Good luck.

2 DR. SELBY: Well, I want to thank both of
3 our candidates --

4 MR. LIPSTEIN: Joe, can I have the last
5 word?

6 DR. SELBY: You certainly may.

7 MR. LIPSTEIN: Everyone involved in PCORI,
8 Board of Governors, the staff, the Methodology
9 Committee, should be proud.

10 DR. SELBY: Thank you both.

11 [Applause.]

12 [Whereupon, at 12:37 p.m. a luncheon
13 recess was taken.]

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A F T E R N O O N S E S S I O N

[1:01 p.m.]

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2
3 DR. NORQUIST: We're going to get started.
4 For those of you on the phone, we are back now.
5 Larry Becker will introduce our next session.

6 MR. BECKER: Thank you very much. Ted, are
7 you on the phone?

8 MR. CHEATHAM: I am here.

9 MR. BECKER: All right. Thank you very
10 much. We have three individuals who are experts in
11 their field. Thank you for coming today and
12 spending the time. I know you flew in from New
13 Hampshire to be with us at the last minute, so thank
14 you for doing that. Ted is in West Virginia.
15 James, thank you very much for being here.

16 Let me just give you some brief comments
17 about each of the individuals. Ted is from the West
18 Virginia Public Employees Insurance Agency. He's
19 launched HMOs in Los Angeles and Mississippi. He's
20 been involved with acquisitions and mergers in West
21 Virginia. He's a former CEO of several commercial
22 health plans. That is his background.

1 Kathryn is with the American Benefits
2 Council. She is a senior counsel there. It
3 represents Fortune 500 companies and 100 million
4 Americans. She is involved with assisting members
5 like Xerox Corporation with health policy, health
6 care reform, regulations affecting plan sponsors.

7 James Gelfand is with ERISA Industry
8 Committee, Senior Vice President there. He has done
9 a lot throughout his career prior to coming there in
10 April. He worked at the U.S. Chamber for a time
11 where I met James. He was also counsel to Tom
12 Coburn and Olympia Snowe before that.

13 I think we will get started. Jim, do you
14 want to kick it off?

15 MR. GELFAND: Members of PCORI Board of
16 Governors, thank you for this opportunity to present
17 on behalf of the ERISA Industry Committee, or ERIC,
18 for short. ERIC is a non-profit organization
19 representing the nation's largest employers that
20 maintain health care, retirement, and other employee
21 benefit plans covered by the Employee Retirement
22 Income Security Act of 1974, ERISA.

1 ERIC is the only national association that
2 advocates exclusively for large employers on health,
3 retirement, and compensation public policies at the
4 Federal, state, and local level. ERIC enhances the
5 ability of its member companies to provide high
6 quality health care benefits to millions of active
7 and retired employees as well as their families.

8 These benefits help ERIC members to attract
9 and retain talent and maintain a healthy and
10 productive workforce. Each ERIC member must have at
11 least 10,000 employees. Many have 100,000 or even a
12 million. Plus, the number of covered lives under
13 each of their benefit plans is usually much, much
14 higher, as you take their families into account.

15 ERIC's members, which sponsors the absolute
16 largest private group health plans in the country,
17 are committed to and known for providing high
18 quality, affordable health care. Our members expend
19 considerable resources to maintain insurance plans
20 that cover many disparate populations.

21 These plans provide health care to millions
22 of workers, retirees, and their families with the

1 highest standards of quality, cost containment, and
2 effectiveness.

3 As you can imagine, ERIC's member companies
4 have long been on the cutting edge of innovation in
5 the health care space. It was large employers who
6 first took a chance investing in care coordination
7 creating incentive programs for employees to get and
8 stay healthy, and steering plan beneficiaries to
9 centers of excellence, where they would receive the
10 best, most efficient, and most effective care.

11 ERIC's members voluntarily made investments
12 in health information technology long before the
13 Federal Government was involved. Even now, ERIC
14 members are constructing accountable care
15 organizations that are more advanced than those
16 envisioned for the Medicare population in the
17 Affordable Care Act.

18 We could discuss this until I'm blue in the
19 face, but the point I'm trying to make is that
20 ERIC's member companies have taken an extremely
21 proactive approach to managing and improving the
22 health of tens of millions of people for whom we

1 provide health insurance.

2 There is a myriad of reasons for our
3 interest in the health and well-being of our
4 employees, from simply caring about the people who
5 we work with, to encouraging better productivity and
6 discouraging absenteeism, to giving workers the
7 peace of mind they need to focus and maintain a
8 positive outlook.

9 Employers have a stake in employee health,
10 but that is not all. ERIC's member companies are
11 all self-insured. That is to say when an employee
12 goes to an emergency room, it's not the insurance
13 company that pays the employee's bill.

14 Sure, we have an insurance company that
15 acts as a third party administrator. They set up
16 provider networks. They do the paperwork. They
17 negotiate rates. Ultimately, it's the employer that
18 pays the bills.

19 Employee health for ERIC members is more
20 than simply a matter of goodwill and productivity.
21 It is a bottom line imperative. This is a good lead
22 up to comparative effectiveness research. ERIC,

1 along with many of our most active and vocal member
2 companies, as well as our friends and colleagues in
3 the employer trade association community, have a
4 long history of supporting comparative effectiveness
5 research, besides the general transparency and
6 health care position, we also have a more immediate
7 need.

8 You see, large employers are increasingly
9 offering consumer driven health plans in which
10 employees bear a greater responsibility for choosing
11 providers, care regimen, medications, and other
12 health services. Employees need access to robust
13 data in order to make informed decisions.

14 Comparative effectiveness data is high on
15 our ranking of what's needed to meaningfully
16 differentiate between care options.

17 When the Affordable Care Act was being
18 negotiated, employers had a great interest in the
19 creation of a body to conduct comparative
20 effectiveness research, by requiring all payers to
21 contribute, we could eliminate the free rider
22 problem and build a centralized clearinghouse to

1 serve this critical need.

2 However, since the ACA's passage, a number
3 of new questions have been raised about what our
4 investment has yielded thus far, and that will be my
5 focus in these remarks.

6 First, on PCORI's work. Major employers
7 had one chief goal in funding comparative
8 effectiveness research, and that was obtaining
9 information that would be directly actionable in
10 designing health insurance benefits, where it would
11 help avoid unnecessary care, promote best practices,
12 or design networks and formularies that steer plan
13 beneficiaries to optimal care.

14 Unfortunately, much of PCORI's publications
15 have not been optimized for this use. Research with
16 a focus on public health is also not optimized for
17 use in design of employer sponsored insurance
18 benefits.

19 Employers need information on the best care
20 settings, the most appropriate treatments, the most
21 effective prescription drugs. We need to know which
22 treatments are likely to result not just in the best

1 health outcome but the least recovery time needed,
2 the best restoration or maintenance of cognitive
3 abilities to improve productivity, and the like.

4 We need information on both the direct and
5 indirect burdens of disease, as well as what happens
6 in patients with proper treatment. Undoubtedly,
7 much of PCORI's work has touched on this, but in the
8 eyes of the employer community, this is the gold
9 standard. This is what we need in the realm of
10 comparative effectiveness research.

11 I've also heard concerns from member
12 companies regarding the populations on which PCORI's
13 work is focused. Remember that employers' target
14 population is primarily working families. That
15 means that focusing on Medicare patients just
16 doesn't really apply to us.

17 Issues like knee and hip replacement,
18 Shingles, the interests of geriatricians, not that
19 this work isn't valuable, we recognize the value,
20 the problem is it doesn't generally coincide with
21 the tens of millions or hundreds of millions of
22 people who we provide benefits to.

1 Likewise, we know that PCORI does work of
2 value that may not be directly relevant to employers
3 or clinicians, such as, for instance, the best way
4 to communicate with the hard to reach
5 subpopulations, but because this work is not
6 directly relevant to plan sponsors, they view
7 PCORI's involvement with this as a missed
8 opportunity with very limited resources.

9 I'd also like to mention that PCORI's work
10 would be more meaningful if it was integrated at the
11 point of care. Comparative effectiveness research
12 needs to be included with live updates, clinical
13 decision support tools, e-prescribing programs,
14 electronic medical records.

15 In the 21st century, we cannot depend upon
16 providers, plan sponsors, and patients to go to your
17 Web site.

18 A little bit on PCORI's structure. None of
19 this is meant to take away from the good work that
20 PCORI does and has done. Employers are sensitive to
21 the tens of millions of dollars provided, I believe
22 about half of the funding, but we know some of this

1 is due simply to the way the ACA is structured and
2 governs PCORI.

3 I'm sure none of you will be surprised to
4 hear that ERIC members want and need cost
5 effectiveness to be taken into account when
6 conducting comparative effectiveness research, while
7 we acknowledge that some patient groups have
8 concerns about this, it serves neither plan sponsors
9 nor patients to be kept in the dark. In fact,
10 patients often have at least as much and sometimes
11 more of a need to make informed decisions based on
12 the cost of treatments.

13 When the time comes to address the future
14 of comparative effectiveness research, I believe
15 there is a consensus in the payer and plan sponsor
16 community that cost effectiveness cannot be treated
17 the same way it was in 2010.

18 Another problem is the political difficulty
19 PCORI has in making certain tough calls on
20 pharmaceuticals. As a large multi-stakeholder trade
21 association, trust me, ERIC gets it. Being able to
22 make those tough calls, to say that in a given

1 scenario, drug X is better than drug Y, period, that
2 is the heart and soul of why we need comparative
3 effectiveness research.

4 This is what keeps not just plan sponsors
5 but also providers and especially patients up at
6 night. We need PCORI's focus here, and we need your
7 help. If changes are needed to make this possible,
8 we are committed to pursuing them.

9 It is also critical to us that PCORI's
10 hands not be tied. Whatever data is out there,
11 whether public or private, proprietary or publicly
12 funded, every bit of data must be at your disposal.
13 We will fight to make that a reality.

14 The money collected in relation to PCORI,
15 there remain serious questions as to whether such a
16 significant portion of it should be directed to
17 AHRQ, and whether they are spending that money
18 wisely.

19 We want to ensure that PCORI is able to
20 corroborate with other stakeholders to the greatest
21 degree possible, whether that means partnering with
22 specific research institutions or employer groups to

1 pursue issues of shared interest. We have to be
2 able to leverage non-PCORI funds for the purposes
3 that PCORI cares about.

4 I can't visit PCORI without mentioning that
5 the structure of PCORI's Board is of concern to
6 employers. Their members have expressed that there
7 should be greater plan sponsor representation on the
8 Board, and this in fact might help with some of the
9 other issues I mentioned.

10 While we have the utmost respect for
11 everyone here who sacrifices their time and their
12 efforts to work towards success of PCORI, the
13 current structure does not adequately represent the
14 interests of those who are funding much of the
15 institute's work.

16 In conclusion, nobody can say exactly what
17 the future holds in 2019, whether there is broad
18 agreement that comparative effectiveness research is
19 still sorely needed, there is less consensus today
20 on how that research should be conducted, obtained,
21 and disseminated. We have an additional three years
22 to observe and shape PCORI's work, and then it will

1 be time to reevaluate whether the current path is
2 the right one to achieve the shared goals of both
3 the proponents of health reform and the plan
4 sponsors who insure most Americans.

5 I thank the Board of Governors for inviting
6 me to participate in today's panel, and I look
7 forward both to today's dialogue and working with
8 all of you in the future to make sure that plan
9 sponsors, providers, and patients have the
10 information they need to make informed decisions.
11 Thank you.

12 MR. BECKER: Thank you, James. Kathryn?

13 MS. WILBER: Thank you. I'm Kathryn
14 Wilber. I am with the American Benefits Council
15 where I work on health policy, and I'm primarily
16 responsible for health regulations. Although I flew
17 in from New Hampshire, I actually am based here in
18 Washington. I happen to have been in Boston for
19 some family visits and came in this morning to talk
20 to you this afternoon from there.

21 I started my health care career 30 years
22 ago as a certified nurse midwife in the Boston area.

1 I practiced in Boston, and then decided to follow a
2 policy path rather than a clinician path.

3 I went to law school here in the area, and
4 then went to work with what is now America's Health
5 Insurance Plans, spent about a dozen years working
6 on a variety of issues there, including what we used
7 to call technology assessment, and then from there
8 moved to the American Benefits Council, where I have
9 been for about 10 years, working with large
10 employers, many of the same or similar types of
11 companies that James referred to.

12 They are sponsors of employee health
13 benefits programs that cover not only their
14 employees, active, but also retirees, and spouses
15 and dependents.

16 As mentioned, our plans are generally at
17 least 10,000 employees. We do have plans that are
18 covering a million covered lives. That is a big
19 investment or it will be seen that way, it is being
20 seen that way.

21 I'm giving you this background to sort of
22 explain why as personally and professionally I am a

1 champion of comparative effectiveness research. The
2 question, too, is why do employers self-insure, and
3 the reason typically for a larger employer is
4 because it gives them the flexibility to tailor the
5 benefit coverage to the needs of the workforce.

6 If you have a workforce that is in
7 manufacturing or in trucking, you might have to
8 focus on musculoskeletal issues, chronic disease,
9 those kinds of things, versus perhaps retail where
10 there is a younger population, maybe your concern
11 has more to do with maternity care and pediatric
12 issues.

13 You have a flexibility to do that when you
14 self-insure. You're not just pulling an insured
15 product off the shelf.

16 Under the ACA, which has taken up almost
17 all of our time since its enactment and its
18 implementation, as a large employer who self-insures
19 are not subject to the essential health benefits
20 package, which is what the insured market and the
21 qualified health plans are supposed to offer.

22 Again, flexibility. I think a recognition

1 by Congress that large employers could have that
2 room to continue to do what they do, to design and
3 implement their coverage, their benefits, and they
4 do use again, the insurers, the carriers, to
5 administer those benefits.

6 Again, I just wanted to make sure that we
7 were clear about where our perspective is coming
8 from.

9 Again, support for comparative
10 effectiveness research, you might remember, too,
11 that as part of the ACA, there was a transition
12 reinsurance program fee that created quite a lot of
13 controversy for employers. It was a contribution to
14 the whole risk reinsurance program. A lot of
15 opposition, I will tell you, among employers for
16 that fee.

17 We did not hear that for the PCORI fee.
18 Clearly, it's a little smaller, quite a bit smaller,
19 in fact, but I think that was a reflection of sort
20 of recognition there is value here that they weren't
21 seeing for the TRP fee.

22 Again, value of comparative effectiveness

1 research for a number of reasons. One, we want to
2 know what works and what doesn't work. This is
3 about quality. It's about preventing the
4 dissemination of treatments that don't work. I
5 think this audience knows that better than we do,
6 even what does that mean.

7 Once you start covering something, it is
8 awfully hard to pull that back, and if we don't have
9 strong evidence, it is worrisome.

10 I have also been working on mental health
11 parity issues with the Departments of Labor, HHS,
12 and Treasury. I spoke in a listening session to the
13 Parity Taskforce about two months ago, and one of
14 the articles that I cited was from the New York
15 Times this fall about residential treatment for
16 eating disorders, and quotes a dad that said I spent
17 \$350,000 for something that was ineffectual, and
18 that the standards just aren't there for that sort
19 of treatment. We are all struggling with this.

20 This is very timely, and it continues to
21 be. We are also, I think, clearly moving or moving,
22 we are there, in terms of investing in and

1 understanding how to best implement a value-based
2 insurance design. How do you get there, and the way
3 you get there is having the best information around
4 effectiveness.

5 We are now several years into the
6 institute, very much appreciated the outreach from
7 staff for the Board, and one of the things we talked
8 about is just to help us understand what the
9 research agenda looks like, what is the status of
10 the research projects, where do we have results,
11 what is ongoing, what is on the drawing board. I
12 think some fairly basic questions.

13 We ask that because that is kind of basic
14 information that the employer community is going to
15 want to understand when they look at sending in \$2
16 million here or less yearly, help us understand what
17 is the status of the projects. They are going to
18 want to know how is this relevant to my coverage, my
19 benefits designs, or not. I think that is just the
20 first question.

21 Once we have that, then how do you
22 communicate that in a way that is accessible and

1 usable to this particular constituency. We
2 recognize you have a range of constituents here for
3 this information.

4 Doing so in ways that gets to an audience
5 that is not steeped in science, but does understand,
6 I think, coverage policy and evidence, where there
7 is evidence and where there is not. Putting it into
8 a form that makes it understandable and accessible
9 to employers, to large employers.

10 They work with really fairly sophisticated
11 people, but those are the kinds of questions that we
12 are going to be getting, particularly a question of
13 should this continue. Do we think it should
14 continue, are we going to support reauthorization?

15 The kinds of topics that I know you have
16 had input from clinicians, from the insurance, third
17 party carriers, et cetera, I will mention them
18 briefly, but they wouldn't be any surprise. I
19 mentioned mental health, chronic disease. I think
20 the number out there is still about the same, about
21 20 percent of the population accounts for 80 percent
22 of the costs, and more and more employers are really

1 trying to look at those high dollar claims and
2 understand how do we get control there of that.
3 Autism comes up frequently as well, so understanding
4 how those therapies work or don't work is an ongoing
5 area of interest.

6 I guess I'll end with a message of what's
7 the data and how do can you put it in a format that
8 is going to be understandable and accessible and
9 meaningful to an employer audience.

10 I want to say we empathize a bit with that
11 because under the ACA, group health plans are under
12 a similar obligation, and we were directed to create
13 documents to allow comparison of benefits coverage,
14 and the insurers had to do the same thing, reading
15 levels, et cetera, a couple of pages, and it's not
16 easy. We get that. It's important. We have been
17 working to do something similar to make sure that we
18 are able to put information into the hands of the
19 ultimate user, for us, again it is the participants
20 and employers.

21 I will end on sort of what do I hear about
22 most. We travel around the country and talk to

1 employers in every major metropolitan area, both
2 coasts, et cetera, and all industries. The oil and
3 gas industry right now is very different from the
4 tech industry. You have zero unemployment in the
5 tech industry, you have a down market in oil and
6 gas, so they are looking at benefits a little bit
7 differently in terms of where they make best use of
8 their dollars. One is working hard to recruit and
9 the other is not exactly in that position.

10 The single common thread is we are
11 desperate to engage our employees, our participants,
12 and especially our spouses who cost more than
13 anybody in a plan, in the best way possible.
14 Looking for ways to use effective communication is a
15 challenge for all of us going forward.

16 MR. BECKER: Thank you very much. Ted,
17 bring us home.

18 MR. CHEATHAM: Are you saving the best for
19 last? Just kidding. I apologize profusely for not
20 being able to get there, I tried very hard to make
21 it there, because it is so much better to be in
22 person, to be able to see each other, and see what

1 we are doing.

2 I want to say wow. I think James and
3 Kathryn hit this, you almost don't need me. I think
4 James said it much more eloquently than I did, and
5 Kathryn probably has a better grasp of that. I
6 won't bore you.

7 I just want to say I echo their comments,
8 and I want to give you a couple of examples to maybe
9 understand how we do this as a small little state
10 payer, and understand the politics that we have as a
11 health plan in a state, because my boss is elected.
12 When any of our constituents don't get what they
13 want, they write a letter or call the Governor, and
14 we are a very small state, and everybody knows the
15 Governor. That's how he got elected. It does bring
16 the politics into this that we need help for as
17 payers, much like both James and Kathryn have said.

18 Some examples. Let's look at programs for
19 prostate cancer. There is a drug that came out that
20 cost \$90,000, extended life by four months, and we
21 have to ask the question -- I agree with you, if it
22 is not four months, it makes a big difference, and

1 if that four months helps me get to see my child
2 graduate from high school, those things are very
3 important to unique people.

4 We are setting policy at a state level that
5 maybe there can be exceptions for, but we need a
6 policy rule and we need some help. I say things
7 very crassly and very bluntly, so please, since I'm
8 not there, just try to understand the message I'm
9 trying to convey, not the way I'm conveying it.

10 I really do think it is time to throw into
11 this mix a little bit of the efficacy of the time
12 life value of the expenses that we are making.
13 Think about this for just a minute.

14 The Affordable Care Act took us into that
15 mode where most plans in the states, including ours,
16 had \$1 million lifetime maximum. That went away
17 with the Affordable Care Act, for good and for bad,
18 and it is great for the end consumer, it is bad for
19 the health plan.

20 I'm not taking a side here, it is just in
21 the old days when somebody would go into the
22 hospital and start to reach that \$1 million maximum,

1 those hospitals realized benefits were going to
2 start to decay, and they had to get a mitigation
3 strategy for that patient.

4 That mitigation strategy I'm seeing is no
5 longer there. It is looking like an unlimited
6 pocketbook. I have people sitting in a hospital
7 that are going to die in a hospital at 3 and \$4
8 million, where it used to be \$1 million.

9 What I'm telling you is as a health system,
10 I can't afford this, and I need help at a level of
11 credibility, at a national level, which is PCORI,
12 who has that respect and integrity, to say this is
13 not appropriate. I want you to go a little farther.

14 In the past, I've looked at PCORI, on the
15 prostate cancer issue, for example, PCORI does a
16 great job of saying look, here's what you can do
17 with Da Vinci surgery, here is what you can do with
18 wait and see, here is what you can do with the
19 insert pill, there is the four or five treatments
20 and what all the impacts are, but you don't go far
21 enough to say you really shouldn't be covering this
22 because you're not getting efficacy out of it.

1 We want some guidelines that we can set
2 policy from, much like James said. PSA screening,
3 for example. It is now recommended not to be done
4 except in cases of special risk factors, but just
5 the other day in the Kaiser News Bulletin, there is
6 a physician advocating that was a wrong decision, we
7 have to continue to do PSAs. I don't know the
8 answer. I'm not a physician. I want PCORI to help
9 me with those types of things.

10 New technologies coming out all the time.
11 We have the push on for colonoscopies, right, for
12 2020. There is a big push, our Governor signed a
13 pledge to get there, increase colon screening. That
14 is all well and good, but now we have three or four
15 fecal occult blood tests out there with varying
16 pieces of efficacy that cost money, present
17 false/positives or false/negatives, and require
18 retesting of a colonoscopy anyway.

19 Those are the things to help me. I want to
20 give you one final example, and I will stop and take
21 some questions. Rheumatoid arthritis, as you all
22 know, is a very expensive disease with a very

1 expensive medication, in the thousands of dollars.
2 There was a study that showed a triple cocktail of
3 generics and lower cost preferred brand drugs could
4 accomplish the same thing with the same outcomes.
5 For the life of us, we cannot get a rheumatologist
6 in this state to adopt those guidelines no matter
7 how hard we try.

8 I understand three pills is harder to take
9 than one, and taking some at morning and some at
10 night is harder than taking them once a day. I do
11 understand those things.

12 When you can do something for thousands and
13 thousands of dollars less that is just as effective,
14 we have to find a way -- you have to help us push
15 that as a guideline. It's like new drugs. If I
16 understand it, the FDA approves drugs just to prove
17 that they don't kill anybody, not that they are
18 going to be much better than what is already out
19 there. We need to take a hard look at those as
20 well.

21 I will stop there and take questions, and I
22 hope I wasn't too crass.

1 MR. BECKER: Thanks very much.

2 DR. NORQUIST: Larry, I'll let you
3 recognize people.

4 DR. JESSE: All this discussion about value
5 has inherent conflicts. Sorry, Bob Jesse, Board.
6 The equation we use is value is quality over cost,
7 quality is in the eye of the beholder, and cost is
8 not always in dollars. If you're looking at it from
9 an insurer's perspective, it is a very different
10 view than if you're looking at it from a patient's
11 perspective.

12 Kathryn, you are in a sort of interesting
13 position because as an employer, if the insurance
14 company denies, you can be an advocate, but as the
15 employer and the insurer and you issue a denial,
16 then it creates a different level of conflict with
17 the employee base.

18 One of the hopes, I think, of PCORI is we
19 can deconflict that by providing the right kinds of
20 evidence that both patients, because that is who we
21 fundamentally represent, as well as employers and
22 insurers and everybody else, can begin to make the

1 kinds of decisions that need to be made, but we can
2 do it by communicating information in ways that
3 everybody understands it, so there is not the
4 misunderstanding of why denials, for instance, are
5 made.

6 If there are different ways PCORI should be
7 operating, I'd love to hear that from you all.

8 MS. WILBER: I think we would agree with
9 your comments. First of all, as you know, there is
10 a process where there are benefit denials, whether
11 it is made by the TPA and then ultimately by an
12 employer, which retains the ability to do so, and
13 that is through an ERISA governed claims and appeal
14 process. That includes external review, and third
15 party review is as a result of the ACA. Many
16 employers were doing that anyway, especially for
17 this very hard call cases.

18 That is where the kind of information that
19 PCORI can provide is very helpful. I completely
20 agree with that. I think what we are also talking
21 about is how do we translate or communicate that
22 information in a way that people understand what it

1 is and the value of it, what does it mean for me as
2 a patient or as an employer making coverage design,
3 and for administrators making a decision under those
4 plan terms as to whether that is covered under the
5 plan, but then is it medically necessary for that
6 particular patient at that point in time. That is
7 where it really comes down to specifics.

8 MR. BECKER: Alicia?

9 DR. FERNANDEZ: Thank you. Alicia
10 Fernandez, I'm a Professor of Medicine at UCSF, and
11 I'm sorry to say I do work with those hard to reach
12 populations.

13 I really want to thank all three of you for
14 your directness and your honesty. I find it
15 extremely useful and helpful as we move forward.

16 Let me be equally direct and honest. You
17 don't want a research institute, you want NICE.
18 NICE is a British institute in which evidence is
19 brought together and a clear direct guideline is
20 issued. That is not what PCORI was set up to do,
21 not only because it was told not to take into
22 account costs, and I agree with you that it should

1 take into account costs, but it wasn't set up to say
2 don't use that prostate drug that extends life by
3 three months. It was set up to say does that
4 prostate drug extend life, and is it better than
5 this other prostate drug that extends life.

6 If you want clarity and help on making the
7 hard call, I suggest you make the hard call and say
8 we will not cover that prostate drug, it is not
9 going to be part of what we do, or if that's not
10 within what is possible, I wonder whether what you
11 want is not a somewhat better PCORI, but what you
12 want is not a research institute at all, but rather
13 a place where these very difficult, very appropriate
14 national conversations can happen.

15 The reason I think this is worth stressing
16 is that I think you may be criticizing PCORI for not
17 doing what it never set out to do. I think it's
18 fair to criticize PCORI for not doing well things it
19 may have been set out to do, but not so fair to
20 criticize it for not being able to play a central
21 national role that it was not set up to do.

22 I think having that distinction clearer in

1 your minds will help us work better together as we
2 move forward to look at PCORI's reauthorization, and
3 as we all think what should PCORI 2.0 be like, or
4 whether there should be some other form of
5 organization or some other real different
6 metamorphosis of PCORI.

7 Anyway, thank you very much for your input.

8 MR. CHEATHAM: If I may, I agree with you
9 100 percent, and I said please try to understand the
10 message that is there. Gray and I have had this
11 conversation many times, that really is not what
12 PCORI was set up for. I agree with you. That was
13 not the charter. I think some of the things we are
14 looking for was clearly not in your charter.

15 There is clearly a role for an unbiased
16 research institute to help us determine the science
17 for this, and I think you asked where is PCORI 2.0.
18 I don't know how we link you into things like the
19 Oregon Med Project and some other comparative
20 effectiveness research organizations so you can give
21 us the unbiased science, and we can have the
22 dialogue that you are talking about on how to

1 implement that science effectively.

2 MR. BECKER: Kathryn?

3 MS. WILBER: I agree with your message and
4 Ted's comments as well. I think we understand that
5 what PCORI was authorized to do by Congress is not
6 NICE. I didn't quite mean it that way.

7 I think I'm at a very basic level with what
8 I'm hoping to communicate to you, tell us what you
9 have done in terms of the research agenda that you
10 have taken on, that you have funded, and what is the
11 status of those projects, where are the results,
12 what are you studying, when are we going to get the
13 results of what is in the pipeline, just really
14 basic information that in your world, I think, you
15 are able to talk the talk as researchers in clinical
16 practice.

17 It's very important that information also
18 be made available to these other constituencies, and
19 we are one, and individual patients, too. If I'm
20 having trouble looking at your Web sites and
21 understanding what you are delivering on, how does
22 the average American?

1 This Administration has been remarkable for
2 transparency and imposing requirements of
3 transparency. We now have average ordinary
4 Americans who comment on regulations. In the old
5 days, you needed the Federal Register to do that,
6 and you needed to understand the process. Right
7 now, you can go online and people are.

8 I can help my members distinguish NICE from
9 your mission, but that might be something you might
10 need to do as well in terms of saying hey, this is
11 where we have jurisdiction and this is not. Maybe
12 that is needed, but it is not something we can do.

13 MR. GELFAND: I also agree with you. I
14 will say this, like many parts of the ACA, the
15 authorizing language that created PCORI was an
16 experiment, and we have now had some years to look
17 back and say, well, did we really design it to get
18 what we wanted and what we need, or are there some
19 changes that may need to be made.

20 The way I'm looking at this conversation is
21 a forward looking one, it is not about wagging a
22 finger at folks for what they did or how they did

1 it, but to say this is what we need, and we have
2 always known exactly what we need. We need
3 information we can act upon. Going forward, our
4 goal is going to be to ensure that PCORI has the
5 ability to get that information and the incentive to
6 make that a priority.

7 MR. BECKER: Sharon, Ellen, Joe. Sharon?

8 DR. LEVINE: First of all, thank all three
9 of you for your time. We feel your pain, actually.
10 For six years now, it has been very clear to us that
11 the mandate or the chartering of PCORI was designed
12 to produce exactly what it is producing, and that
13 was based on lack of agreement. It was fundamental
14 and widespread lack of agreement about purpose and
15 what we had was the result of negotiation and
16 compromise.

17 Our job has been for the last six years to
18 do the very best we can in terms of, as Felicia
19 said, executing with skill and as much speed as we
20 can on the charter we have.

21 I think the good news and the bad news for
22 self-insured employers is that if everything was

1 fully insured, you would have no choice. There
2 would be no choice. You would be forced to cover
3 everything that is under the ACA. That's the good
4 news. The bad news is you have a choice.

5 This is just my personal opinion. The
6 level of detailed information required to make
7 benefit decisions about interventions is very
8 different than the kind of information, which is
9 largely about probabilities, to make informed
10 clinical decisions with good decision support.

11 The easy ones for benefits, it always works
12 or it never works. Those are easy and
13 straightforward, and a very small percentage of what
14 we deal with in clinical care. I think the issue
15 for the FDA that Ted mentioned, I think it is
16 probably a little bit of exaggeration, but it is
17 comparing an intervention to placebo, the vast
18 majority of the time.

19 Our job is to pick up from there and say
20 what can we add to the understanding for whom this
21 might work and under what circumstances. It's very
22 different than saying we will cover something or we

1 won't cover something. You end up with the burden,
2 the choice, the opportunity, if you will, to say we
3 need information about under what circumstances we
4 can with confidence approve coverage, that it won't
5 deliver us from value or deny it with some
6 understanding there is science behind the denial.

7 The application of that to the individual
8 is a tricky business. As I said, we feel your pain.
9 I think we are all committed to trying to produce as
10 much information and evidence, to the extent we can
11 at the coverage level, but perhaps equally
12 important, at the clinician/patient/family level, to
13 think about the implications of the choices you
14 have. None of our jobs are easy.

15 MR. BECKER: Ellen?

16 DR. SIGAL: First of all, let me apologize
17 because I was out of the room on an urgent call, but
18 I think I have the gist of what you are saying. I
19 just want to say the complexity -- I work very
20 closely with FDA and work with patients on
21 personalized medicine.

22 You are making an assumption that we have

1 the science, that we absolutely know what is going
2 to work for a particular patient, and the answer is
3 it's evolving and we don't know. If you have a very
4 clear biomarker and you have a drug that works, it's
5 pretty easy. Even in immunology today, we are so
6 excited, it fails 80 percent of the patients.

7 It is hard to know, depending on the
8 trials, if the assay was accurate, is it FDA
9 approved, is it not, the drug didn't work for the
10 patients. You are asking us, which is not our
11 mandate, but you are making the assumption that the
12 science is there and we know the answers. The
13 answer is we don't, we're trying to work on that.

14 Having said this is a very confusing time,
15 because right now I'm dealing with where patients
16 want access to all these protocols, and we are
17 trying to do that with single patient now with the
18 FDA, we are doing a pilot in cancer. It is very
19 complicated because when a patient has a diagnosis,
20 a very ominous diagnosis, particularly where there
21 are no treatments, they want access to those drugs.

22 It is very hard on an individual basis to

1 figure out what is right for that individual patient
2 and what is right for society. What I think people
3 are saying is that we actually know the answers, and
4 the answer is we don't. We are getting there, and
5 we are getting a lot better as we have more
6 biomarkers, we have targets and clinical trials, it
7 is going to be easier, but I can tell you today, you
8 can go to three different cancer centers for the
9 same disease and get three different options. Why
10 is it?

11 MS. WILBER: Again, I think we probably
12 have more common ground than we realized or
13 understand because that same patient is coming to
14 the employer, too, and saying I want to go here, I
15 want to go there, and struggling with that as well.

16 MR. BECKER: Joe? Ted?

17 MR. CHEATHAM: A comment on the cancer, if
18 you don't mind.

19 MR. BECKER: Go ahead, Ted.

20 MR. CHEATHAM: I'm sorry I'm not there. I
21 will try to give you another interesting example
22 that goes to your science question, it's very

1 unique.

2 Marshall University in West Virginia has
3 developed a program called ChemoID, and they have
4 proven great effectiveness on two or three cancers,
5 one of them is a rather rare brain tumor, and they
6 will then take a biopsy sample, run it against 20 or
7 30 known treating drugs, and can then provide the
8 physician with the course of treatment that will
9 prove most effective, scientifically most effective.

10 They found 80 to 90 percent of the time the
11 drugs recommended response, so we are doing a pilot
12 with them now, and it has been extremely difficult
13 to do a pilot because you will go to a doctor, and
14 we are doing it, but we are doing it with a closed
15 set of physicians that have accepted the science,
16 but most of the cancer treating physicians in the
17 State of West Virginia are going I don't care if
18 that Chemo ID comes back and says use drug A, I've
19 been treating my patients with drug B for years,
20 it's the standard of care, I'm not going to stop.

21 What happens is you put the person on drug
22 B, 80 percent of them fail. They have been on an

1 expensive drug that we paid for, the patient has
2 suffered, and you know cancer is very painful to
3 treat for the patient, and then the patient has to
4 start a new regimen back to drug A, which we said
5 they should have started in the first place.

6 The adoption is difficult. I understand
7 your side, but politically, us having something at
8 the Federal level to help us say this is good
9 science to help change is acceptable, because it is
10 very difficult for us to change in the state. I
11 hope that makes sense.

12 MR. BECKER: Ellen?

13 DR. SIGAL: Because I work a lot in this
14 area, I would like to say if they have an assay that
15 works, let them publish, and let them get FDA
16 approval of it, and let them go in a peer review
17 journal. Everybody says that they have something
18 that works, and we don't know if it works.

19 It's hard to ascertain whether that is
20 valid or not valid, whether an assay is really
21 giving the response they claim it is, let them
22 publish it. Let them work with FDA on it. If you

1 get that, then in fact people will pay for and
2 people will pay attention to it.

3 MR. CHEATHAM: Agreed, and that is what
4 they are doing now. That's exactly what they are
5 doing now. I agree. Point taken.

6 MR. BECKER: Joe?

7 DR. SELBY: Thanks. Thanks to all three of
8 you. I really want to add my gratitude and
9 appreciation. What you are saying isn't surprising
10 to us, but each time somebody says it, they put it
11 in a slightly different way, so it's helpful. It
12 does sink in.

13 We have signaled our strong interest in
14 getting to these products in short order, and held a
15 meeting, I think James, you were there, a couple of
16 weeks ago on the 14th. We heard about the types of
17 products that would be helpful.

18 I want to say two things. Number one, I'd
19 like to round out a comment that Alicia made about
20 NICE. I would amend what she said, that actually
21 what we all need NICE, to what we all need is a
22 combination of a NICE-like entity and a PCORI-like

1 entity, and in fact, that is just what they have in
2 the U.K. They have the NIHR in the U.K., which is
3 our sort of sister agency in the U.K., except they
4 have been in existence for about 20 years. They are
5 now producing things like the very nice study of
6 patient-centered and long term outcomes in prostate
7 cancer in the New England Journal a couple of weeks
8 back.

9 They worked very closely with NICE in
10 determining the information needs that policy makers
11 have, and the evidence gaps, and handing off the
12 information when they do produce it to the policy
13 makers.

14 We are still looking for a relationship
15 like that in the U.S., and I think going forward,
16 one of the things we have learned is that getting to
17 just the right question is not easy. The question
18 that really will settle the policy makers, the
19 clinicians, the patients' decision-making needs.
20 You can't escape the fact that you have to be in
21 close contact.

22 I hope these next three years, as somebody

1 pointed out, are years of greater contact, where we
2 talk both about what we can do now and perhaps what
3 our next generation, as somebody said, pure science,
4 I think we are applied science, entity could
5 contribute.

6 There is a need for somebody who takes this
7 information, perhaps it could be PCORI, but there is
8 also some real virtue in separating the producers of
9 the science from those who try to digest it and make
10 policies.

11 MR. GELFAND: I just want to quickly go on
12 record saying we are not in favor of a panel of
13 government bureaucrats who will decide who and who
14 cannot get which treatments when or for how much.
15 That is not what we are pushing for.

16 DR. FERNANDEZ: Can you explain what you
17 are in favor of? You are asking for something
18 similar to NICE. It would be fantastic to partner
19 with you on this. What would you be in favor of?
20 Who should be making that call?

21 MR. GELFAND: Plan sponsors should be
22 making the calls for what their plan will pay for

1 and sponsor. They should have information that they
2 can use to make educated decisions about what they
3 will and will not include.

4 Whereas, when I picture NICE, I picture
5 them making decrees such as once you are over 74
6 years old, you may not get a hip replacement, right?
7 We have no interest in something like that. What we
8 would like to know, for instance, on the cancer drug
9 that extends life for only four months and costs
10 hundreds of thousands of dollars, what is the
11 quality of life of those four months?

12 Are there other treatments that could
13 better suit the needs of specific individuals? Does
14 it make sense to increase the premium for the other
15 999,000 people who are covered by our plans in order
16 to pay for the one person who is going to need that
17 particular drug?

18 Those are the kinds of questions we are
19 asking when we are presented with this information.
20 That is what we are hoping that a group like PCORI
21 can produce, information we can use to make informed
22 decisions about that.

1 MR. BECKER: Bob?

2 DR. ZWOLAK: Bob Zwolak. I'd like to add
3 my thanks to you for coming and sharing your
4 comments. I think it is clear we don't like
5 coverage policies, and there are certainly many
6 things that we don't do, but what we should do and
7 can probably do better is comparative effectiveness
8 research.

9 I wonder if I could put you three on the
10 spot, if you're willing, to say what are your two or
11 maybe three very specific highest priorities that
12 just jump out of your mouth, research projects in
13 comparative research that PCORI could potentially
14 sponsor.

15 MR. GELFAND: I have one that's been
16 burning in my brain for the last half hour, so out
17 with it. There is legislation that is currently
18 moving through Congress that would add eating
19 disorders to mental health parity requirements,
20 which means my plan sponsors are going to be
21 required to cover the inpatient stays for a month or
22 longer for eating disorders.

1 We need data on whether or not those are
2 effective treatments. We badly, badly need data,
3 because it is insanely expensive. As I said, for
4 the group of people who that helps, that may be
5 good, but we are going to be talking about hundreds
6 of thousands of people who are going to be paying
7 more for their health insurance in order to pay for
8 that. We badly need to know what works and what
9 doesn't work in that specific space of mental
10 health.

11 MR. CHEATHAM: You know, James mentioned
12 this earlier. In our plan, specialty medications
13 are going up at 25 percent a year. Some generics
14 are doing the same. You have all been reading about
15 all these issues with drug pricing and what
16 manufacturers are doing.

17 It would be extremely helpful to look at
18 the efficacy of some of those drugs across the
19 board.

20 DR. NORQUIST: Larry? I think Leah has the
21 final, and then we are going to need to stop, we are
22 about out of time.

1 MR. BECKER: Kathryn can give her example.

2 MS. WILBER: Which is essentially
3 seconding, I think clearly drug issues are rising
4 very, very quickly to the top of the heap for all
5 constituents. I also mentioned the mental health
6 challenges, eating disorders was one. That is
7 certainly not the only.

8 If you were to look at buckets of issues
9 that employers are really grappling with now around
10 decisions and what's the best thing to cover and
11 why, those are two areas.

12 DR. NORQUIST: What I would say is you are
13 certainly in an area that could use some evidence.
14 It's interesting you bring that up. Many years ago
15 when I was at the NIMH and we were doing clinical
16 trials, residential treatment of children for a
17 variety of mental health things was one of the
18 number one issues next to the cost of the new
19 antipsychotics at that time. It remains an issue,
20 and I would say surely it is something someone
21 should put some effort into.

22 The other thing I was going to say you did

1 mention. One of the things we get pushed a lot to
2 do is to really do trials on the new high cost
3 drugs, but when you look at the costs, certainly as
4 an employer, many of your biggest costs are not
5 about the new -- maybe one new blockbuster drug, but
6 often they are the common, if you will, treatments,
7 that go on for a long time that are really costing
8 you a lot.

9 If you were going to weight in some
10 direction --we only have \$500 million a year, so
11 it's not like we get to do all of these trials, but
12 if you were going to weight where you had to put
13 your effort initially, would you go for the new big
14 blockbuster high cost or would you really focus on
15 some of these, as you said, chronic illness issues?

16 MS. WILBER: I think our vote would be more
17 on the latter. Again, musculoskeletal, joint
18 replacements, chronic low back pain, garden variety
19 of complaints that people have that we still have
20 some uncertainty about what works best.

21 DR. NORQUIST: One of the things I see
22 quite often is pain, tons of different kinds of

1 treatments, and of course, the big issue is
2 insomnia, and the kinds of interventions and stuff
3 that are put into that.

4 MR. BECKER: I want to thank you three for
5 coming. Ted, thank you for being on the phone.

6 DR. NORQUIST: James?

7 MR. GELFAND: I was just going to agree
8 with that. I think the drug companies are moving
9 away from focus on blockbuster to focusing instead
10 on target populations that will be on maintenance
11 and medications for the rest of their lives, so that
12 is where we want to focus, too.

13 DR. NORQUIST: That's very helpful. I
14 think what we are saying is there is an opportunity
15 to try to do something together. We can all get the
16 kind of information that we all want.

17 Thank you, Larry, for putting this
18 together. I want to thank you, and thank you, Ted,
19 for also being on the phone.

20 MR. BECKER: Thank you for being so candid.

21 [Applause.]

22 MR. CHEATHAM: Thank you for having us.

1 DR. NORQUIST: We are transitioning here
2 with Lori Frank and Laura Forsythe.

3 DR. SELBY: As Lori and Laura move to their
4 seats at the table, I just want to say this is an
5 exciting presentation for me because a couple of
6 years ago, Harlan Krumholz made a strong point about
7 beginning to use our own data to understand what we
8 are doing. One of the most important things I think
9 we are going to be called on to do in 2017, 2018,
10 and 2019, as people think about our renewal, the
11 question of our renewal, is whether all this jazz
12 about engagement really makes a difference.

13 The presentation today is a database
14 beginning to exploring a question that we have to
15 answer fairly soon, and that is about whether our
16 engagement investments -- what are they reaping in
17 the projects, and how might we look at these data in
18 ways that would help us distinguish whether they are
19 making a difference.

20 Thank you very much.

21 DR. FRANK: Thanks for that, Joe. I'm Lori
22 Frank. I'm Program Director for Evaluation and

1 Analysis, and I am joined by my colleague, Laura
2 Forsythe, Associate Director.

3 We're very excited to be here this
4 afternoon to share with you very briefly some
5 information that we shared in greater detail with
6 the evaluation strategy working group that includes
7 Board members and Methodology Committee members
8 earlier this month.

9 In the interest of time, we are moving very
10 quickly through these particular results, but we
11 want to be sure to leave some time for discussion of
12 the direction of our future work in the area of
13 understanding the impact of engagement in research
14 should take.

15 Today, we are focusing on two questions.
16 How active is engagement in PCORI projects? Does
17 engagement in research lead to changes in study
18 designs, study questions, study processes, or in the
19 outcomes that are chosen?

20 As part of this particular presentation, we
21 are updating from the last time we spoke with the
22 full Board, which was about 18 months ago, and we

1 are excited to say we have much more data than we
2 did then, so at that point, we just had information
3 from projects that were completing year one, now we
4 have information from projects completing years one
5 and two, and we have more data.

6 When last we spoke with you about this, we
7 were relying on data from individuals who agreed to
8 answer our questions, awardees, now we have
9 comprehensive data from all awardees, which to us
10 makes this information much more powerful.

11 We also have always presented to you the
12 signals that we are finding qualitatively. We have
13 talked today already earlier about some of the
14 examples that you hear from awardees about the
15 impacts of engagement.

16 Those examples can be very, very powerful,
17 but we are particularly pleased that we now have
18 enough qualitative data that we were able to
19 complete a robust and systematic qualitative
20 analysis, so it is another way to enhance what we
21 are learning. It compliments what we hear through
22 the quantitative data that we are collecting, and it

1 allows us to hear the voices of the awardees and
2 their research partners in a different and we think
3 a very powerful way.

4 To orient ourselves, this is the logic
5 model that we are using as our evaluation framework
6 with inputs on the left to outputs on the right. We
7 are working from the assumption that there are
8 unique elements to the PCORI Way, including the way
9 in which PCORI goes about topic capture and
10 prioritizing the research that it funds. Definitely
11 unique ways PCORI is approaching merit review, et
12 cetera.

13 The logic model flows through that next
14 green box, which is where we are funding patient-
15 centered CER using this unique PCORI Way. Patient-
16 centered CER is a function of engagement, and
17 performing the research to high methodologic
18 standards.

19 Together, that patient-centered CER box
20 leads to an output, which is the goals we have all
21 set for ourselves at PCORI, to increase the quantity
22 and quality of useful information, to speed the

1 uptick and use of that information, and to influence
2 the way that others conduct research.

3 The ultimate goals are always there to the
4 right. In the purple shaded boxes, we believe those
5 goals will lead to better health decisions,
6 improving health care, and ultimately improving
7 health outcomes.

8 I wanted to set that context because we are
9 zooming in now on that green box, where we have
10 patient-centered CER. This is where we are
11 examining engagement in research more closely.

12 On the left, you see real descriptive
13 variables, the who, what, when, why, and how of
14 engagement. In that center light shaded green box
15 are the research questions that we have about the
16 ways in which engagement is making a difference. We
17 are positing that engagement in research changes the
18 research questions, the study designs, aspects of
19 the study process, and the outcomes that are chosen.

20 It also changes the ways in which the
21 participants experience the research which leads to
22 positive effects on recruitment and retention and

1 rates of study completion.

2 As a group, these variables can describe
3 study quality which is one output to get us toward
4 our goals. We are also saying that engagement in
5 research changes to whom and how the results are
6 disseminated. It improves trust in the information,
7 and it enhances understanding of the information
8 that derives from the research that is patient-
9 centered. That, too, is leading us to those outputs
10 on the right.

11 We are thinking of this as our predictive
12 variables on the left with intermediate outcomes
13 there in the center, ultimately pointing towards
14 longer term outcomes, and to make this concrete, we
15 have put some time notations with this.

16 We have been collecting information, as you
17 know, from our awardees and research partners, since
18 PCORI has started to fund projects. We now are
19 amassing a reasonable amount of descriptive
20 information, and through this past year, we have
21 been able to collect some information on our
22 intermediate outcomes.

1 We are turning our attention now to using
2 those data to help explain that relationship between
3 the predictors and the intermediate outcomes, and
4 that is some of what we will describe today, how we
5 are headed in that direction.

6 Those longer term outcomes will be able to
7 be addressed through the information that we are
8 collecting in the out years, 2018 and 2019.

9 Another way to frame this is when can PCORI
10 answer the key questions we all have about
11 engagement in research. We have begun to do so. We
12 do have information and we will be sharing some of
13 it now. As I said, we shared some fairly detailed
14 information with the evaluation strategy work group.

15 We are moving from that description to
16 explanation. What you see as time is moving on is
17 that we are able to explain relationships once we
18 have enough data.

19 Let's turn to the information that we have.
20 This is our tree of knowledge for engagement in
21 research. Starting at the bottom, the lower left,
22 we are always monitoring what is going on in the

1 literature, and we are really pleased to see more
2 and more awardees reporting out.

3 In this case, our focus is on what they are
4 reporting out about their engagement and what they
5 have learned. We have a nice example to share with
6 you in just a few minutes.

7 On the lower right, it is just a reminder
8 that PCORI is actually funding work on understanding
9 engagement in research, and obviously, we are doing
10 what we can to harvest that information, so
11 beginning with pilot projects that has this as an
12 aim. We also had a section of the Improving Methods
13 portfolio focused just on this, and we funded some
14 engagement awards on this.

15 That next level up shows pipeline to
16 proposal awards where we are also taking the
17 opportunity to learn about the engagement that is
18 happening in those projects, and we have reported
19 back to you on some of our stakeholder views work,
20 where both formally and informally we have been
21 speaking to a range of different stakeholder groups
22 about a range of issues. We do take those

1 opportunities to ask them about their knowledge of
2 and attitudes toward engagement in research.

3 The focus for today is on those top
4 branches, what we hear directly from our own
5 research awardees and from their research partners.

6 As part of this update, I wanted to share
7 with you how we are going about collecting all this
8 information. At annual intervals, we have the
9 awardees report back to us. We are now hearing from
10 all awardees. The last time we spoke, it was just
11 those awardees who chose to answer the questions.
12 The awardees nominate research partners for us to
13 speak to as well.

14 For the awardees, we hear through our
15 interim progress reports. We have over 250 projects
16 represented now. We have heard from over 250
17 partners through our Ways of Engaging ENgagement
18 ACTivity Tool [WE-ENACT].

19 I wanted to make sure to be clear that
20 there is not a one-to-one correspondence here, so
21 the research teams can nominate more than one
22 research partner for us to follow up with, and in

1 fact, about two partners per project are represented
2 here.

3 We ask about both open and closed-ended
4 items, and that is why we are approaching this with
5 both a quantitative analysis of the data and a
6 qualitative analysis. We are appreciative of
7 colleagues at RTI who have been helping our own
8 internal staff on some of the quantitative analysis,
9 and very excited to share what we are learning out
10 of cluster analysis, specifically, as it is posing
11 us to move from description to explanation.

12 We are also working with external partners
13 who have expertise in qualitative analysis to
14 supplement what our own internal staff brings in
15 terms of that expertise.

16 American Institutes for Research and
17 Research Talk have both been instrumental in aiding
18 with these analyses. Together, we have developed a
19 codebook that is hierarchical or multi-level, where
20 we have identified themes across all of these
21 awardees. I really want to stress how exciting it
22 is to have all of these data now for this

1 qualitative analysis.

2 Because we have so much data, we can
3 document essentially how prevalent these themes are
4 across all the awardees. We are really moving from
5 the early detection of signal that we have talked to
6 you about before and that we all see in case
7 reports, to a more conclusive documentation of
8 learning out of the qualitative data.

9 The first question is how active is
10 engagement in PCORI projects? I want to remind you
11 that PCORI does require meaningful engagement in the
12 work it funds, and we assume that means that our
13 projects will have more stakeholder communities
14 represented, and more active involvement than has
15 been historically seen.

16 What do we see when we take a look at the
17 data? First, the data aren't mutually exclusive.
18 There are multiple stakeholder types engaged per
19 project. In fact, our awardees tend to engage
20 between four and five different stakeholder
21 communities in their work.

22 Clinicians and patients top the list. We

1 see a fair representation from advocacy
2 organizations and from health systems. About half
3 of the projects are engaging caregivers in some way.

4 I will just call your attention to that
5 third bar from the bottom, that is the payer bar.
6 The last time we spoke, remember that was a year and
7 a half ago, with much less data, about 7 percent of
8 our awardees reported they were engaging with
9 payers, and that has increased as the projects have
10 matured, and as more projects have come on line.

11 In what ways are these stakeholders
12 engaged? Beginning at the top, our awardees are
13 reporting to us their stakeholders are engaged as
14 research team members. We think this is a very
15 active form of engagement, and in fact, 44 percent
16 of the projects are telling us that not only are
17 they research team members, they are actually co-
18 investigators. We find this to be quite striking.

19 Eighty-one percent of the awardees are also
20 telling us they are engaging stakeholders through
21 advisory groups. Also, an active form of
22 engagement, but different from being a research team

1 member. Generally, these are advisory panels where
2 they convene multiple times through the course of
3 the project and provide input.

4 At the bottom, we have a less active form
5 of engagement that is reported to us, where partners
6 are surveyed or sent polls or interviewed. Again,
7 these data aren't mutually exclusive, so there are
8 multiple ways in which our awardees are engaging the
9 communities that are their research partners. In
10 fact, we find with 75 percent of our projects, they
11 are using two or more of these approaches in their
12 projects.

13 When in the course of research are these
14 partners engaged. We are right centered here
15 because we have year one and year two data so far.
16 We look forward to being able to report back on the
17 later stages, including all the way through to
18 dissemination, but we have cut it here at data
19 collection.

20 You can see there is active engagement of
21 research partners in deciding even what the study is
22 about, choosing interventions or comparators, and in

1 three-quarters of the projects, they are helping to
2 choose the outcomes that are studied.

3 I briefly mentioned that we had completed
4 some cluster analyses. We haven't updated. We have
5 always been focused on using our descriptive data to
6 begin to understand different models or topologies
7 of engagement.

8 The team has looked in a number of
9 different ways at what would form a cluster, what
10 factors lead to differential models of engagement.
11 We found that the number of partner types engaged,
12 the number of approaches, and the number of phases
13 of engagement together help us to differentiate
14 meaningful models of engagement.

15 There are roughly three levels. We labeled
16 the top level "intensive." We have an intermediate
17 level. That third level is called "limited." A
18 really important point is this is limited relative
19 to other PCORI projects.

20 If you think about it relative to projects
21 coming out of other funders, it's not limited at
22 all, it is quite a bit of active engagement. On our

1 scale, we have these three topologies which
2 ultimately we can put into service moving toward
3 explanatory models.

4 With that, I will turn it over to Laura.

5 DR. FORSYTHE: Thank you. We are also
6 interested in understanding our awardees' views on
7 the extent to which their partners influence each
8 phase of the projects they are involved in, and we
9 see notable consistency across the phases of the
10 projects shown on this slide, such that at least
11 three-quarters of the awardees report their partners
12 had a moderate or a great deal of influence on each
13 of these phases.

14 These ratings are helpful to us in setting
15 up future comparisons of interest because we can
16 look at those projects that reported none or a small
17 amount of influence compared to those reporting a
18 great deal as we try to understand differences in
19 both their approaches to engagement and the effects
20 of engagement on their projects.

21 When we compare what we are learning from
22 PCORI projects to what is documented in the

1 literature, including in recent systematic reviews,
2 we see PCORI projects do display a substantial
3 amount of engagement with multiple partner types
4 engaged across multiple phases of the project, and
5 through multiple approaches, and our awardees
6 believe that their partners are having a meaningful
7 influence across all the relevant phases.

8 This is good news, that across the PCORI
9 portfolio, our awardees are reporting engagement
10 that is consistent with our expectations.

11 For the question we turn to next that we
12 want to begin to answer today relates to the effects
13 of that active engagement on the study questions,
14 design, processes, and outcomes. PCORI expects
15 engagement will affect key aspects of the project in
16 meaningful ways, although the specific effects that
17 we would anticipate would depend really on the
18 project content and context.

19 To look at this more closely, we turn to
20 our qualitative analysis. The reason is because
21 those open-ended data provide a much richer
22 description of the ways in which engagement is

1 making a difference than we can learn about through
2 quantitative or close-ended questions.

3 As Lori mentioned, we have a relatively
4 large sample, over 250 awardees and partners who
5 have provided this open-ended data, and those data
6 went through a robust qualitative analysis process
7 on multiple aspects of the project.

8 Today, we are focusing on the project
9 processes and the impact of the partners on the
10 projects. We can also look closely to understand
11 how awardees' perceptions and partner perceptions
12 compare.

13 With regards to what difference engagement
14 is making in their projects, we actually see notable
15 consistency in the themes identified from both
16 awardee responses and partner responses. Everything
17 reported on this slide today is a theme that was
18 documented in at least 10 percent of both awardee
19 and partner responses, although most of them are
20 much more common than that.

21 We hear from both awardees and partners
22 that engagement was making a meaningful difference

1 in terms of selecting the research question,
2 selecting the interventions and comparators,
3 choosing which outcomes will be measured and how
4 they will be measured, developing a data collection
5 process, including when, where, and how the
6 information is collected. The strategies for
7 recruiting and retaining participants.

8 Also, both groups highlighted the
9 importance of engagement toward enhanced enrollment
10 rates in their studies.

11 One unique thing we heard from the partners
12 was that they feel like research teams have a better
13 understanding of their perspectives due to their
14 involvement in the project, and that they better
15 understand their experiences, experiencing or
16 managing a given condition or their priorities for
17 where to go with the treatment.

18 One thing I want to note about these themes
19 is it is very exciting to see what we are learning
20 and a reminder that we are hearing from projects in
21 their first or second year, so we expect this list
22 of the ways in which engagement is making a

1 difference to grow as the projects progress towards
2 completion.

3 I want to give you one illustrative example
4 to help make these themes come to life a little bit.
5 The example here refers to the themes we told you
6 about with regards to selecting a strategy for
7 recruitment and enhancing recruitment rates.

8 For this particular project, a caregiver
9 partner told us about the role that the partners
10 played in revising their recruitment strategy, and
11 they noted they helped discuss with the project team
12 how to make families feel more at ease, why families
13 might choose to withdraw from a study, and better
14 ways to communicate with families who are already
15 involved in the studies. This partner told us that
16 as a result of that, more families stayed in their
17 study.

18 In the project reporting, the awardee team
19 told us based on what they heard from their
20 partners, they knew they needed a recruitment
21 strategy that was more responsive to busy families'
22 needs, and they wanted to change their recruitment

1 message to ensure that potential participants knew
2 that the study was designed with families, with the
3 intent of improving communication with their
4 physicians.

5 What the awardees told us is after they
6 made the changes to their recruitment strategy,
7 discussed with their partners, their enrollment
8 rates increased from 65 percent to 95 percent, and
9 their retention at 30 day follow up increased from
10 58 percent to 85 percent.

11 That is what we heard through our data
12 collection through PCORI reports. This group
13 actually published their learnings about engagement
14 and the way it affected their project in JAMA
15 Surgery, and we are grateful for that.
16 Increasingly, we are seeing those publications from
17 PCORI awardees. We also recognize there is a lot of
18 rich learnings about the effects of engagement on
19 our projects that come through PCORI's data
20 collections, so we are now hearing from every
21 project.

22 I want to take a moment to acknowledge this

1 particular partner, Aubrey Gibson, and the study
2 team, including Drs. Dean and Minneci.

3 We will continue to inquire with our
4 projects about the ways in which engagement is
5 affecting their studies as they progress toward
6 completion, and we have evidence already from both
7 awardees and partners that some of the ways in
8 particular that engagement is making a difference
9 includes changes to their interventions or
10 comparators, their recruitment strategies, and the
11 outcomes they are going to measure, and how they are
12 going to go about measuring them.

13 We want to direct your attention for a
14 moment towards where this work is headed. We wanted
15 to bring back this slide as a reminder that 2017 is
16 the year where we can really turn our attention
17 towards testing the associations between these
18 characteristics of engagement that we have been
19 working hard to document, like intensity models of
20 engagement as well as specific phases at which
21 engagement is happening, and the aspects of our
22 studies that are of particular interest, like which

1 outcomes are being selected for study, the
2 recruitment rates, and the time for study
3 completion.

4 The reason we will be able to turn our
5 attention to those questions now is because of our
6 growing robust samples of data of projects that have
7 matured to the point where we can answer some of
8 these questions.

9 DR. FRANK: So, mindful of the time.
10 Wanted to be sure to leave some time to hear from
11 you, questions you have about these data. Our
12 future questions involve using those intensity
13 models as predictors and explanatory models of the
14 impact, but we think we can look at variations by
15 intensity level and also by the phases in which
16 engagement takes place, and even by the effects that
17 engagement is having to see if that differs by study
18 type, for example, or by funding mechanism,
19 programs, essentially.

20 We are really interested in understanding
21 the effects of engagement on study operations, as
22 you have heard, but also what impact is this having

1 on investigators, on the partners themselves, and on
2 research institutions, since one of PCORI's goals is
3 to influence the way research is done, and we heard
4 a little bit this morning about potentially some
5 changes to the way in which IRBs deal with research
6 partners in terms of compensation. That is one
7 example that we can then tie back to intensity
8 models of engagement.

9 With that, I wanted to be sure to hear from
10 all of you, your comments and questions about this
11 particular set of questions.

12 DR. NORQUIST: Ellen?

13 DR. SIGAL: Thank you. I'm sure this work
14 is really important. Until the very end, I didn't
15 have any specificity of what it really all meant,
16 and I think if we are going to spend this time and
17 amount of money on research and qualitative data and
18 analysis, we need to give specific tangible
19 examples.

20 The idea of a trial changing because of
21 hours is exactly what we need, or if they are asking
22 the wrong questions. It is just too much to

1 consume, but if you can give simple, tangible real
2 life examples of where this methodology has made an
3 impact on a trial and for a patient, it would go a
4 long way to helping us talk about the meaning of it,
5 because it is all a whole bunch of interesting
6 research, but not really tangible enough to
7 understand what it really means.

8 DR. FRANK: If I could just respond real
9 quickly, I appreciate that point, making it
10 concrete. We did share with the evaluation strategy
11 work group some specific examples, exactly along the
12 lines you are saying, and we are happy to share
13 those more broadly. In the interest of time, we
14 scaled way back.

15 DR. NORQUIST: Francis?

16 DR. COLLINS: Thanks very much. My thought
17 in listening to this is that perhaps the most
18 interesting aspect of engagement, which you will
19 confront momentarily, will be the impact of patients
20 on data and results interpretation, and formulation
21 of final manuscript and conclusions of the final
22 manuscript, and you didn't mention that.

1 I was wondering why you hadn't included it,
2 and you said in your introduction that you only
3 included factors that you could actually collect
4 data for. Any second now, I think that will be very
5 important and may go to answer Ellen's question.

6 DR. FRANK: We do see some early examples
7 of exactly that, patient and partners being included
8 in the data analysis. That is something we look
9 forward to growing more data on.

10 DR. NORQUIST: Ellen?

11 DR. SIGAL: People are spending a lot of
12 money, spending a lot of time, and they want to know
13 real world results. You need that elevated for each
14 of those three, four, five examples, where this
15 research has yielded major changes. Otherwise, it
16 is impossible to comprehend. Everybody knows data
17 and analysis and all this is important.

18 You need to give multiple examples of where
19 this has changed the trajectory of a trial.
20 Otherwise, it is going to be lost.

21 DR. SELBY: This is a great question and I
22 know we don't have time to discuss it in depth, but

1 is that in your view more important than something
2 quantitative? In other words, often times people
3 want not examples but really showing in the book of
4 projects, something has changed.

5 Recruitment rates kind of get at that.
6 Other endpoints that will allow us to look at the
7 whole book, rather than pulling out a few examples,
8 or do you think it is just particularly with
9 Congress, much more the examples?

10 DR. SIGAL: For patients and the lay
11 audience -- of course, we have to hope this is
12 quantitative and qualitative, that we have done our
13 work. Nobody is impressed with all this unless you
14 can say this is what changed as a result of it. We
15 are spending a lot of money, and to justify your
16 existence, and frankly to justify this research,
17 unless it is research for research purposes, you
18 have to have examples of how this has helped
19 patients and how this really is meaningful work, and
20 people have benefitted from this work.

21 I know when I work on my trial and I work
22 with physicians, they will say to me, well, this is

1 a good scientific question. I said for who? There
2 is a difference between the science methodology and
3 the real world results that are coming to come from
4 it, and this is what we have to be mindful of.

5 It has to be real. You have to think about
6 frankly what patients are going to learn from this.

7 DR. SELBY: I think the trick, and you guys
8 can all help us with this, is how you transform the
9 anecdote into some kind of data that can be applied
10 to every study. I think, Bob, you were starting to
11 get into that a bit. Ultimately, did a study have
12 impact. Perhaps some day even compared to studies
13 funded by some other entity that doesn't push
14 engagement so strongly.

15 DR. SIGAL: I think we have changed patient
16 engagement in a meaningful way, but at the end of
17 the day, you have to have an example to show. I'll
18 give you an example. 60 Minutes is doing a big
19 program on the moon track. Everyone is excited.
20 The moon track was just announced a few weeks ago.

21 That is what people are looking for, okay,
22 so you have it, it's a big deal, give me tangible --

1 show me a patient who has benefitted.

2 DR. NORQUIST: Bob?

3 DR. JESSE: This is one of the challenges
4 in health care because health care is driven,
5 decisions are driven by anecdotes, not necessarily
6 by data, and the plural of anecdote is not data, but
7 telling the story is really important, as you say.
8 Telling one person's story that was helped can
9 communicate a lot more than tables and spreadsheets
10 and graphs.

11 DR. FRANK: Yes, point taken, absolutely.
12 We are pleased that we are able to communicate with
13 credibility to the research community as well, based
14 out of the qualitative data.

15 DR. NORQUIST: Leah?

16 MS. HOLE-MARSHALL: I'm trying to reconcile
17 a little bit of the data here with the last
18 presentation that we heard from the payer providers.
19 One of the lowest groups with engagement is the one
20 that is the most invested, using that word sort of
21 generally, in both the success for themselves, in
22 this group.

1 Is there an effort to increase the payer
2 engagement in 2017 before you get to the 2019, these
3 are the outcomes, in your logic model? I hear the
4 discussion about lower back pain and some of the
5 other pieces that have come from discussions we had
6 earlier today around high cost drugs and things like
7 that.

8 My immediate sort of sitting here, if we
9 don't engage that group in this research, the next
10 two years are going to be harder than the last.

11 MS. TROEGER: I wonder if I could just grab
12 that question? Yes, over the last two years, we
13 have had a really enhanced effort to engage the
14 payer and purchaser community as well as the
15 clinician communities. Prior to today, we have been
16 bringing in clinicians, payers and purchasers, to
17 meet with the Board. We have also met with them
18 individually, had several roundtables.

19 One of the challenges is getting the payer
20 and purchasers engaged on individual levels, and I
21 think part of that is because of the challenges they
22 have getting away from what they do during the day.

1 Engaging them is a little bit different
2 than engaging patients, but absolutely, it is a huge
3 commitment that we have made.

4 DR. FRANK: I think the fact that there is
5 engagement in the research projects and then there
6 is attention to different stakeholder groups and end
7 users of the information that is coming out of the
8 work that PCORI funds, so by having these data, we
9 are able to have those discussions and to know.

10 MR. BECKER: One of the things James said
11 on his way out was he previously worked for the
12 March of Dimes, and we got input from the March of
13 Dimes, and before coming here, he actually cross
14 referenced what he sent in versus what we are doing,
15 and he said there was a significant amount of stuff
16 that we are doing that was on that list. We need to
17 encourage them to keep giving us that.

18 DR. SELBY: I just wanted to respond to
19 Kathleen, one of the reasons you see the increase
20 from 7 to 15 percent is because in the last two
21 years, we have started funding big projects. We say
22 big projects must have payer engagement. We didn't

1 have any big projects two years ago to speak of. I
2 think that is a big driver. They can't be involved
3 in every little study, that we require them to be
4 involved in the big studies.

5 DR. NORQUIST: Thank you, Lori and Laura,
6 very much. I'm sure we will have other reports as
7 we go on.

8 Evelyn Whitlock, our Chief Science Officer,
9 will be giving us a report on research synthesis.

10 DR. SELBY: As Evelyn is sitting down, I
11 just want to say to be very clear that we see
12 evidence synthesis and dissemination, the kind of
13 activities that the employers were talking about and
14 others, as just like that, you have to make sure you
15 have the evidence right.

16 Evelyn will be talking today about the
17 evidence synthesis initiatives we are starting, and
18 you have heard and you will continue to hear about
19 dissemination efforts.

20 DR. WHITLOCK: I do have slides, and there
21 they are. I have just a few slides today, and I
22 know I am between you and a break. I'll try to keep

1 it upbeat and interesting.

2 What I'm going to be talking to you about
3 today is an overview of a program we are starting in
4 research synthesis, which is a broad umbrella term,
5 and I am going to focus in on evidence synthesis,
6 which is a subset of what we are doing in systematic
7 reviews.

8 At a high level, I want you to understand
9 that we are looking to focus on producing products
10 that are actionable, that are relevant, that are
11 rigorous, that don't duplicate. There are lots of
12 systematic reviews going on around the world in
13 other syntheses, so we are looking to compliment
14 what is being done and add value.

15 I'll go into a bit more detail about that,
16 but I thought you would want to understand as we go
17 to design this program for PCORI.

18 As you are all well aware, and it was good
19 to be reminded that you went through and looked at
20 the legislation with highlighters, you are aware
21 that the authorizing legislation states evidence
22 synthesis is a core function of PCORI, and that one

1 of the ways that PCORI will assist its many
2 stakeholders in making informed health decisions is
3 by advancing the quality and relevance of evidence
4 through research and evidence synthesis that
5 considers variations in patient subpopulations.

6 It is clear from the get-go that the
7 writers intended both research and evidence
8 synthesis to be part of the products that PCORI uses
9 in fulfilling its mission.

10 It's interesting because this is a very
11 common term, "evidence synthesis," but it is really
12 hard to find a definition for it. Kind of like art,
13 people think they know it when they see it.

14 I think the best definition is that it is a
15 set of methodologies, so it is not just one thing,
16 but it is various methodologies that are used to
17 integrate evidence from variable sources in order to
18 get to a better answer, something that is more
19 comprehensive, something that focuses just on best
20 evidence.

21 We all know that one study is one study,
22 and there are some landmark studies that get

1 produced, but knowledge really generally develops
2 through the accumulative effort of a lot of small
3 kinds of efforts. Even if you have a big study, you
4 still would like to know -- because that big study
5 can't represent all that might benefit from its
6 findings -- you would like to know if that big study
7 is consistent with other research that has been done
8 that is also relevant.

9 It takes us beyond the individual study.
10 It allows us to begin to be more confident about
11 what we know in terms of agreement and disagreement,
12 and allows us to look at those things both
13 quantitatively and qualitatively.

14 Importantly, and you already called for
15 this in the methodology standards, if you are going
16 to not duplicate what has already been done in a way
17 that is unnecessary, then we know where there are
18 true gaps in the evidence.

19 If we are going to be replicating studies
20 because we need further assurance, that's one thing,
21 but if we continue to do the same research because
22 we didn't look carefully to be sure that research

1 wasn't already done, then we are wasting the dollars
2 that are given to us and we are not producing value.

3 If you go back to the evidence synthesis
4 concept, I have laid out here a couple of the
5 different kinds of methodologies that people use,
6 systematic reviews, rapid reviews, decision models,
7 and then even within systematic reviews, I'm going
8 to call out for you different analytic approaches.

9 The kind of meta-analysis that most people
10 are familiar with is really in a more precise term
11 called "aggregate data meta-analysis" or "study
12 level meta-analysis." It is relatively simple to do
13 in that you use the published evidence or you might
14 go and ask for unpublished evidence if you're aware
15 there is work that hasn't been published.

16 You are basically taking the information
17 that has been summarized at the study level, so it
18 is the average treatment effect usually, and you
19 pull that together where it is appropriate.

20 Now, there are other ways of pulling those
21 data together. What I'm going to be talking about
22 in some depth today is the idea of individual

1 participant data, level data. There is network
2 meta-analysis and others.

3 As we begin to go into these various
4 analytic techniques, what we are looking to do is
5 align analytic techniques with the mission of PCORI,
6 particularly to produce evidence that will say what
7 treatment works best for whom and in what
8 circumstance.

9 Let me step back to the research synthesis
10 overview and talk about it as an umbrella term.
11 Think about it as an aggregate of activities that we
12 are doing using tools and methods that synthesize
13 information to create knowledge.

14 We are covering a range of activities with
15 this, even though our legislation calls for evidence
16 synthesis alone, we are also looking at this issue
17 of reusing research data. One of the things that
18 the research community talks about is the fact that
19 we don't get all we could get out of trial data.

20 You are aware the New England Journal of
21 Medicine is sponsoring an opportunity for people to
22 reanalyze the STRIVE data because there are

1 additional things that can be learned.

2 We are very interested in this aspect of
3 evidence synthesis so we can get at exploring
4 variation in treatment, and start to produce
5 evidence that is more personalized.

6 Similarly, we are looking at even as we
7 wait for some of the results to come out from our
8 research investments on individual studies -- we
9 believe there is a value in helping to communicate
10 our portfolio.

11 Beyond the portfolio cluster analyses,
12 which were started before I came, we are starting
13 some mapping of our portfolio, which would
14 communicate some of the lessons learned, as well as
15 help people interrogate our portfolio in real time,
16 even before the results are available.

17 We are starting this in an area for care
18 transitions, so that people will be able to see what
19 are we studying, as well as we are looking at it for
20 community health workers and telemedicine. We
21 believe that will feature some of the key areas that
22 PCORI is making fairly large investments in, in a

1 way that will make more visible -- I think one of
2 the speakers from the employer panel said we can't
3 really figure out what you are doing, help us know
4 what you are doing. I think this will be one way.
5 It will make it quite clear and interactive.

6 Finally, we are looking at other tools.
7 I'm not going to spend a lot of time on the bottom
8 two, either the portfolio synthesis or evidence
9 maps, but I'm happy to come back in the future and
10 talk more about those, particularly as we have some
11 specific examples from our own portfolio.

12 DR. LEWIS-HALL: Can you walk me through
13 the timing, just for clarification. In the specific
14 topic area, you would say okay, what do we currently
15 have for review, then how we would redeploy data in
16 that space, then what is PCORI doing to plug the
17 current holes, and then what are the existing holes
18 that remain. Is that the picture we should expect
19 to get at the end of that?

20 DR. WHITLOCK: No, it's not. All of these
21 are not integrated into one slope. I'll go on and I
22 think it will be clearer. Each of these activities,

1 it's not that they are completely separate, but each
2 of these activities has its own flow.

3 In essence, the evidence synthesis and the
4 research data reuse are opportunities that could
5 happen just through our topic pathway. I'll show
6 you an example with something that came from the
7 March of Dimes. It's not quite as method as you are
8 suggesting, but I will show you how it fits
9 together.

10 In laying this out in a broader
11 perspective, I wanted to focus on three things to
12 begin with, given that it is late 2016. What I
13 wanted to do was first really think about what could
14 we do in the short run that would address
15 heterogeneity of treatment, more personalized
16 individual health care choices. Those are the kinds
17 of things that if we can find robust findings, get
18 them out, they really can make a difference for
19 people right now.

20 We are looking at more rapid deployment of
21 actionable CER evidence. I will show you the
22 details of that. We are looking to update existing

1 comparative effectiveness research reviews that
2 already contain actionable information that are a
3 year or two out of date but could be brought up and
4 then given to our dissemination and implementation
5 arm to produce tools for all of the various
6 stakeholders that are interested.

7 The issue of communication of our current
8 portfolio to make it more visible as people had
9 asked for.

10 I want to say that what we are focusing on
11 right now is really relatively rapid turnaround. We
12 are thinking about what can we get done in a year or
13 two. Even though evidence synthesis is more rapid
14 because most of the evidence is gathered, it doesn't
15 mean it's quick under the kind of time frames that
16 we are operating.

17 We really are focusing even within this set
18 of activities on what can we do rapidly that is also
19 robust. It needs to stand up to very high standards
20 but it needs to get out quickly.

21 That is what it says here. Short-term
22 turnaround, rigorous, relevant, CER or heterogeneity

1 of treatment effect. I am going to do this in two
2 ways, beginning with generating some new research
3 products, individual participant data meta-analysis,
4 and other relatively rapid opportunities to reuse
5 existing research data.

6 Then also as I mentioned, setting up a
7 surveillance system to locate and qualify existing
8 systematic review products that address comparative
9 effectiveness research that have actionable evidence
10 for one or more audiences, and then working to
11 update and disseminate these alongside AHRQ.

12 There is just a quick overview. You have
13 the portfolio, you have the research data reuse on
14 one side, and in the middle, we have surveillance of
15 existing CER systematic reviews, and then the
16 portfolio analysis, mapping, and communication that
17 I'm not going to talk about any more today.

18 Under research data reuse, there are three
19 major categories of work that one could do. One can
20 take the evidence from systematic reviews, go and
21 contact the trialists, gather all of the individual
22 participant level data, and perform robust meta-

1 analyses to get at individual characteristics and
2 drivers of both treatment benefit as well as well as
3 potential harm.

4 One can also in a systematic review where
5 there are a lot of indirect comparisons where we
6 have comparative effectiveness research. We have
7 studied A versus placebo, B versus placebo, C versus
8 placebo, and a little bit of B versus C.

9 You saw earlier the networks that Joe put
10 up. That is another way that we can generate
11 through statistical techniques some series of
12 comparative effectiveness that builds on trying to
13 adjust for differences with indirect comparisons.

14 That can get us some evidence in the lack
15 of definitive evidence in a shorter term, and then
16 pivotal trial predictive analyses. Interestingly
17 enough, PCORI has already funded both the network
18 meta-analysis you saw earlier, as well as pivotal
19 trial predictive analyses.

20 These are clearly in our wheelhouse, but I
21 am looking for us to identify a stream of
22 opportunities here because they can produce

1 actionable -- individualized evidence and
2 comparative effectiveness research without a five
3 year time frame.

4 I am going into this area talking about
5 these reuse opportunities, which I already did.
6 They are not applicable to everything. When would
7 you want to reanalyze data? When is it worthwhile
8 going back and getting all the trial data for
9 individual participant data meta-analysis?

10 It's good when you know or expect there is
11 a range of treatment effects. Interestingly enough
12 in pragmatic clinical studies, because the inclusion
13 criteria are much broader, these techniques become
14 very much more important because we do need to
15 understand across the diversity of participants who
16 benefits the most.

17 It also is very important when we know that
18 you have to go beyond average. We can, as I said,
19 generate relatively rapid actionable results. I
20 think one of the other important parts of this is it
21 gives us an opportunity to generate a relatively
22 unique funding niche for PCORI.

1 It's not going to be a huge area, but it
2 complements the other things we are doing, and right
3 now, we are identifying it as an area of funding
4 that really nobody else is taking on. I think as we
5 move forward in open science that these sorts of
6 opportunities will become more and more important
7 because as data become available, our opportunities
8 to reuse data appropriately and responsibly and to
9 the public good will become even more available.

10 Having funding mechanisms and method
11 standards and analytic techniques in place really
12 puts us in a good position for the future.

13 I'm going to talk a little bit about
14 individual participant data meta-analysis, and I've
15 said that you get the individual level data from all
16 the trials. It is considered to be the "gold
17 standard" of meta-analysis for many, many reasons.

18 You can standardize variables in analyses
19 across studies. One of our limitations when we do
20 study level meta-analysis is we are stuck with what
21 they have reported, and the way they categorized the
22 data, and the way they defined the outcome.

1 If they didn't gather the data, you
2 obviously can't fix that, but you can standardize
3 quite a bit. You can also correct data, so there
4 might be there are data errors.

5 I think the real reason we are interested
6 in it is not just better quality but because of the
7 second area, this is the only way that you can
8 really get to subgroup effects, particularly based
9 on multiple factors.

10 We don't go through life, and I'm a female,
11 and I'm not going to tell you how old I am, but I am
12 a female and I'm in that age group, too, and we also
13 look at subgroups by sex, by age, but not together.
14 As we know, people with multiple comorbidities are
15 an amalgamation.

16 It is a way that you can look at data when
17 you are interested in these multiple factors
18 together, through individual participant data meta-
19 analysis and predictive analytics and that kind of
20 thing.

21 These are really important techniques for
22 us to be able to bring to bear. It gives you a

1 clearer way when you go do a systematic review. We
2 do critical appraisal. You want to make sure that
3 the studies were designed and conducted in ways that
4 don't introduce bias. You can actually do a more
5 accurate risk of bias assessment when you have the
6 individual participant data and information from the
7 protocol.

8 Sometimes there is additional follow up you
9 can do. Also, you can do different analyses. We
10 often have a single time point but with full data,
11 you may be able to do time to event analyses which
12 were not part of the original opportunity.

13 I am going to talk about the surveillance
14 activities that we are undertaking. There are
15 systematic reviewers around the world. ARHQ is one
16 of the biggest producers in the United States and
17 funds the most systematic reviews with a big focus
18 on comparative effectiveness research. They produce
19 a very important body of work. Others around the
20 world also produce some work this way.

21 It's very important, and one of the big
22 challenges in the worldwide producers are not just

1 quality but being able to keep these up to date.
2 These are a lot of work particularly when they are
3 volunteered. It is when they say oh, my gosh, I had
4 no idea how much work this was, and then it is hard
5 to get it updated.

6 Similarly, in AHRQ, who has a real
7 commitment to keeping these updated, it has some
8 limits in its funding. It may have to prioritize.

9 There is a real importance if you are going
10 to bring evidence to decision making, that you are
11 bringing current evidence to the floor.

12 What we are doing here is really filling a
13 niche, servicing the need for up to date information
14 in the public domain around important comparative
15 effectiveness research issues.

16 I have a more detailed screening approach,
17 we will be looking at important topics that are
18 relevant to U.S. health care decision makers. The
19 reviews need to be of a sufficient quality because
20 there is a lot of not very good systematic reviews
21 out there.

22 They need to be really relevant, and

1 particularly they need to have either already
2 produced actionable evidence, it just needs to be
3 updated, or there needs to be the possibility that
4 an update will produce actionable evidence because
5 there is a lot of intervening knowledge from the
6 time the first review is done and now, so we have a
7 good opportunity to get there.

8 We have been told time and again that
9 decision makers can't use a systematic review that
10 says there is no evidence. We don't want to spend
11 any time on those activities at this point.

12 If some of these meet all the other
13 criteria, they are things that our dissemination and
14 implementation arm, which is working very closely
15 with AHRQ, can work on turning into translation
16 products. If they are out of date, they can be
17 updated. We are working with AHRQ right now to try
18 to set up a memorandum of understanding so they can
19 update some of their reviews.

20 I'll close saying this is a quick update on
21 what we are doing as part of the IPD meta-analysis.
22 We are working on a pilot project. This actually

1 came from engagement with the March of Dimes. I
2 have now traveled. Poor me. I had to go to Sweden
3 and London. It was terrible.

4 We met with trialists around the topic of
5 progesterone and pre-term birth. The March of Dimes
6 is involved with this and the National Institute for
7 Health Research is also involved.

8 We are looking at the three of us funding
9 individual participant data meta-analysis that folks
10 like the World Health Organization and others are
11 thinking will be very important in guideline
12 development. It certainly will help to figure out
13 who benefits from this treatment in this very
14 important condition.

15 As part of this we are doing some really
16 exciting work establishing governance standards and
17 funding streams for this type of work. We have
18 worked carefully with the trialist community, and
19 have set up a structure that we are very excited
20 about.

21 As Robin said, we have asked the
22 Methodology Committee to help us look at producing a

1 new methodology standard so all of this work can
2 move forward with an established methodology
3 standard. We are starting to do surveillance, as I
4 mentioned. As we get into understanding the
5 opportunities that we have, we will look at
6 integrating them within our topic pathway.

7 Sometimes the next right answer, and I
8 think the IPD meta-analysis example is prime,
9 sometimes the next right answer is not another
10 trial, it is not an observational study, it might be
11 a systematic review or it might be something like an
12 IPD meta-analysis. I feel like we are at the right
13 point with the right answer for this particular one,
14 which makes it very exciting.

15 Finally, we are looking for other potential
16 opportunities and how to establish a pipeline for
17 some of these more novel kinds of activities.

18 I will stop there and see if there are any
19 comments, questions, concerns, and look forward to
20 hearing from you. Larry?

21 MR. BECKER: Two things. I wish our
22 panelists who were just here had stayed and listened

1 to this. The second question, I'm not sure I
2 understand how this works, so I'm going to ask this
3 question.

4 Are you planning to publish a book of
5 actionable findings, Volume 1?

6 [Laughter.]

7 DR. WHITLOCK: Good idea. I wish. What we
8 are planning to do is we are planning to get those
9 to Jean and Joanne in the dissemination and
10 implementation area so they can take all of this
11 valuable information we got from stakeholders about
12 how they want to see these things and get it out
13 there. We hope the book is disseminated at the
14 point of care and point of decision-making.

15 DR. NORQUIST: Barbara?

16 DR. McNEIL: That was very interesting.
17 The last point, I think, is a critical one,
18 identifying projects that can go forward that will
19 have the individual patient data available. Do you
20 have any sense of a list of those and what
21 investigators will give you the individual patient
22 data?

1 I ask this specifically because I know Blue
2 Cross has tried on a number of occasions to get
3 these data, and it's really very, very difficult.

4 DR. WHITLOCK: I understand. I think one
5 of the interesting and fortuitous situations for the
6 first one we are working on is the willingness of
7 the trialists internationally to bring this data
8 together. I believe it is 39 or 40 randomized
9 control trials.

10 DR. McNEIL: I was thinking of the new
11 ones.

12 DR. WHITLOCK: The new ones, I would like
13 to talk to you about that a little bit in the
14 future. I do have some ideas about how we can set
15 up a structure, but I need to work it through the
16 SOC first.

17 I have outlined on the white board in my
18 office how we can set up a pipeline for these,
19 because I do believe there is a way to do that, and
20 I believe it is an important thing for us to do, and
21 we should push forward with it.

22 DR. McNEIL: I think one of the things that

1 we found, very few investigators are willing to give
2 out individual patient level data, and when they
3 are, it takes an incredibly long time negotiating
4 information with all of the participants that
5 collected the data, and then getting all kinds of
6 data use agreements and whatever.

7 While I think this is extremely important
8 and it would be wonderful to do, the speed with
9 which you would have to go forward on this to have
10 actionable results to meet some of the concerns of
11 our prior panel would be like lightning.

12 DR. WHITLOCK: Let me give you the time
13 line for the progesterone and pre-term birth.

14 DR. McNEIL: I was thinking of the next
15 one.

16 DR. WHITLOCK: I think the other thing we
17 are working on out there in terms of the governance
18 standards, we went to London, we went to Sweden, and
19 they were very nice, but they didn't really know who
20 we were. They knew us a little better, and then we
21 went to London. We got drilled pretty well by the
22 trialists about what we were proposing.

1 We proposed a structure, a set of
2 governance standards and structure, that would allow
3 minimalization of conflict of interest, but
4 participation with the trialists in a way that the
5 trialists agreed would be worthwhile.

6 I think the other benefit we have in this
7 particular group is you have a lot of people who are
8 very committed to this topic and are willing to plow
9 the field. The feeling at the meeting, and again,
10 these were trialists, folks from NIHR, folks from
11 the March of Dimes, was we were setting out a
12 template that might be reproducible in other kinds
13 of situations.

14 I believe the tide is with us. We are
15 moving into open science. I believe getting a test
16 case is a really good thing to do, getting a
17 governance structure that seems fair and equitable,
18 and then hopefully it will all align. I take your
19 point, it can be challenging.

20 DR. NORQUIST: Andrew?

21 DR. BINDMAN: Thanks so much, Evelyn, very
22 nice overview. I just wanted to maybe share a

1 little bit with other members of the Board that I
2 really have appreciated both your calling out and of
3 course, your direct knowledge of the historical work
4 that AHRQ has done in this area, and thank you and
5 PCORI staff for finding ways to work in alignment
6 with AHRQ around the work on comparative
7 effectiveness and systematic reviews.

8 I think this is very important both in
9 terms of expanding the capacity of what can be
10 reviewed, but also to make sure that there isn't
11 confusion. We don't want to add multiple places of
12 confusion where users of this information are
13 uncertain about where to go and find it. I think
14 bringing alignment is really helpful in the ways you
15 are pursuing it.

16 I think we will have to continue to try to
17 -- it is important, I think, to continue to try to
18 work on this alignment together because as many
19 know, AHRQ has had questions raised about
20 redundancies in different areas, working with PCORI
21 or others, so we want to make sure we do stay in
22 alignment.

1 I think the way you have identified working
2 together looks very positive in that regard, but I
3 think this is an area of continuing discussion that
4 needs to happen because if there are issues where
5 PCORI and AHRQ are not aligned around doing these
6 kinds of reviews, then I think AHRQ would also have
7 to evaluate its capacity to continue to work in that
8 area.

9 It would just have a net impact on the
10 capacity of being able to do this from AHRQ's
11 perspective, and I just want you and others who have
12 talked about this to appreciate that. I think it
13 works very well in the way you have discussed, but
14 it is something we are going to continue to evaluate
15 along with you and appreciate the work you have done
16 so far to try to bring that into alignment.

17 DR. WHITLOCK: Joe, did you want to make
18 any comments?

19 DR. SELBY: Just I think, Evelyn, to
20 acknowledge that we agree with Andy's analysis that
21 we need to be able to explain clearly and with one
22 voice how we work together to avoid duplication, how

1 we complement each other, avoid redundancy, and both
2 work for the same goal of getting evidence gaps
3 filled.

4 I think we have all worked in good faith,
5 and there are some challenges that we will have to
6 keep an eye on as we go forward.

7 DR. NORQUIST: Bob?

8 DR. JESSE: Getting to the spirit of open
9 data but really being able to do that drilling down
10 to the patient, how much are the issues around
11 identification?

12 DR. WHITLOCK: In the previous individual
13 participant data meta-analyses that have been done,
14 obviously the identified data had to be provided. I
15 think that has been part of the data use agreements.
16 Are you asking how much those procedures have
17 created some of the delays? Maybe I'm not
18 understanding.

19 DR. JESSE: I should have maybe put it in
20 context. We are having a lot of issues with our
21 ethics people about sharing even de-identified data
22 that wasn't specifically part of a front-end

1 consent, because of the question about can one
2 really and truly de-identify data.

3 DR. WHITLOCK: I think that is a very
4 interesting question. I think it is a little bit of
5 two separate issues. Do you need to separately
6 consent. I think Barbara alluded to that, which is
7 going to be an issue across any kind of open science
8 aspect.

9 Second, in terms of identification, the way
10 that we are working now is the data will be held by
11 a methodology group, and it won't be put in the
12 public domain.

13 I'll be clear, that the National Institutes
14 for Health Research is interested, once you bring
15 data together, to do an individual participant data
16 meta-analysis, and once you harmonize those data and
17 standardize them, they would like to have them
18 voluntarily put into a repository so you would have
19 living data and as more trials come out, you would
20 actually be able to update the analyses.

21 NHR will potentially fund that data
22 repository opportunity but it won't be a requirement

1 for people to be willing to provide their data in
2 this limited set and in a constrained and controlled
3 environment.

4 DR. NORQUIST: Alicia, if you could make it
5 quick.

6 DR. FERNANDEZ: Very quick question. I'm
7 curious, following up on what the panelists before
8 said, whether we had any discussions with the people
9 on up to date or other informatics, things that are
10 already woven into informatics so as to be able to
11 rapidly go from evidence synthesis into something
12 that people can read, particularly at the same time
13 or right after the peer review.

14 DR. WHITLOCK: That would be a good thing
15 to talk about with the dissemination center. Maybe
16 they have been talking about it, I'm not really
17 sure. Jean can answer.

18 MS. SLUTSKY: We have been talking with
19 many different massagers of data, sort of secondary
20 packaging of data. That is ongoing right now. We
21 actually have a translation center that encompasses
22 a lot of experts in this field, through a variety of

1 agreements and subcontracts.

2 DR. NORQUIST: Thanks, Evelyn. We are
3 going to take a 10-minute break. We have two things
4 we have to approve, and public comments.

5 [Recess.]

6 DR. NORQUIST: Why don't you start?

7 DR. SELBY: We're broadcasting again, and
8 I'm going to assume some Board members are still
9 standing but they are listening attentively.

10 This is a discussion that has been going on
11 for a long time. You will remember other versions
12 of it at Board meetings before. For the last six to
13 nine months, we have been talking about it really
14 quite regularly at the RTC, and with the RTC and
15 also with -- actually, both Steve Goodman and Harlan
16 Krumholz are on the RTC officially.

17 Within the RTC, we have advanced the draft
18 policy, PCORI's draft policy on data sharing to the
19 point that we believe, and members of the RTC, I
20 think, believe with us, I know Harlan and Steve
21 particularly are anxious to get this out for public
22 comment, so I want to introduce Jason Gerson, who

1 you know.

2 I want to introduce him in order in part to
3 thank him for his hard work on this, and I also want
4 to mention Nadine Peters from our Legal office, who
5 has also played a lead role in getting this to this
6 point.

7 I will just say this, and Jason will say
8 this, too, this is a sticky area. We really are not
9 that anxious to go way, way out to the end of the
10 limb, so this is a policy that has at least some
11 questions still unanswered, but we are anxious to
12 get it out and get a sense of the community, and
13 bring it back to you after we have incorporated
14 those comments.

15 Thank you, Jason.

16 DR. GERSON: Thank you, Joe. Before we go
17 much further, I just want to also acknowledge the
18 rest of the open science work group that is
19 comprised of six other PCORI staff members across
20 science and some other departments that have been
21 instrumental in advancing this work, too.

22 Freda, did you want to make any remarks?

1 Freda has had an instrumental role leading the RTC
2 through this.

3 DR. LEWIS-HALL: Just really quickly, I
4 want to contextualize this. You all heard a little
5 bit this morning, we discussed and answered
6 questions, and heard a little bit about what is
7 happening in open science from PCORI's standpoint.
8 These are things that are pretty much underway at
9 this time.

10 What we are really talking about now is
11 putting out for comments what I'm going to call a
12 potential next step or potential next opportunity to
13 move that step one step beyond where we are today.

14 How do we make the datasets, the study
15 protocol, and other elements' potential to be used
16 in an open science environment. I think what we
17 talked about this morning is kind of -- Joe is
18 calling it a "limb," I like to think it is a runway,
19 that we are out on the runway now with some
20 important open science opportunities. This is
21 getting thinking and input on the potential next
22 steps.

1 Let me say again thank you, because this
2 has been a lot of work I know for the staff and
3 getting the input and collecting. Thanks to all
4 that have given input inside PCORI staff, on the
5 Board, both the RTC and SOC, and other members who
6 have a passion around this, as well as others that
7 have given us input and insight to help move this
8 along.

9 DR. NORQUIST: Thank you, Freda.

10 DR. GERSON: I'll just walk quickly through
11 a brief number of slides. The main objective of the
12 draft policy is really to set forth PCORI's
13 expectations and guidelines for our research
14 awardees, for the management of their data, for two
15 main purposes.

16 One is to facilitate reproduction of
17 original analyses, and the other is to promote data
18 sharing to enable conduct of additional analyses
19 using data from PCORI funded studies. We imagine
20 the latter is where most of the action will be. I
21 don't know how much desire or intent there will be
22 to fully reproduce PCORI funded studies, we shall

1 see.

2 The draft policy was developed by PCORI
3 staff. We have had input from an expert advisory
4 group, as well as from the RTC, over the last
5 several months. We have also engaged in discussions
6 with some other funders and regulators of clinical
7 research, and we have received in the last month
8 some detailed comments on the draft policy from NIH,
9 the version that was shared with all of you.

10 Just hitting some of the key highlights of
11 the draft policy, the main intent is for PCORI
12 funding to support the deposition of data as well as
13 data documentation. This would include the study
14 protocol, the metadata, and the analytic code.

15 For studies funded through the pragmatic
16 clinical studies mechanism and the targeted funding
17 announcement mechanisms, it will include a
18 requirement for all studies to prepare data for data
19 sharing with funding provided by PCORI for
20 deposition in the data repository on a case-by-case
21 basis.

22 We are starting by focusing on some of our

1 larger investments with the idea that as the results
2 roll in, they are of interest to the scientific and
3 research community, we will be prepared to fund data
4 sharing for those other studies as well.

5 In this draft policy, we have articulated a
6 requirement to maintain the data in a repository for
7 a minimum of seven years, and we will support that
8 through at least a seven-year period, depending on
9 where we land with the final draft policy.

10 You will see, the policy by design is
11 somewhat thin on the operational details. That is
12 by design. We feel we still have a lot to learn.
13 We want to learn from the public through the public
14 comment period, and as I mentioned before, we are
15 engaging a pilot project in which we will bring
16 together a number of our awardees, six or seven of
17 our awardees, including some pragmatic studies, with
18 some data repository organizations that run
19 repositories and data sharing platforms.

20 The goal of that pilot is really to do some
21 learning about the key challenges and opportunities
22 with getting their data and data documentation into

1 the repository and ready for data sharing with third
2 party researchers. That is the pilot project.

3 We are in the process of evaluating the
4 proposals from the repositories. We imagine by the
5 time we get done with negotiating with the finalists
6 for that role, launch the pilot, late 2016 or early
7 2017, and the pilot will last -- we don't envision
8 it will last more than three months.

9 That is what we planned for, a three month
10 kind of engagement between our awardees and the
11 repositories should allow us to do the learning we
12 need to do that will inform the next version of this
13 policy.

14 Pending your approval today, we will plan
15 for a 45-day comment period for the draft policy.
16 We feel it is adequate time for the public to weigh
17 in, and we will advertise and notify the public in
18 various ways that the policy has been posted for
19 comment.

20 We have also developed an open science work
21 group joint with some input from the RTC on
22 developing targeted questions that will focus the

1 public's attention on a number of important issues
2 related to the policy. Those questions were shared
3 with you.

4 They include a question about the
5 appropriateness or the length of the retention
6 period, the qualifications and credentials of the
7 people who are requesting data, and kind of what
8 represents reasonable data repository standards, at
9 a minimum, what kind of attributes should those
10 repositories or platforms have to be acceptable to
11 PCORI organizationally.

12 Of course, we will ask the public for their
13 comments on different consent models that are
14 related to the policy.

15 We sent those questions to you in the hopes
16 that they may have prompted some more thinking or
17 additional questions. We will have to incorporate
18 those into the public postings.

19 I'll stop here and take any questions or
20 comments.

21 DR. NORQUIST: Rick?

22 DR. KUNTZ: I think this is a really

1 important initiative for PCORI. I was wondering,
2 there are several entities trying to do the same
3 thing, understanding how to operationalize the data,
4 one of which is the National Academy of Medicine.
5 In fact, they have a meeting this week on
6 operationalizing open science.

7 The other is the National Evaluation System
8 for Health Technology that the FDA has initiated
9 called NEST. That is going to be a process to
10 understand how to operationalize data sharing
11 perspectives, working with J&J to actually do the
12 operational component of that, they have a very
13 slick system of managing the data and putting it
14 into a form that can be shared.

15 Of course, Harlan's program, YODA, has done
16 more of this probably than anybody with respect to
17 actually sharing the data publicly.

18 How do we get that kind of experience
19 together because there are a lot of lessons we can
20 learn from those entities.

21 DR. GERSON: We are mindful of many of the
22 things that you mentioned. I think for us as a

1 funder, we want to try to get our head around both
2 some of the operational challenges of what it means
3 to get your data managed properly so it can be
4 deposited in a timely way.

5 I think the pilot is only going to involve
6 a very small number of repositories, but the goal
7 there is to do some key learnings, not just about
8 the features and governance models of those
9 repositories, but to figure out what attributes are
10 most important for us, and then on the back end of
11 the pilot, we will be kind of engaged in doing
12 another procurement for the broader data sharing
13 community.

14 Our goal here is to land on probably a
15 selected number of repositories that we recommend to
16 our awardees, anecdotally what we have heard is our
17 awardees would like us to be a little prescriptive
18 and to direct them to certain repositories, so we
19 will have to do some more learning first. We are
20 not doing this in a vacuum. We are mindful of the
21 NIH model, Harlan's work, obviously. We won't go
22 too far afield without being involved with those.

1 DR. NORQUIST: Larry?

2 MR. BECKER: So, maybe I missed this.
3 Three questions. Who owns the data? Assuming that
4 we own the data, what's the retention strategy for
5 this and who decides under what circumstances and
6 for how long?

7 MS. HENNESSEY: Excuse me. One question on
8 the data, PCORI does not own the data for the
9 research that it funds. From the very beginning of
10 PCORI, the research institutes own the data. We
11 actually have taken very careful steps at least in
12 the pilot, we don't want as an organization to house
13 the data ourselves, that requires highly
14 sophisticated systems and platforms to do that.

15 I just want to make sure it is understood
16 that based on PCORI's long-standing model from its
17 inception, the data is not owned by PCORI. As a
18 funder, we can and are intending to include
19 requirements about what should be done with the data
20 to make it available, but this is what the pilot is
21 about and getting the draft policy out for comments.

22 DR. GERSON: Thank you, Mary. As far as

1 the governance, what the adjudication process would
2 look like, that's something we will also learn from
3 the pilot, and probably we will kind of work with
4 the repositories we end up selecting about how those
5 requests are adjudicated, whether they constitute
6 requests from clinical qualified investigators, and
7 whether the inquiry itself represents a reasonable
8 scientific request.

9 Organizational, as Mary said, we are
10 trying to position ourselves to encourage our
11 awardees to make the data available but also not put
12 too firm a footprint on how those requests are
13 ultimately adjudicated.

14 DR. NORQUIST: Mary, do you have a follow
15 up?

16 MS. HENNESSEY: No.

17 DR. NORQUIST: Mary, I assume as part of
18 the contract, we have the right to ask the
19 contractee for certain things; right?

20 MS. HENNESSEY: Yes, we can use our funding
21 contract, for example, for several years we have
22 required our recipients to have a data management

1 and sharing plan. That followed on a long-standing
2 requirement in our PSA, that our applicants be
3 developing a data management and sharing plan.

4 The tools that a funder has at its disposal
5 like PCORI to move forward and encourage its
6 recipients to advance its ability to share data
7 don't have to depend on the funder owning the data,
8 so that are the steps, I think, that are being taken
9 right now.

10 DR. NORQUIST: Do you have another slide?
11 I thought there was a motion.

12 DR. GERSON: There is a motion. I am
13 sorry.

14 DR. NORQUIST: We need a motion.
15 Basically, what we are doing is just approving the
16 posting for public comment. Do I have a motion?

17 DR. GOERTZ: So move.

18 DR. NORQUIST: Second?

19 DR. JESSE: Second.

20 DR. NORQUIST: Any other comments or
21 discussion about this motion?

22 DR. ZWOLAK: Just to point out there has

1 been lots of active discussion about this in the
2 journals, including the New England Journal last
3 week, an article labeled "Is the Juice Worth the
4 Squeeze." I think the information that we derive
5 from public comments may well be telling.

6 DR. NORQUIST: We have to do a roll call
7 vote. I don't know why, since we can see everybody.

8 DR. COLLINS: You can't see me, but I vote
9 yes.

10 MS. HENNESSEY: Gray, you're not committing
11 money, so I think it is fine to do a voice vote or
12 hand vote.

13 DR. NORQUIST: Hand. Everybody in favor,
14 just raise your hand.

15 [Show of hands.]

16 DR. COLLINS: I'm raising my hand.

17 [Laughter.]

18 DR. NORQUIST: Okay. Thank you, Francis.
19 I don't think Allen is on the phone. He dropped
20 off. I didn't see anybody that didn't raise their
21 hand, but just in case if I missed someone, is
22 anybody opposed?

1 [No response.]

2 DR. NORQUIST: Does anybody abstain?

3 [No response.]

4 DR. NORQUIST: Okay. It's unanimous.

5 Thank you.

6 The next one is Evelyn. Topic for
7 Sequential Targeted PFAs, Back Pain. Since we all
8 probably have back pain after sitting here all day
9 long, Christine, we may need some manipulation or
10 something.

11 DR. GOERTZ: I'll be glad to tell you what
12 the research shows on that.

13 DR. NORQUIST: Evelyn?

14 DR. WHITLOCK: Bob, do you want to make any
15 introductory remarks?

16 DR. NORQUIST: I'm sorry. Bob Zwolak, who
17 is the chair. This came down to the SOC; right?

18 DR. WHITLOCK: It did.

19 DR. ZWOLAK: Thank you. My comments will
20 obviously be brief. We're going to talk today about
21 the concept of sequential targeted PFA, which is an
22 outgrowth of our learning and distinct from the

1 motion we passed a couple of meetings ago for
2 reannouncements of established PFAs.

3 The former reannouncements will be the
4 exact same as the initial announcement, potentially
5 with very subtle changes if we have answered a
6 question or two on the original. Sequential is a
7 product of our learning experience, and is
8 relatively a new concept.

9 With that very brief introduction, Evelyn,
10 you're on.

11 DR. WHITLOCK: I want to thank the SOC,
12 many of the members and actually others on the
13 Board, who helped us work through this particular
14 targeted funding announcement. I'm very grateful
15 for that kind of help, thank you.

16 Just to remind you, I know this is very
17 small, but we go through a process that includes a
18 lot of stakeholder input, a lot of refinement,
19 development, at various points at which something
20 can come out of the pathway.

21 When we get to the bottom of this -- this
22 process, I believe, I've been told, it takes about a

1 year, when we get to the bottom of this process, we
2 end up with targeted funding announcements or
3 pragmatic clinical studies.

4 We are looking at getting more bang for our
5 buck out of the investment that we make in this
6 process, and the target is putting out additional
7 targeted funding announcements in areas like low
8 back pain is an example of that.

9 I think you have seen this previously
10 because we have issued several funding announcements
11 in opioids, and they came out of the same pathway.
12 This is building on a concept that you have seen
13 before that we think makes sense to generalize.

14 Let's go back and look at the history of
15 this topic within PCORI. This was identified by you
16 as a high priority topic in December of 2012, and it
17 has come up through a number of our engagement
18 activities with the Americas Health Insurance Plans,
19 with the National Business Group on Health, and
20 certainly with the American Physical Therapy
21 Association.

22 I think you heard in the employer panel

1 that chronic low back pain would be a priority. I
2 wish they would have stayed for the afternoon
3 because maybe they would have liked to hear this.

4 We have had a number of stakeholder
5 workshops. The first was in March of 2013, in which
6 we had a webinar looking at treatment options for
7 back pain. We had a prioritization meeting in June
8 of 2015 looking at comparative effectiveness
9 research questions for treatment options focusing in
10 on chronic low back pain. In January of 2016, we
11 reconvened the group to get further input.

12 We actually have had a low back pain topic
13 listed as part of our priority pragmatic clinical
14 studies listing. This has actually made it into
15 both a targeted funding announcement and a priority
16 clinical studies area. There are slightly different
17 focuses.

18 The one that is in the pragmatic clinical
19 studies priority topic is a topic that focuses on
20 preventing transition, so folks that have acute low
21 back pain, you'd like to not have them go into
22 chronic low back pain because that's where much of

1 the morbidity and long-term treatment is, et cetera.
2 Being able to deal with preventing that transition
3 is obviously very important for patient-centered
4 outcomes for insurers, et cetera.

5 That particular announcement has been up in
6 a number of sessions, and we funded a couple of
7 studies in that area.

8 In terms of targeted funding announcements,
9 we did put out a targeted funding announcement that
10 you approved in March 2016. It was opened in April.
11 We received five LOIs. We invited four and two
12 applications were received. We hope to announce
13 awards in January 2017.

14 This is a very focused targeted funding
15 announcement. This is looking only at the
16 comparison of lumbar fusion surgery versus optimized
17 non-surgical multidisciplinary programs in patients
18 who are candidates for surgery and have non-
19 specific, non-radicular chronic low back pain.

20 It's a very specific targeted question. It
21 is one that is completely adherent with some of our
22 stakeholder interests.

1 What you are going to see today is there
2 are a lot of other questions that other stakeholders
3 have, and that are important evidence gaps in our
4 knowledge about how best to manage chronic low back
5 pain, and that is why we would like to issue another
6 targeted funding announcement.

7 This is more of the rationale. This is a
8 high burden disorder in the U.S. It affects
9 somewhere between 5 and 10 percent of adults, and it
10 accounts for a lot of the costs borne by low back
11 pain. I think it would account for all of it. The
12 chronic is accounting for a lot of the costs. Sorry
13 about that. The costs associated with this is
14 really around the management of those with chronic
15 rather than acute low back pain.

16 I mentioned our previous targeted funding
17 announcement, and I mentioned that we had this as a
18 priority clinical study, but we have gotten two
19 studies thus far that look at that transition,
20 certainly haven't even covered the waterfront in
21 that area, but we do have two studies in that area.

22 We continue to hear from stakeholders, and

1 we saw a recent 2016 systematic review that
2 confirmed our belief that there are many important
3 evidence gaps that remain that could be important to
4 close to improve care in this area.

5 This is a synopsis of the systematic review
6 done by Chou, et al, looking at the research needs
7 that remain. The point this review made is that
8 although we have recommendations and guidelines for
9 low back pain, only a small number of those have
10 moderate strength of evidence to support their use

11 This is one of the most vexing areas for
12 clinicians and plans and payers, it is uncertain
13 what combinations of therapies are the most
14 effective or sequences. We get asked this question
15 a lot. What should we do in sequence, what are the
16 best ways to put these things together. This was
17 called out looking at both pharmacologic and non-
18 pharmacologic interventions as a need and certainly
19 an evidence gap.

20 It was also called out in this review that
21 there are specific subgroups that we are uncertain
22 about whether the benefits differ.

1 This came out when we were talking to the
2 primary care clinicians about the importance of this
3 topic, and they said yes, we have specific issues
4 around people that are also obese and how you manage
5 low back pain most effectively with them. We have
6 issues with older adults because of multiple
7 medications. We have issues with people who are
8 working age and who have manual jobs, these are
9 complicated. There are some subgroups that are
10 important to think about.

11 As with many conditions, there is not a lot
12 of information on longer term follow-up or the kinds
13 of outcomes that the employers called out today,
14 besides pain and function, ability to return to
15 work, return to pre-morbid function quality of life.

16 There are a number of guidelines, some of
17 them are being updated. The guidelines to date have
18 generally focused most on the management of acute
19 rather than chronic low back pain. Mostly when they
20 do talk about chronic low back pain, it is sort of
21 like a menu of options, many of which don't have
22 very strong evidence, at least in the synthesized

1 format, and without much evidence on how to sequence
2 or combine.

3 This is just an illustrative. This is not
4 the state of the science, so I don't want you to
5 think it is. It just illustrates to you the
6 disconnect between what was recently summarized in
7 the Chou systematic review and what's recommended.

8 On the left are the interventions that
9 within the Chou systematic review have at least
10 moderate strength of evidence, pharmacologic and
11 non-pharmacologic, and on the right are the
12 treatments for low back pain, and the most current
13 guidelines from the American College of Physicians
14 and NICE are recommended.

15 You can see the green is ones that in the
16 Chou review had insufficient evidence or evidence of
17 no effect, and the low strength of evidence is those
18 that have some evidence of benefit, but it's not
19 very convincing.

20 You can see there are gaps in this
21 evidence, and there is a gap in what clinicians have
22 to bring to bear on these issues.

1 I will say one other disclaimer, and that
2 is this is one systematic review. This is not the
3 state of the science on any of these conditions.
4 This is a recent systematic review, and certainly
5 further indicates the need for better evidence.

6 The final thing I will say is you will
7 notice even where there is moderate strength of
8 evidence, look to the left, exercise therapy is not
9 something you can implement in your office that you
10 can cover with any sort of specificity that you can
11 recommend. Similarly, with acupuncture.

12 One of the things you will see in our
13 targeted funding announcement is we are going to be
14 asking for a much greater sense of specificity, so
15 we know what is being proposed to be studied and why
16 there is evidence that should be a good alternative.

17 In setting this up, we looked at
18 ClinicalTrials.gov. There are 19 open or active
19 trials. You can see the range of different
20 activities they are looking at. Eight of these 19
21 are comparative effectiveness research, a number of
22 them are head to head trials of medication. There

1 are some that are various combinations of therapy.

2 There is one that I bet is having no
3 trouble recruiting, the third from the bottom,
4 Cannabis versus Oxycodone. I bet they don't have
5 recruitment problems.

6 None of these -- they are looking at
7 various combinations but none of them are looking at
8 optimal sequencing and few of these are evaluating
9 the commonly used or recommended combinations.

10 Our proposal, and I will say the SOC did
11 approve this proposal, I think, with a lot of
12 enthusiasm, is what is the comparative effectiveness
13 of combinations and/or sequences of non-invasive
14 interventions for patients with non-specific, non-
15 radicular chronic low back pain.

16 We are taking this approach by specifying
17 the PICOT, and it's a little different than some of
18 the targeted announcements we have done before where
19 we have just gone to one question.

20 We are saying that we are interested in
21 patients with chronic low back pain defined in one
22 of two ways, and these are the ways they are usually

1 defined in the literature. We are interested in
2 heterogeneity, treatment effects among these patient
3 subgroups in whom there is a priority, either
4 evidence of difference or something stakeholders
5 have told us they believe there are potential
6 moderators of treatment effects, or investigators
7 can propose another important subgroup if they have
8 an accompanying strong rationale.

9 We are not looking for data dredging, we
10 are looking for priority indications that you would
11 expect treatment modifications.

12 The intervention and comparators are
13 combinations or sequences that are either in common
14 use or have adequate evidence of efficacy or
15 effectiveness, and we have called out ones that of
16 interest but are not limited. We are not limited to
17 these.

18 Active physical therapy modalities,
19 complementary and innovative health, non-opioid
20 pharmacologic interventions. We already have quite
21 a bit of work going on in opioids, and opioids are
22 not really recommended for chronic low back pain, so

1 we are specifically excluding opioids from this
2 funding announcement.
3 Multidisciplinary/interdisciplinary rehabilitation
4 programs.

5 As I said, the comparators, if they involve
6 something like exercise therapy, acupuncture, or
7 yoga, they need to be adequately operationalized,
8 and the proposed operationalization must align with
9 the available evidence, so you can't say you did a
10 study over here and they used some exercise thing
11 and then we are going to do exercise over here, but
12 there is no connection between them.

13 We want to be sure because patients enter
14 into back pain treatments from a variety of ways.
15 They can come in through a chiropractor. They can
16 come in through massage therapy. They can come in
17 through their primary care doctor. We want to be
18 sure that the combinations or sequences of
19 interventions that are tested address actual
20 clinical choices that would be faced by patients,
21 caregivers, and clinicians in specific practice
22 settings.

1 Otherwise, you could just have somebody
2 taking an A and a B and throwing them together, and
3 it is really not going to help.

4 We are asking for a minimum set of
5 outcomes. I'll be talking to you more about moving
6 towards asking for more core outcome measurement
7 across our portfolio, because I think that is a
8 smart way for us to go as funders.

9 Here, what we are doing is we are saying we
10 are interested in at least a measurement of
11 function, pain, quality of life, return to work or
12 premorbid function, and health care utilization.

13 We are trying to make sure that we get the
14 measures that meet the needs across a range of
15 stakeholders, and we are asking for outcomes that
16 are up to and beyond 12 months if possible.

17 We have set forth an amount of \$50 million
18 in total costs that we suggest be made available.
19 This would fund somewhere around three to four
20 studies at a total direct cost of \$10 million a
21 study, with a maximum project period of five years.

22 The SOC voted on this and approved it on

1 October 4, and I'm bringing it to you today. I'll
2 turn it back over to Gray for discussion, questions,
3 et cetera.

4 DR. NORQUIST: Let's open it up for
5 discussion.

6 DR. COLLINS: Can I ask a question?

7 DR. NORQUIST: I'm sorry, Francis.

8 DR. COLLINS: I'm glad to see the creative
9 aspect of the study, but I must be missing something
10 because when I see you have listed four possible
11 interventions but there are probably going to be
12 others, and within those four, there are various
13 options like acupuncture versus spinal manipulation.

14 It quickly adds up to a very large number
15 of possibilities here in terms of what these
16 interventions might be, making me wonder how will
17 the potential very long list be shortened, and if
18 you don't shorten it substantially, have sufficient
19 power to actually know what works? I must be
20 missing something here, because it seems like you
21 have a huge number of options that would be on the
22 table.

1 DR. WHITLOCK: I think it's a great
2 question. We are asking that the potential options
3 actually be things that have previous evidence of
4 efficacy, are logical combinations or sequences in a
5 specific practice setting, but we believe at this
6 point in time, as you saw from the number of
7 different treatments that are now in guidelines and
8 the disconnect with the evidence that is available,
9 that this is one of the situations where we need to
10 see what comes back from the field because there is
11 so much missing and there is no way to prioritize
12 specific combinations or sequences at this point.

13 That is my answer. I think Leah and/or
14 Christine or others that have worked on this may
15 also want to add in.

16 MS. HOLE-MARSHALL: I think that is
17 correct.

18 DR. COLLINS: Would you ask each applicant
19 to pick just one sequence of interventions or are
20 they going to be saying we are going to try six
21 different ones, and you have two or three other
22 applicants who are trying a different set. I'm just

1 worried about heterogeneity here.

2 DR. WHITLOCK: No, I understand. Just to
3 be clear, at this point in time, we wouldn't
4 necessarily have three different trials that would
5 look at the very same thing. We're not necessarily
6 going to have that.

7 If we do have the same measures, and one of
8 the things we have talked about, I don't know how
9 feasible it is, at least on the table is the idea
10 that -- sorry. If we ask people to do a common set
11 of measures, function, pain, quality of life, return
12 to work or pre-morbid function, and health care
13 utilization, between the time of the Board's
14 decision to fund certain things and us awarding the
15 contracts, we may be able to bring those all into
16 common measurements, which would give us more power
17 to work with the results even if there is some
18 diversity.

19 DR. COLLINS: Would you consider adaptive
20 trial designs?

21 DR. WHITLOCK: Certainly.

22 DR. COLLINS: Why couldn't PCORnet be an

1 applicant?

2 DR. WHITLOCK: Well, they could.

3 DR. NORQUIST: They could, of course.

4 DR. WHITLOCK: They could, absolutely. I
5 think the other design that might be good is one of
6 the smart designs, where you have a sequence and you
7 are randomizing it as people fail. We are hoping by
8 asking for sequences that people will bring the
9 latest design approaches into play.

10 Christine?

11 DR. GOERTZ: Evelyn, are you planning to
12 use the minimum dataset for chronic low back pain
13 that the NIH's advisory panel recommended for the
14 study of low back pain?

15 DR. WHITLOCK: Are you talking about
16 outcome minimum dataset or the characteristics of
17 the participants?

18 DR. GOERTZ: It actually included both.

19 DR. WHITLOCK: We have asked for some of
20 the outcome measures that were called in that
21 dataset. The participant requirements are pretty
22 extensive. We have not incorporated that at this

1 point because they are quite extensive. I am happy
2 to talk about that more.

3 If the Board approves this today, we would
4 have until January to actually put the targeted
5 funding announcement together, so we can work on
6 that if that is something you think is important.

7 DR. GOERTZ: I do think it's important.

8 DR. NORQUIST: Gail?

9 MS. HUNT: Can I just ask why we need to
10 make this a five-year study? If you're talking
11 about getting an RFP out in January, and then
12 usually it takes us a year before we award. That is
13 2018. Then you are talking about a five-year study.

14 DR. WHITLOCK: This is the maximum, and
15 certainly -- I don't think, just to make a minor
16 correction, if the award is made in January, we
17 should be able to execute a contract within a matter
18 of months. It doesn't take a year to make the
19 awards.

20 MS. HUNT: No, it takes a year from when
21 the RFP goes out.

22 DR. WHITLOCK: We have already put out --

1 I'm sorry, I beg your pardon. I'm thinking about
2 the other one. Sorry. So many back pains, so
3 little time. You're right. We can't fund this for
4 a year. We can put in the PSA that we would be
5 interested in shorter term studies if possible, but
6 the reality is if it's a large study and a pragmatic
7 trial, and this would be a fairly big study, it
8 often takes a fair amount of time to accrue the
9 patients.

10 It's just the nature of research,
11 unfortunately. I'm not making excuses. I'm just
12 saying it takes time. We can talk about that with
13 people, but it is what they can actually manage.

14 DR. NORQUIST: Rick?

15 DR. KUNTZ: This is obviously a very
16 important study. Are you going to stratify any of
17 the structural aspects, like spondylolisthesis,
18 things like that?

19 DR. WHITLOCK: I don't think
20 spondylolisthesis will be in here because these are
21 people with non-specific, non-radicular pain. If
22 they are in there, it won't be because they are

1 diagnosed, it would be incidental. I don't know
2 that we will have that information to do
3 stratification.

4 Can you tell me differently? I'm not a
5 spinal surgeon.

6 DR. KUNTZ: You are going to have a high
7 percent of people that have spondylolisthesis. If
8 you look at the most recent literature on
9 stabilization, there is a lot of recent information,
10 randomized trials published, about the different
11 surgical/non-surgical interventions. Everybody will
12 have an x-ray.

13 It just seems like it is sort of missing,
14 that you don't have some kind of anatomical
15 stratification based on the disorder.

16 DR. WHITLOCK: Let me look to my experts.

17 DR. GOERTZ: Actually, the guidelines right
18 now, the current existing guidelines, don't call for
19 x-rays in this particular case unless there is some
20 sort of red flag. If I were doing this clinical
21 trial, I might recommend there be a subset of people
22 that have x-rays because I want to rule in and rule

1 out some pathology or contraindication to the
2 treatment if it includes spinal manipulation, for
3 instance. I would not blanketly assume everybody
4 would be x-rayed, because that wouldn't necessarily
5 be consistent with the standard of care.

6 DR. NORQUIST: Alicia?

7 DR. FERNANDEZ: Quick question, and maybe
8 to Christine. I may not have understood this
9 previously, I apologize for that. We're not saying
10 that patients cannot be on opioids in order to enter
11 the trial; right?

12 DR. GOERTZ: No. We're saying that one of
13 the experimental conditions cannot be opioids versus
14 something else or opioids and then in sequence with
15 something else.

16 DR. FERNANDEZ: A person can be on opioids
17 and be randomized?

18 DR. GOERTZ: Yes, that would be an
19 inclusion/exclusion criterion. All we are saying is
20 we don't want any more studies where it is an active
21 comparator.

22 DR. FERNANDEZ: Great. I had the fear that

1 we wouldn't be able to recruit anyone.

2 DR. GOERTZ: That would be if they were
3 still experiencing some level of quite significant
4 pain.

5 DR. NORQUIST: Evelyn, we don't have any
6 data on the most common intervention? I'm kind of
7 thinking about what Francis was talking about. You
8 could get a variety of different combinations, and
9 then we will have to weigh the applications to
10 decide which ones had the more important, if you
11 will. We have \$50 million. We may get a huge study
12 with sequential analysis of something, and it is
13 going to be \$40 million.

14 Are the interventions they are proposing
15 going to be more important than another -- listening
16 to the prior panel and others, if we had some idea.

17 I was actually curious because I will tell
18 you that one of the interventions which I see all
19 the time used was not on your list, which is
20 Gabapentin. It is used like water out there, quite
21 honestly, for a lot of pain stuff. I didn't see
22 that at all, and we have no good evidence about

1 whether -- I can tell you a lot of people are on it.

2 You may get that versus -- I don't know. I
3 think it is going to be interesting, and we will
4 have to deal with that, I guess, when we get the
5 applications. We do need to a priori have some idea
6 about which of the interventions we feel are the
7 most commonly used, most -- we can't use cost, from
8 a value or something, are the ones that are most
9 important right now, the ones they are using the
10 most. That should somehow get more weight.

11 I guess we're not giving a very specific
12 question, we want to know whether X versus Y is
13 right. I think we need to have some a priori sense
14 of that or we could potentially get a bunch of
15 applications with a variety of different mixes, and
16 we are not sure which ones are really the most
17 important, if you will, from a policy point of view
18 or other kind of point of views.

19 So, just something to think about.

20 Christine?

21 DR. GOERTZ: I think we want to be careful
22 about doing that to some extent and perhaps leave it

1 to the investigative teams to do the justification
2 for why their combination is most important.

3 For instance, a recent Gallup study showed
4 that about 15 percent of people go to a chiropractor
5 in any given year, only about one or two percent go
6 to acupuncture. Yet, the evidence for acupuncture
7 is at least as strong, perhaps a little stronger.

8 It's hard to know what to tether it to, so
9 I think it is actually better for us to leave it up
10 to the investigative team to build a convincing
11 rationale for why they think their combination is
12 the best.

13 DR. NORQUIST: Here's my concern. My
14 concern is at the end of the day, what evidence can
15 we use to make decisions about what we should pay
16 for, so we get a trial of manipulation versus
17 acupuncture, and whatever one comes out. Now we
18 don't know whether some of these other very commonly
19 used interventions, like Gabapentin, then we are
20 back.

21 If somebody came in with a trial and said
22 we're going to try -- I'm just making this up --

1 manipulation versus opioids and something and that
2 didn't work, well, the next sequence up would then
3 be acupuncture, and that might be of interest. Then
4 we might be able to show something is more
5 worthwhile.

6 I'm just worried about this multitude of
7 combinations, I think what Francis was alluding to,
8 where you could get one trial that is A versus B,
9 and another one that is B versus, you know, you may
10 not know at the end of the day what to really tell
11 people, except on an one to one kind of thing.

12 DR. GOETZ: I'm not arguing with the
13 complexity of the issue, just that if we make that
14 decision, we will essentially be making stuff up.
15 It's so difficult to --

16 DR. NORQUIST: I don't think we are making
17 stuff up about what's the most prevalently used, if
18 you will.

19 DR. GOERTZ: We could use what is most
20 prevalent, but that does cause us to miss some
21 things that might be important.

22 DR. WHITLOCK: Right, and even stakeholders

1 told us they were particularly interested in
2 acupuncture, and I don't remember why exactly, but
3 it depends on the perspectives.

4 Leah, did you want to add?

5 MS. HOLE-MARSHALL: Yes, just to say a
6 couple of things. When the committee was called the
7 PDC, we wrestled with back pain. It has been that
8 long where really smart people have tried to come to
9 a very specific question, and we have not been able
10 to get there.

11 This was a different approach, and non-
12 interventional, to try to get there. I don't
13 believe we are going to see six sequential trials of
14 things that have absolutely no evidence given the
15 way it is structured that would pass and get a high
16 quality merit review score. I'll allow that is a
17 possibility.

18 With respect to whether or not we want to
19 have comparators like opioids, the problem that we
20 get into, one, we have a lot of studies with a
21 specific focus on opioids right now, so I'm not sure
22 we want to spend our money that way, and there are

1 many in the community that think things like opioids
2 or Gabapentin are actually not useful at all.

3 So, having seen other studies of using
4 those as a comparator group it isn't helpful to
5 folks in the community who think that, and I think
6 there are risks involved.

7 DR. WHITLOCK: This was meant to get at one
8 area of back pain which is non-interventional, non-
9 surgical approaches, and to see if we could get some
10 comparators where you have patients and purchasers
11 and employers all out there struggling with do I go
12 to PT, do I go to acupuncture, do I go to a
13 chiropractor, do I authorize 10 visits, do I
14 authorize active physical therapy. What does CBP
15 mean? Do I do that in conjunction with PT?

16 They are very common. As long as these
17 researchers have engagement, which is an important
18 part of our strategy, these common questions about
19 whether to do some interventions together or
20 sequences, I think, we will get, and then the
21 question is do we want to delineate that up front
22 when we have struggled for five years to do that and

1 haven't been successful. To me, that was the bottom
2 line question.

3 DR. NORQUIST: Yes. I think you actually
4 were arguing for some of the more common things at
5 the end there, but I think we just need to be
6 prepared for a situation where -- one of the things
7 that was learned is we have not always gotten in
8 from asking for requests, which is one of the
9 reasons we are having conversations about whether we
10 should be much more focused, because we haven't
11 always gotten what we had hoped to get in.

12 We should have a Plan B, too, because if we
13 are putting this level of money out on back pain and
14 we don't get anything that we really think is good,
15 what is our thought about where do we go at that
16 point. I guess we go onto the next topic or
17 something.

18 DR. WHITLOCK: I would say a couple of
19 things. My sense of where the evidence is, and I
20 haven't been here for the whole five years, but for
21 the time I have been here, people cannot get any
22 more specific than we have gotten. In fact, getting

1 to this level of specificity was an accomplishment.

2 The problem is back pain, chronic low back
3 pain is very heterogeneous. Nobody knows how to
4 really figure out what is going on. The treatments
5 are very heterogeneous, and you access them through
6 a whole bunch of different settings.

7 It's kind of a difficult situation to do
8 very targeted research in. Because it has been one
9 of your priority topics and many stakeholders told
10 us it was important, I think PCORI could say well,
11 because we aren't sure we can get a definitive study
12 that is going to change the world, maybe we
13 shouldn't contribute.

14 I think this is moving forward with the
15 idea that this is such an important area that it is
16 worth investing in and improving the science from a
17 comparative effectiveness viewpoint. That is a
18 Board decision. I think you can very well talk
19 about that and decide it is not worth it.

20 I'll be honest. My belief is I don't think
21 -- there may be some things where we really bring
22 some incremental knowledge that will help some

1 people out of this research, but we're not going to
2 have the answer at the end of this. There is a lot
3 to be done.

4 DR. NORQUIST: Just to be clear, I wasn't
5 arguing against doing something in back pain. I was
6 arguing about being a little more focused on the
7 question. Kathleen, and then Freda.

8 MS. TROEGER: Evelyn, thank you.

9 DR. NORQUIST: I see Bob Zwolak also.

10 MS. TROEGER: I agree this is an important
11 area, and thank you for bringing it forward. I have
12 a question that you may have answered in the PCOT
13 outcomes portion, but it gets back to where there be
14 a common set of definitions and criteria,
15 particularly because this is non-surgical measuring,
16 the pay/ time off, the absenteeism, pieces like that
17 which are easier from my perspective to measure in
18 surgical interventions and others than in chronic
19 situations where pay/time off and other pieces may
20 or may not be easily reflected in the EMR, and
21 issues like that.

22 It puts a big burden on the participants to

1 record that data as well, if it is being collected
2 prospectively.

3 DR. WHITLOCK: We had specified that we
4 would look at health care utilization. This is a
5 minimum. People can measure beyond this. We would
6 look at return to work and premorbid function, so we
7 wouldn't necessarily be looking at that particular
8 pay/time off. Certainly, if people think it is
9 important, but I think your point was it would be
10 hard to measure in a non-surgical case.

11 MS. TROEGER: Not particularly like you
12 would see in a surgical case, although return to
13 premorbid function, can you lift this, can you
14 function at your job.

15 DR. WHITLOCK: Right, and that is why we
16 wanted the return to work or premorbid function,
17 which also gets people who are retired.

18 DR. NORQUIST: Freda?

19 DR. LEWIS-HALL: I'm sorry I didn't follow
20 more closely, but have we done any analytic, not on
21 the current data but in datasets with predictive
22 markers? I'm asking because there are a couple of

1 examples of using large systems where you know the
2 outcome, so patients are hospitalized in the last 12
3 months, for example, and then you de-identify the
4 data, you give it to mathematicians, not clinicians
5 or researchers, and say can you develop an algorithm
6 that is comporting with the patients going into the
7 hospital, and then what are the predictors of those
8 for the interventions.

9 Actually, a couple of studies that
10 demonstrated some fairly good results, and it
11 doesn't give you the answer to what you should do,
12 it gives you the answer to what you should study and
13 evaluate further.

14 Do we have anything like that in this space
15 that we have used to hone up in, or could we maybe
16 get more targeted?

17 DR. WHITLOCK: You're speaking my language,
18 predictive analytics. You saw me put that stuff in
19 there. Joe said he went to visit with the North
20 American Spine Surgeons. Do you want to say what
21 they said?

22 The bottom line, Freda, is I don't know

1 where we would get those data right now. It's a
2 really interesting question.

3 DR. GOERTZ: Not exactly what you were
4 asking, Freda, but there are several studies and
5 PCORI has funded a couple of studies on risk
6 predictors, leading from acute low back pain to
7 chronic low back pain, which is what we are talking
8 about here.

9 It is a risk prediction model. There are
10 quite a few published studies on risk prediction
11 models. It's not genomics. It tends to be
12 psychosocial, expectations for recovery, whether or
13 not they were given messages related to activation
14 and what to expect in terms of back pain resolution.

15 There is quite a bit of literature, and we
16 did include it in one of our systematic reviews on
17 topic briefings, when we were trying to decide
18 between the prevention of chronicity versus
19 treatment of chronic individuals. We do have that
20 information, but it is not derived from the same
21 source you are suggesting.

22 DR. WHITLOCK: It's not actually on this

1 particular topic, which is treatment options for
2 chronic low back pain and outcomes. It's the
3 transition. I think the back surgeons were talking
4 about being interested in predictive analytics for
5 who does well with surgery. It's a little
6 different.

7 I guess I don't know if we have a dataset
8 that we could do that with. I think it is a really
9 good question and interesting question. I'm not
10 aware of a dataset.

11 DR. NORQUIST: Bob, and then Joe.

12 DR. ZWOLAK: Briefly, I'd like to say that
13 SOC has struggled with this mightily, and we hashed
14 many of these arguments that have come to the table
15 today, dating back to the PDC. It is in fact, I
16 think, why we purposely opened the lens a little bit
17 in terms of making this proposal less specific
18 rather than more specific.

19 There was some method to our approach here.
20 I won't say method to our madness. Method to our
21 approach. Potentially, science staff could work
22 additionally in parallel to posting this to see if

1 we can come up with some more information by the
2 time the LOIs arrive, not to dissuade any decisions,
3 but to inform our decisions as we move forward.
4 Those efforts could be done in parallel.

5 DR. NORQUIST: Joe?

6 DR. SELBY: First of all, it is true that
7 the outgoing president of the North American Spine
8 Society in his closing talk said predictive
9 analytics is the future of back surgery, and that
10 once the data are available, it will be the
11 responsibility of back surgeons across the lands to
12 have the courage to act on it. It was really quite
13 a moving noteworthy talk. I was blown away.

14 As we were working through the back
15 surgery/back pain question, which was another
16 gigantic question to try to wrestle to the ground,
17 one of the groups that visited us, and the North
18 American Spine Surgeons did, the orthopedists, and
19 the neurosurgeons separately, and one day the
20 physical therapists came. They talked about the
21 fact that there really was a sort of algorithm or
22 sequence that exists in guidelines for people who

1 just entered the categorization of chronic low back
2 pain.

3 That was the point at which this notion of
4 an adaptive smart trial really came, I was just
5 impressed by what they had to say.

6 I share Francis' concern to some extent. I
7 know that we can't lay out the exact question or
8 questions or the exact sequence. Do you think it
9 would be possible to say we're not interested in
10 just a treatment A versus treatment B here. There
11 are too many treatment As and treatments Bs. We
12 want you to give us a theory about a sequence backed
13 up by evidence and linked to the present guidelines,
14 and some question points along that sequence that we
15 can test with randomization.

16 That would be a combination of a smart
17 trial -- a smart trial is a type of adaptive trial,
18 it depends on whether you respond to one. That way,
19 we could get multiple answers out of the same study,
20 and mimic real world practice better, and actually
21 it might be easier to recruit to, too, because we
22 are going to give you this sequence and see how you

1 do.

2 I would just say if we could think about
3 that. We have a long history of leaving the final
4 decision making up to the research community and
5 then having sometimes mixed feelings about what we
6 have to choose from, even when they are well
7 designed studies.

8 I think if we could put the onus on the
9 applicants to go that extra step and really make
10 this an adaptive study that mimics practice and not
11 just this versus that, we would be ahead.

12 DR. WHITLOCK: Great.

13 DR. NORQUIST: Christine, and then Ellen.

14 DR. GOERTZ: I think that sounds like a
15 really fantastic idea. The problem is it is just
16 not that easy, that sequence of events is just not
17 as nailed down as we wish it was. The guidelines,
18 there are not enough of them, they are not for
19 enough various treatments that we are going to be
20 studying, and I think to say we are interested in
21 sequential treatments and we are interested in you
22 actually provide a rationale for why you chose

1 those, that is all very doable.

2 To say it has to be tethered to existing
3 guidelines or there has to be an evidence base for
4 that sequence, that is too high of a bar.

5 DR. SELBY: Maybe the alternative would be
6 that if you are really at the beginning of a
7 sequence, if you are a patient at the beginning of a
8 sequence, then that could be just a simple
9 straightforward, step one would be head to head.
10 After that, you would have a sequence.

11 Does that make sense? In other words, it
12 wouldn't say there is a sequence, but you could
13 allow two, even three initial approaches, and then
14 at a point where they failed, you could still have
15 two or three at that point.

16 I think we have to get more out of this,
17 and something more definitive than this versus that,
18 or we will be back.

19 DR. NORQUIST: Let me just interject
20 because it reminds me of when we did the trial on
21 depression, treatment resistant depression, some
22 years ago, and we had a sequential approach. You

1 had to take one antidepressant, and if that didn't
2 work -- there is no guideline, but we basically said
3 okay, here's what the field believes at this point
4 about this is rationally what we probably would
5 consider next. We had three or four different
6 steps.

7 People, if they didn't respond to the first
8 would fall into the next, and then we would get a
9 better sense about who might be responding.

10 You're not saying you couldn't do that.
11 You're saying don't expect there is actually clear
12 evidence about what step two would be, but someone
13 could come in with such a proposal.

14 DR. GOERTZ: They could, it's just I think
15 we need to make it clear we are not requiring an
16 existing set in stone guideline or some evidence
17 that sequence actually works, again, getting back to
18 our request for preliminary evidence.

19 I agree with evidence that the different
20 components have some effectiveness, but we don't
21 really have research on how that preliminary
22 evidence or how some kind of sequencing might work,

1 and it's possible that this community is not as
2 aligned as the mental health community was in what
3 that sequence might be, which is again why I think
4 we need to express to the investigative team to
5 justify their sequence.

6 DR. NORQUIST: I'm not sure we were that
7 aligned. I would say there is a sequence that is
8 going on in the real world, and I think in different
9 places, and I think one could play that out.

10 What I think is I'm kind of like Joe, what
11 I hate to do is have five or six head to head
12 comparisons, and at the end, we just really don't
13 know like what do we tell all these people who
14 failed each one of these comparisons? Within a
15 trial, you might be able to get a better sense, like
16 a third responded, and another third responded, and
17 then another third.

18 At the end of our trial with depression, we
19 ended up with a third that didn't respond to
20 anything, but we had two-thirds who actually got
21 somewhere after a sequence. We wouldn't have
22 predicted that necessarily at the beginning.

1 DR. GOERTZ: No, I'm not arguing with that.
2 I can come up with three designs that I think would
3 be fantastic along those lines. I think it just
4 depends on how we set it up, and again, let the
5 investigators justify.

6 DR. NORQUIST: I think we are allowing the
7 investigators to justify. Ellen, and then Bob
8 Jesse.

9 DR. SIGAL: I'm sorry. The adaptive trials
10 are really important. There is a science to doing
11 an adaptive trial properly, and for investigators
12 that are not used to doing it, you have to be very
13 careful about its design and how rigorous it is
14 going to be. We do that at medical centers where
15 they are used to doing a lot of these trials.

16 To get the right results on an adaptive
17 trial, it really needs a lot of thought.

18 DR. NORQUIST: Bob?

19 DR. JESSE: In this emerging world of
20 precision medicine, how do we do a trial like this
21 that doesn't end up being a population study? This
22 works for 30 percent of the people, but we find out

1 what works for which people, what markers, whether
2 they are biomarkers --

3 DR. SELBY: That would be great; right?

4 DR. JESSE: Right.

5 DR. SELBY: That would be a good thing.
6 That is the predictive analytics.

7 DR. JESSE: Right, but how do we ensure a
8 trial gets designed --

9 DR. SELBY: I think we have to ask for both
10 of these things. I think my point, Evelyn, was put
11 some additional instructions in there for the
12 investigators, so they don't come back to us with 14
13 different --

14 DR. WHITLOCK: Right. I think what I am
15 hearing from this conversation, I'd like to respond
16 and say we have said in this, and I'm thinking we
17 should modify, it says "combinations and/or
18 sequences." I think we should say "sequences,"
19 proven or commonly used treatments, alone or in
20 combination, comparisons of those and sequences. I
21 think we need to require sequences. That is what I
22 am hearing everybody said.

1 They shouldn't be able to just get away
2 with a couple of head to head things that we don't
3 learn that much from. I think that is a really
4 helpful outcome from this combination -- conversing.

5 DR. NORQUIST: Collaboration.

6 DR. WHITLOCK: Yes, collaboration. I think
7 we could make that a requirement, and talk about the
8 other designs that might help support that.

9 SPEAKER: Evelyn, you would allow
10 combinations within the sequences; correct?

11 DR. WHITLOCK: Absolutely.

12 DR. NORQUIST: Absolutely; yes.

13 DR. WHITLOCK: You would not allow just A
14 and B versus C and D. You want people to have
15 somewhere to go if it doesn't work.

16 DR. NORQUIST: What we are approving is
17 actually the money to be put toward this, the actual
18 final RFA, you still have to develop.

19 DR. WHITLOCK: Right.

20 DR. NORQUIST: What I am asking now for is
21 a motion to approve allocation at this point of \$50
22 million for the development -- up to \$50 million.

1 DR. JESSE: So move.

2 DR. BARKSDALE: Second.

3 DR. NORQUIST: We can do a hand raising.

4 Francis, if you are still on, you can tell us yes,
5 no, or abstaining.

6 DR. COLLINS: I think I have to abstain. I
7 just don't feel comfortable we have a good idea of
8 what we are doing here.

9 DR. NORQUIST: Okay. Francis abstains.
10 All those in favor?

11 [Show of hands.]

12 DR. NORQUIST: Anybody opposed in the room?

13 [No response.]

14 DR. NORQUIST: Anybody abstaining in the
15 room? Okay, Andy Bindman is abstaining. It passed.

16 That was our last session. I heard from
17 Sue that we have no one in the room or online who
18 would like to make a public comment, so we will not
19 be initiating our public comment period. You are
20 always welcome to go on our Web site and at
21 Info@PCORI.org.

22 DR. SELBY: I want to thank everybody for a

1 great day. We're going to ask the Board members to
2 stay for just a little while afterwards. We have a
3 bit of a planning discussion. It shouldn't take too
4 long. Everybody else can leave except the executive
5 team and the Board members.

6 DR. NORQUIST: Just a reminder to people,
7 all the information and recording of this will be on
8 our Web site at PCORI.org.

9 That is it. Thanks, everybody.

10 [Whereupon, at 5:02 p.m., the meeting was
11 adjourned.]

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