

PATIENT-CENTERED OUTCOMES RESEARCH INSTITUTE

BOARD OF GOVERNORS MEETING

Monday,
May 23, 2016

Almas Shriners Building
1315 K Street
Washington, DC 20005

[Transcribed from PCORI teleconference.]

B&B REPORTERS
4520 Church Road
Hampstead, MD 21074
[410] 374-3340

APPEARANCES:

BOARD OF GOVERNORS

Debra Barksdale, PhD, RN
Kerry Barnett, JD [Vice Chairperson]
Lawrence Becker
Andrew Bindman, MD
Francis Collins, MD, PhD
Allen Douma, MD [via telephone]
Alicia Fernandez, MD
Christine Goertz, DC, PhD
Leah Hole-Marshall, JD
Gail Hunt
Robert Jesse, MD, PhD
Richard Kronick, PhD
Harlan Krumholz, MD
Richard E. Kuntz, MD, MSc
Sharon Levine, MD
Freda Lewis-Hall, MD
Steven Lipstein, MHA
Barbara McNeil, MD, PhD
Grayson Norquist, MD, MSPH [Chairperson]
Ellen Sigal, PhD
Harlan Weisman, MD [via telephone]
Robert Zwolak, MD, PhD

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P R O C E E D I N G S

[10:01 a.m.]

OPERATOR: The conference is now being recorded. Dr. Norquist, the floor is yours.

DR. NORQUIST: Thanks. Hello. I'm Dr. Gray Norquist, Chair of the PCORI Board of Governors, and I want to welcome those of you who are joining us for today's Board meeting, which is being held in Washington, D.C., as well as via teleconference and webinar. Thank you to everyone who has registered to join us in person, online, or on the phone, and we are pleased to have you here.

As a reminder, instructions for logging in or calling in are available on our Web site at PCODRI.org/events.

All Board members are present in person except Allen Douma and Harlan Weisman, who are joining us on the phone.

I want to remind everyone that disclosures of conflicts of interest for members of the Board of Governors are publicly available on PCORI's Web site and are required to be updated annually.

1 Members of the Board of Governors are also
2 reminded to update your conflict of interest
3 disclosures if the information has changed. You can
4 do this by contacting your staff representative. If
5 the Board were to deliberate or take actions on a
6 matter that presents a conflict of interest for you,
7 please inform me so that we can discuss how to
8 address the issue. If you have questions about
9 conflict of interest disclosures or recusal, please
10 contact your staff representative.

11 All materials presented to the Board for
12 consideration today will be available during the
13 webinar and then after will be posted on our Web
14 site at PCORI.org.

15 The webinar is being recorded, and an
16 archive will be posted within a day or so. We have
17 scheduled public comment today from 5:15 to 5:45
18 Eastern Daylight Time. If you are interested in
19 registering to provide public comment, please visit
20 our Event page for instructions. You also can
21 always email us at info@PCORI.org or provide input
22 through our Web site at PCORI.org.

1 Finally, a reminder, we are live Tweeting
2 today's activities on Twitter. You can join the
3 conversation at #PCORI.

4 The first item is roll call. I think we
5 can basically just announce we have all the members
6 here present. Robin is here for the Methodology
7 Committee. Allen, are you on the phone? Allen
8 Douma?

9 Allen must not have joined yet. Harlan
10 Weisman? Okay. When they come on, we will
11 certainly announce it.

12 The first item on the agenda is our consent
13 agenda. Those items are up there. One is the
14 minutes from our recent April 26 teleconference, and
15 then the nomination of Dr. Andrew Bindman to serve
16 on the EDIC and SOC. We want to welcome Dr. Bindman
17 who is now with us and at AHRQ. The updated
18 research and infrastructure project budget increase
19 policy.

20 We need to go to the point at which we ask
21 for a motion, and then we can have a discussion.
22 Don't we have a slide? There we go. I need a

1 motion to approve the consent agenda.

2 M O T I O N

3 MR. BECKER: So move.

4 MR. LIPSTEIN: Second.

5 DR. NORQUIST: Larry, thank you, and second
6 from Steve, thank you. Now we can open it up for
7 discussion. Let's first address the minutes. Are
8 there any corrections or additions to the minutes?

9 [No response.]

10 DR. NORQUIST: Any concerns about Dr.
11 Bindman? I don't think so.

12 [No response.]

13 DR. NORQUIST: Okay. Good, we're getting
14 off to a good start. The last one is about the
15 policy. Do we have any comments on the proposed
16 policy? Larry, did you want to say anything, the
17 policy on the change in the amounts?

18 MR. BECKER: It's an adjustment to our
19 existing policy. I don't know that it necessarily
20 warrants a whole lot of discussion. If there are
21 questions, I'm sure we can respond to them.

22 DR. NORQUIST: I don't see any questions or

1 concerns. Wait. Leah?

2 MS. HOLE-MARSHALL: My question was it
3 looked like there was both a supplemental with a max
4 of \$1 million or 5 percent, but then the general was
5 a max of \$1 million or 30 percent, up to 30 percent.
6 I just wanted to understand the difference between
7 those two, and since the old policy wasn't included,
8 I wasn't sure what the extent of the change was.

9 Many of our grants are only around the 3 to
10 \$5 million, so \$1 million is a pretty substantial
11 number.

12 MS. YAN: Our previous policy adjusted for
13 ops, so because now we have so much bigger awards,
14 that is why we had to adjust the policy to reflect
15 that.

16 MS. HOLE-MARSHALL: The previous policy was
17 up to 15 percent?

18 MS. YAN: What happened is when the Board
19 approved the slate, the amount is based on what they
20 requested at the proposal. Usually, after review
21 and budget negotiation, the amount is slightly
22 different, so we put 15 percent there so it doesn't

1 have to come back to the Board.

2 That 15 percent has worked really well the
3 last couple of years. We haven't had any problems.
4 Now, with much bigger awards, we feel we need to
5 have a more comprehensive, more complete policy in
6 place to address all issues. That is why we made
7 that adjustment.

8 MS. HOLE-MARSHALL: Maybe what we can do in
9 the report out for either the Dashboard or how our
10 grants are doing, if you could do a report about how
11 many were adjusted and at what percent so we can
12 continue to track that.

13 MS. YAN: Certainly. Currently, we prepare
14 those reports for FAC as well.

15 MS. HOLE-MARSHALL: Thank you.

16 DR. NORQUIST: I think we can do this by
17 voice vote. All those in favor?

18 [Chorus of ayes.]

19 DR. NORQUIST: Anyone opposed?

20 [No response.]

21 DR. NORQUIST: Anyone abstain?

22 [No response.]

1 DR. NORQUIST: Allen or Harlan Weisman, are
2 you on the phone?

3 [No response.]

4 DR. NORQUIST: All right. The next item is
5 our Executive Director's report. Joe Selby, of
6 course, is our Executive Director and will deliver
7 that report. Joe?

8 DR. SELBY: Thanks, Gray. Good morning,
9 everyone. I'm concerned about the people who are
10 not able to see Andy Bindman directly, so all those
11 listening by webinar, here is a picture of Dr.
12 Bindman. I just wanted to say how delighted
13 personally I am and how excited we all are to have
14 Andy as the new Director of AHRQ.

15 Andy is a primary care physician, health
16 policy, health services researcher, head of General
17 Internal Medicine at San Francisco General Hospital.
18 Important for all of you to know formally, Alicia
19 Fernandez's boss. That is why we recruited him
20 here.

21 [Laughter.]

22 DR. SELBY: Andy is just a real force and a

1 delightful person. It really is great news for AHRQ
2 and great news for PCORI to have him in the D.C.
3 area and on our Board, and at the helm at AHRQ.
4 Welcome, Andy.

5 I usually throw in a few nice brief stories
6 here. This is one that is just really pretty
7 dramatic. PCORI has been pushing the envelope on
8 patient engagement in terms of getting research off
9 the ground. THE BMJ has joined us, and not without
10 acknowledging our role in the process -- have joined
11 us in tying down that other end of science, that end
12 that comes at publication.

13 The British Medical Journal has now
14 launched an initiative that involves three things.
15 Number one, if you submit a paper to the British
16 Medical Journal, you have to state in the text of
17 the paper whether and how you involve patients in
18 developing and conducting the research.

19 Patients have been incorporated into the
20 peer review process, so there is a patient reviewer
21 and onto the editorial board of the BMJ. This is
22 really -- you see the quote there that references

1 PCORI. We have had conversations with them and
2 really are looking forward to working with them to
3 understand the impact of patients at this tail end -
4 - not the tail end perhaps, this particular branch
5 in the project of producing and disseminating
6 science. That is just a nice tale.

7 Many of you know, but it is important for
8 the public to hear as well that at our March Board
9 meeting we announced -- it wasn't a topic that
10 needed Board approval, but the SOC announced that we
11 would be releasing a funding announcement for a
12 randomized placebo controlled trial of direct acting
13 antivirals versus active surveillance in patients
14 with Hepatitis C.

15 The focus was on short-term outcomes. The
16 focus was on symptoms, such as fatigue, depression,
17 mental cloudiness, ability to function. The idea
18 was to see whether in fact the impression of
19 clinicians and patients that treatment with direct
20 acting antivirals actually affected these endpoints
21 in a number of patients, that is low risk patients
22 who don't have coverage for Hepatitis C treatment.

1 This was announced. We actually had
2 presented a time line. Shortly after the Board
3 meeting, we got communication from a number of
4 patient stakeholder groups in particular, physicians
5 as well, clinicians as well, and people who had
6 participated in our original meeting in October 2014
7 saying this was not discussed in 2014, and we feel
8 it needs more airing and more stakeholder input.

9 The Board decided to stop for the moment
10 our process moving toward release of a funding
11 announcement and reconvene this group. We did it
12 last Thursday afternoon, a two hour plus
13 teleconference/webinar, extraordinarily well
14 attended. I think we had almost everybody who was
15 at the first meeting rejoined us.

16 I would say the meeting reflected the
17 complexity of this issue. There were a wide range
18 of opinions presented on the scientific utility or
19 value of the question, pro's and con's, on the
20 ethics of the question, and on the feasibility of
21 conducting a study in the present environment.

22 That input is being synthesized. We will

1 go back to the SOC, take that under advisement, and
2 we will let the public know as soon as there is a
3 decision based on the input from this stakeholder
4 meeting.

5 I just wanted to get that on the public
6 record since there may be people listening in who
7 are wondering what has happened to that funding
8 announcement.

9 I should have said that meeting was fully
10 open to the public, and they were able to submit
11 comments as well.

12 Annual meeting, good news is the date and
13 time are set, November 17-19, National Harbor, here
14 in the D.C. area. A full second year agenda that
15 builds on what we accomplished with a very
16 successful first annual meeting. The spotlight is
17 going to be on the role PCORI can play in promoting
18 CER and patient-centered outcomes research.

19 This year we are able to focus on emerging
20 results of our funded studies. That is quite
21 exciting, on building the community on emerging
22 dissemination work and building the community to

1 effect dissemination and knowledge sharing.

2 Should be an exciting meeting, and I really
3 hope as many Board members as can possibly attend do
4 make it. As you know, there are roles we are
5 soliciting in activities and contributions from you
6 during the meeting.

7 This is the agenda for today's meeting. In
8 just a second, I will present briefly the Dashboard
9 for the second quarter. You're going to hear a mid-
10 year, through the second quarter of fiscal year 2016
11 financial report from Regina and Larry of the FAC.

12 Robin Newhouse will present the Methodology
13 Committee report. This will be a vote proposal from
14 the Selection Committee. Rachael Fleurence will
15 present on a cross-PPRN research project, a very
16 exciting project that we will get all 20 PPRNs
17 involved in research activity.

18 Then you are going to hear a report from
19 Jean, Regina, and Evelyn on the application
20 enhancement efforts, which are really the result of
21 ongoing discussions and subcommittee work primarily
22 coming out of the SOC and staff on efforts to

1 enhance every aspect of the application process and
2 the application experience of researchers.

3 The message here is that Board and staff
4 alike are listening to the research community, are
5 listening to our merit review panels, and are
6 working in a systematic way to continue to make
7 improvements on the application process. You will
8 hear about that.

9 Noontime, just after lunch, we will have a
10 panel presentation. This month's stakeholder focus
11 is on specialty physician organizations. We will
12 hear from the American College of Physicians, the
13 American Thoracic Society, and ASCO, the oncology
14 specialty organization. We have had really fruitful
15 relationships with a large number of physician
16 specialty organizations.

17 In the afternoon you will hear a pretty
18 lengthy, for the first time, a full presentation on
19 PCORI's dissemination strategy. We are anxious to
20 present this and have a discussion with you about
21 this as we enter the phase of life where
22 dissemination is really something we can talk about

1 and not only talk about, but carry out.

2 Then there are three exciting new funding
3 announcements presented to you on behalf of the SOC
4 for your consideration for approval, and if you
5 approve them, we will develop and get these funding
6 announcements out, on sickle cell disease, on
7 prevention of unsafe opioid prescribing in primary
8 care, and on community-based palliative care.

9 We are going to do a little catch up work
10 with a couple awards that were delayed from previous
11 cycles, delayed because of questions. The questions
12 have been addressed. I think it is two or three
13 additional awards.

14 Then an analysis presented by Evelyn from
15 work in our portfolio on the outcomes of depression,
16 pain, sleep, and fatigue. We have often heard from
17 you that we should be conducting more studies with
18 these as outcomes. This is one way to approach
19 that, to present to you what we are currently
20 funding in these areas, and to get a discussion
21 about how we can build on this, synthesize your
22 input, and questions will be welcome.

1 With that, there are just two more things I
2 want to say in closing today. The last couple of
3 months have been marked by the culmination of some
4 discussions we have had with outside counsel and
5 with the Treasury.

6 I am really happy to report to you and
7 everyone that is listening that we have made it
8 crystal clear now, and Treasury has confirmed, that
9 we, PCORI, will be able to secure all of our
10 funding, regardless of what might happen around
11 September 30, 2019. We will be able to secure all
12 the funding that is in the PCORI Trust Fund and
13 dedicated to PCORI before that September 30 date if
14 need be.

15 That means we can all be confident that if
16 we fund a five-year study tomorrow, we will have the
17 funding and be able to administer it through to the
18 end. That is the message. We have had some
19 concerns that some researchers may be wondering
20 whether the awards we are offering could get
21 curtailed in September 2019.

22 I am happy to say no matter what happens in

1 September of 2019, we have the funds. We are not
2 over committing. We are not committing beyond the
3 funds that we have available to us at that point.
4 Important note.

5 The last thing is just to say on Thursday
6 and Friday of last week, we had the merit review
7 panels for the four targeted funding announcements,
8 that on the novel coagulants, two on management of
9 opioids, one on the treatment -- approaches to
10 treatment resistant depression, and the fourth was
11 on treatments for Multiple Sclerosis. Those review
12 panels took place on Thursday and Friday.

13 My understanding is they went exceedingly
14 well, and we hope that in July of 2016, we will have
15 the largest batch of targeted funding announcement
16 awards to present to the Board for approval, July,
17 possibly some of them may drift into August. Really
18 sends a clear signal of what PCORI is about and the
19 kinds of comparative effectiveness research we bring
20 to bear.

21 Today and tomorrow, the next round of
22 pragmatic clinical studies are being reviewed and

1 the next round of broad clinical studies are being
2 reviewed. This week in addition to being a Board
3 weekend and week, it is one of the largest merit
4 reviews we have had to date. The word is the
5 proposal really are improving in quality over time.
6 I just heard that last week.

7 Today, we will be talking about ways to
8 enhance that, but it sounds like our efforts to date
9 have already taken us in that direction.

10 Gray, I will stop and just see if there are
11 any brief questions.

12 DR. NORQUIST: Before we go to the
13 Dashboard, let's open it up and see if anybody has
14 questions/comments. I don't see any.

15 Allen, are you on the phone?

16 DR. DOUMA: I am.

17 DR. NORQUIST: Go ahead, Joe.

18 DR. SELBY: Here is our --

19 DR. NORQUIST: Just let me say one thing.
20 If you have the slide deck, you have more slides
21 than Joe is going to show. I have been very clear,
22 we do not want a lot of slides to talk to, so that

1 is why we asked everybody to read in advance. If
2 you didn't, you will be behind, basically. We all
3 agreed we would have much more of a discussion
4 session than just being presented to.

5 DR. SELBY: We worked that with all our
6 staff, and it is difficult. It is difficult to let
7 go of those slides, but I think we have done a
8 pretty good job.

9 DR. NORQUIST: Okay.

10 DR. SELBY: Here is our Dashboard. You
11 have seen this, so I'm not going to say much. I
12 will draw your attention to the two goldenrod or
13 yellow sectors. Those are areas where we have
14 fallen below our expected.

15 In the first one, it's the amount of money
16 we have committed, not spent, but committed to
17 research in fiscal year 2016, and you see by the end
18 of the second quarter, the top line is the amount
19 budgeted. That is maybe a bit extreme because it is
20 adding up every award we announced and taking that
21 top dollar. When we say "up to" \$20 million, we put
22 \$20 million on.

1 You might logically think that we would
2 fall somewhat short of that. The middle bar there
3 is our historical record. That is where we have
4 fallen to date, probably about 20 percent below what
5 we announced.

6 What you will see is that in 2016, through
7 two quarters, we are right at our historical
8 performance, and we are again a bit below, not
9 dramatically below, but a bit below, where we had
10 budgeted.

11 That continues to be an issue and that is
12 one of the reasons that we have all the application
13 enhancement work underway that we do, and you will
14 be hearing about that later.

15 On the upper right is the expenditures.
16 Again, as has been the case in previous years, we
17 are spending less both in research awards and in
18 other categories, program and administrative
19 activities, than we budgeted. Regina is going to go
20 through that in greater depth.

21 One message is that whereas last year we
22 were 28 percent underspent mid-year, this year we

1 are 18 percent. We think that is real, that is a
2 real change, that as we reach steady state, as we
3 reach a plateau, as we are not budgeting for people
4 that take a little longer to recruit than possible,
5 we are beginning to catch up.

6 The other things on here I will show in
7 subsequent slides, a highlight on specialty
8 physicians and PCOR, results on influencing the
9 research of others and results on engagement and
10 research.

11 This is just two examples, there actually
12 are more, but this is a very nice one from the
13 Journal Academic Radiology, the Association of
14 University Radiologists, have a research alliance,
15 and they reviewed all PCORI funded radiology
16 projects, and there were a number of them, and
17 described how the methodology standards apply in the
18 area of medical imaging and diagnosis.

19 They also presented an agenda, which we are
20 looking at carefully for future projects in the
21 field of patient-centered outcomes research. You
22 see the quote there, "As radiologists, we must

1 embrace PCOR or risk missing a key opportunity to
2 demonstrate value and improved care."

3 In nephrology, Dr. Harold Feldman, who is
4 at Penn, Director of the Center for Clinical
5 Epidemiology and Biostatistics, is also the incoming
6 editor of the American Journal of Kidney Diseases,
7 and he said in his opening editorial -- he
8 highlighted the major studies related to nephrology
9 that PCORI has funded, and said the Journal is going
10 to focus on translating findings from patient-
11 centered outcomes research in the clinical practice.

12 Two nice examples of the way that others
13 are talking about PCOR and PCORI.

14 This is a very nice example from the
15 Meharry-Vanderbilt Alliance, Dr. Consuelo Wilkins,
16 who is the Executive Director of this Alliance in
17 Nashville.

18 PCORI is credited with being a catalyst for
19 their decision to include community members and
20 stakeholders in the scientific review process for
21 their pilot awards, their CTSA pilot awards program.
22 They observed PCORI's review process, decided it

1 could work for them, and they now have a training
2 curriculum that builds from our own mentor program.

3 They also instituted a postdoctoral
4 research fellow program in community engaged
5 research, and they have a community scholars program
6 for pre-doctoral students, where one can get up to
7 \$5,000 to support a research project on community
8 engagement during your pre-doctoral period.

9 You will see Dr. Wilkins cited PCORI and
10 PCORI funding as a catalyst for expanding their
11 teaching in this area.

12 This is a nice publication in JAMA Surgery
13 from a PCORI funded project where they talked about
14 how the inclusion of patient stakeholders on their
15 research team led them to change their recruitment
16 rates and the script for enrollment, driving their
17 enrollment rates in a PCORI funded trial from 65 to
18 95 percent. This is about a study of surgery versus
19 antibiotic therapy in pediatric appendicitis, and
20 this was about involving patients and their parents
21 more actively in the decision.

22 This is a new page, and you are going to

1 see it. I think it is probably going to progress to
2 the Dashboard pretty soon. These are our pragmatic
3 studies, really our large flagship studies. There
4 are now 20 of them, 14 of them, the contracts are
5 underway, and 12 of those 14 were eligible for their
6 first evaluation and you will see, using our green,
7 yellow, red evaluation, 10 of the 12, the top bar,
8 are on track in every way. Two of them are a little
9 bit behind, and that is on recruitment.

10 The percent of the 12 projects that could
11 be evaluated that are on track is 83 percent. The
12 number of projects with recruitment milestones was
13 just four, because it takes many of them a while to
14 get up to date on recruitment, to start recruitment.
15 Four of them -- two of them were on track with 100
16 percent of recruitment met, and two of them were
17 behind.

18 The two that were behind are an interesting
19 finding. One of them is actually taking some time
20 to identify -- more time than they thought to
21 identify the participating hospitals. The other one
22 is having some trouble assuring coverage of in this

1 case genetic testing by the payers that are
2 involved, and they are working hard payer by payer
3 to get coverage for the genetic testing that would
4 go into this large randomized trial of genetic
5 testing surrounding mammography screening.

6 I think you are going to see more issues
7 around coverage of particularly treatment that have
8 not -- that are new and haven't been picked up by
9 payers yet. That is going to be the subject of a
10 Board level discussion soon.

11 In general, the projects are doing quite
12 well, not surprising that two of them would have
13 some problems of the type we just described.

14 This is PCORNet, and this is the number of
15 research projects underway, most, although not all,
16 five of them are funded by others, the rest are
17 PCORI funded demonstration projects. You will see
18 we are a little bit behind in quarter two, 10 funded
19 versus 13 projected.

20 It is because of two things. One project
21 has been delayed by the Selection Committee, who had
22 some very legitimate concerns both about methods and

1 possible conflict of interest, and the other is the
2 projects that got funded just turned out to be
3 larger, so instead of funding 6, we funded 4. That
4 is not really a shortfall in terms of spending, it
5 is a shortfall in the number of projects, small, and
6 the networks are engaged. You see 25 networks out
7 of the 33 are already involved in at least one of
8 the projects.

9 If you look on the left, the observational
10 studies, those two darker blue studies are the two
11 obesity observational studies, large studies. One
12 involves 10 and one involves 12 networks. I think
13 that is mostly CDRNs but there are some PPRNs as
14 well.

15 The PPRN demonstration projects that are
16 observational studies involve 7 PPRNs. The right
17 cluster is randomized trials, adaptable, and
18 involves, as you see, 7 CDRNs, and the other trials
19 are PPRN trials. Most of the PPRN projects actually
20 are randomized trials, and they involve from 2 to 6
21 PPRNs per trial.

22 From PCORNet, again, the front door policy

1 has been elaborated and approved by the PCORNet
2 Council. The front door is the way that external
3 researchers and external funders will approach
4 PCORNet. This underwent what PCORNet likes to call
5 a "soft launch" in April of 2016. That meant people
6 who were already involved with PCORNet one way or
7 another could approach PCORNet, and we would begin
8 looking into the possibility of their study ideas.

9 You will see in the upper box on the right
10 of the inquiries we have gotten, 13 have been about
11 trials, 4 about observational studies, and 2 about
12 to and from participating sites, inquiries from
13 participating sites. The requesters include
14 academics, industry sponsors, foundations, a
15 national association, one Federal inquiry, and one
16 that came from a research center.

17 The full opening of the front door will
18 take place some time in the summer of 2016, probably
19 at the very end of June/early July.

20 This is really extraordinary news. This is
21 the state of readiness, the progress we have made in
22 standardizing data across the DataMarts. The

1 DataMart can be one health system or a cluster of
2 health systems that aggregate their data into an
3 instance of the common data model.

4 In the box at the upper right, you will see
5 in PCORNet at the moment, there are 83 DataMarts, 83
6 instances of the common data model representing one
7 or more systems. This number keeps growing.

8 Just in the less than two months, from
9 March 30 to May 19, you will see what we have is a
10 progression from the very first interaction with the
11 coordinating center, that is called the diagnostic
12 query, to the data characterization phase where they
13 run a substantial query sent out by the coordinating
14 center to the first prepper research ready phase
15 where the coordinating center actually says you are
16 ready for pilot work to further dedication review.

17 That is back and forth with the
18 coordinating center about findings in the data that
19 have been sent, the aggregate data that have been
20 sent to the designation as ready for research.

21 We have gone from zero ready for research
22 to six. The number that are in that second, the

1 data characterization review, has grown. The
2 numbers in that very first phase is shrinking, and I
3 think really the reason you see them is because they
4 found several other DataMarts, driving the total
5 number of DataMarts.

6 This progress is just really knocking us
7 over. We are very pleased. We have a target date
8 at some point in the summer where all the DataMarts
9 that are going to go forward need to be research
10 ready. Right now, we are very optimistic that a
11 large number will be, not maybe 83, but a very large
12 number.

13 That is great news from PCORNet. Gray,
14 that is it. If there are questions about the
15 Dashboard, I am going to go back and put it up.
16 Questions about what is on the Dashboard, but also
17 as always, questions about what you would like to
18 see on the Dashboard, how we could improve it
19 further.

20 DR. NORQUIST: Francis Collins is up first.

21 DR. COLLINS: It was very helpful to have
22 the review. This is Francis Collins, Board member.

1 I just want to go back to the main Dashboard, which
2 you now have up on the screen. A question about how
3 you set your benchmarks for research projects being
4 on track or not. I think we have talked about this
5 before.

6 When you see that less than 75 percent are
7 actually, as far as enrollment, in the green zone,
8 and only about 50 percent appear to be at 100
9 percent. I'm a little surprised that is then called
10 "green," but it must reflect what you are setting as
11 your benchmarks when you think you are hitting them.

12 This is obviously one of the big challenges
13 of running clinical trials, and one that we need to
14 watch really closely.

15 DR. SELBY: Francis, you made that comment
16 last time.

17 DR. COLLINS: I am very consistent.

18 [Laughter.]

19 DR. SELBY: You are. We looked into it
20 carefully, including calling NIH and other places.
21 No one has this kind of data across their
22 portfolio's. Nobody was able to tell us. As you

1 say, recruitment is a stumbling block for every
2 funder and every trialist. We have said what we are
3 going to do is monitor the trend, and we take heart
4 in the fact that the trend is holding steady or
5 going up just a bit over time.

6 To say that half of them are at 100 percent
7 recruitment is probably in our view and based on
8 conversations we had with others, as good or better
9 than others are doing. I don't think we are going
10 to find anybody else who is tracking it the way we
11 are to say at our place, 62 percent of the trials
12 are on target. We have not been able to squeeze
13 that out of any other funder yet.

14 If people have suggestions for someone to
15 talk to to get a benchmark, we would be very
16 appreciative.

17 DR. COLLINS: I just think it would be good
18 if you established what your own criteria are for
19 green, yellow, orange here, because it has not been
20 clear to me exactly what you are going to consider
21 to be in each of those categories, and going
22 forward, it would be helpful to have that, even if

1 you can't find industry or community benchmarks,
2 what is our benchmark.

3 DR. SELBY: It is in the ancillary slides.
4 We have shown it a few times.

5 UNIDENTIFIED: Slide 23.

6 DR. SELBY: It's the table of green,
7 yellow, orange, and --

8 DR. NORQUIST: Red.

9 DR. SELBY: Red, thank you, in the
10 ancillary slides. We have shown it before. There
11 are exact numbers put on the recruitment rates, like
12 above 75 percent and 50 to 75 percent.

13 DR. NORQUIST: Number 23 has the columns so
14 you can see. Leah?

15 MS. HOLE-MARSHALL: Following on that, on
16 my Board deck, 24, is this the trend, how many are
17 in yellow, orange, and red? I think as I understand
18 this slide, you're monitoring the same number from
19 quarter to quarter, and just adding the projects
20 that were added, that were approved, right?

21 DR. SELBY: Yes.

22 MS. HOLE-MARSHALL: It is a cumulative

1 number from quarter to quarter.

2 DR. SELBY: Yes.

3 MS. HOLE-MARSHALL: It looks like
4 approximately, the yellow, orange and red stay about
5 the same. In our definition, if they are red, they
6 have 30 days to remediate.

7 DR. SELBY: They can come back into green,
8 so ones that were yellow, orange, or red can work
9 their way back up the spectrum.

10 MS. HOLE-MARSHALL: Are the red's from
11 quarter to quarter all different projects?

12 DR. SELBY: I don't have that at hand,
13 Leah. Projects do get terminated, so I would say
14 undoubtedly the four in quarter two of 2016 aren't
15 the same as the four in quarter three of 2015.
16 There have been some projects that have been closed
17 in the red category.

18 MS. HOLE-MARSHALL: I guess I have
19 different numbers. If the red is 30 days, that is
20 our definition, they have 30 days to get out of red.
21 I just wonder how many of those are cycling out. It
22 looks like they are consistent over time.

1 DR. SELBY: I can get you that number
2 again.

3 MS. HOLE-MARSHALL: Those are cumulatively.
4 Cumulatively, we have terminated four, not quarter
5 by quarter.

6 DR. NORQUIST: On mine, I think that four
7 applies to the orange line. It looks like the black
8 line, which is terminated, is zero. I don't see any
9 terminated, do you? Is there one?

10 MS. HOLE-MARSHALL: On the bar side, 24 is
11 one.

12 DR. SELBY: It must be one.

13 MS. HOLE-MARSHALL: Just in terms of the
14 trends that we are watching, maybe some detail
15 around the ones that are red, orange, and yellow and
16 how they are moving. I don't know exactly how to
17 talk about that, but I would expect some would move
18 up, meaning move from either red or orange to yellow
19 or green, which is great. Some would move down and
20 some are staying the same.

21 DR. SELBY: Very good, I think that is an
22 excellent suggestion. We will definitely bring it

1 back with the next quarterly report if not before.

2 DR. NORQUIST: Other questions on the
3 Dashboard?

4 MS. HOLE-MARSHALL: I had one more
5 suggestion on the Dashboard for PCORNet, and that is
6 thank you for the information about the DataMarts
7 and readiness. I think it is really helpful and
8 exciting to hear that progress.

9 We had talked last time about the queries
10 that we had asked to be able to run, and as part of
11 our proof of concept, it's important to show that we
12 are making progress actually on results of those
13 queries, so it will be useful to have a similar
14 graphic next time on the number of queries that were
15 expected and how we are doing on that.

16 DR. SELBY: Good.

17 DR. NORQUIST: Bob Zwolak?

18 DR. ZWOLAK: Bob Zwolak, Board member.

19 Joe, I really appreciate the Dashboard. I think it
20 gets better and communicates better each time that
21 we see it. My question relates to the top left
22 yellow bar. In one of my day jobs, I spend a lot of

1 time trying to smooth out peaks and valleys of
2 demands to optimize resource utilization.

3 It strikes me that here for quarter one, we
4 have no commitments and two and three are small,
5 then quarter four in particular this year, in July,
6 there is going to be simply an enormous
7 announcement.

8 The operational question is in this world
9 of grant making, is this created by design that all
10 the announcements would be sort of into the fourth
11 quarter or would we do better if somehow we were to
12 smooth out the grant announcements?

13 DR. SELBY: That's a question that is under
14 active consideration. The reason quarter four is so
15 large is almost completely because of the four
16 targeted funding announcements, each with many
17 millions of dollars at stake, that were released on
18 the same day last fall, and they all come due. That
19 balloons quarter four.

20 We are talking about ways to even out the
21 funding. I just told you about the incredible
22 amount of merit review work this weekend, and the

1 question is on the table.

2 I think there are pro's and con's to
3 bunching things like solicitations and merit
4 reviews. There definitely are con's, and folks in
5 the science group are talking increasingly about the
6 con's of doing it that way. So, more to come on
7 that.

8 DR. NORQUIST: I think the other issue,
9 Joe, is going to be the staff time. We don't want
10 to have a delay in getting the awards out because
11 the staff is overwhelmed getting the contracts and
12 things out at a particular time. That's just
13 something else to think about.

14 Andy?

15 DR. BINDMAN: Hi, Andy Bindman, Board
16 member, and in some sense a newbie here. I'm going
17 to ask questions that perhaps have already come up.
18 First, I want to say how great it is to have a
19 Dashboard like this. I really commend the work for
20 all of you for putting this together.

21 DR. SELBY: The Board made me do it.

22 [Laughter.]

1 DR. BINDMAN: I just want to think about
2 some of the themes that I think are so important for
3 PCORI, and I'm trying to figure out where it would
4 be extracted from the Dashboard, things like -- it
5 seems like it would be possible from this, but I'm
6 curious how you would think about the Dashboard
7 supporting ways of knowing the speed at which
8 conducting research is enhanced relative to some
9 other traditional approach.

10 Second, the speed at which the evidence is
11 taken up and used to change practice, how that might
12 be reflected in some of these measurements, and also
13 the degree to which or how the research is impacting
14 the communities' ability to further explore the
15 clinical area that it is working in. What is it
16 doing to enhance the capacity.

17 I know there is a box down there called
18 "Impacts," which you are coming to. I assume that
19 is mostly at the front end of the patient and
20 changing practice. I'm trying to think about the
21 sort of speed issues and the process and how that
22 may or may not be reflected in the Dashboard, and if

1 there are ways you think it can either be extracted
2 from what you have here or perhaps additional ways
3 of measuring that that could give you insights,
4 because those are important outcomes, I believe, of
5 PCORI's agenda.

6 DR. SELBY: Good, thanks. We will look
7 into that notion of speed. One thing is you can see
8 in the left box in the middle row, the final reports
9 received when expected. You will see that we are
10 really doing pretty good at getting the final
11 reports in when expected. I will say a lot of
12 those, not all of them, but a number of them did
13 negotiate a year extension. With that year
14 extension, they are coming in. That's not exactly
15 speed, warped speed.

16 You will also see from this that high jump,
17 Andy, in quarter four of 2015 are the pilot
18 projects. Our initial projects that we let in 2011,
19 in fact. We are just beginning to see our CER work
20 coming up. I think in the fourth quarter of 2016
21 and the first quarter of 2017 we will see a very
22 large jump. At that point, we will be able to start

1 talking about dissemination efforts, implementation
2 efforts in those studies.

3 DR. NORQUIST: I think the other thing is
4 on this particular Dashboard, one of the things,
5 Andy, we used to have a very complicated Dashboard,
6 with 5,000 things on here, so we got them to narrow
7 it down. There are other things that are not on
8 here, like engagement awards, some of the uptake
9 they are measuring and things like that about things
10 that have already been published.

11 There is some of that in the background,
12 and even those particular metrics are not up here
13 right now, although they are in that total slide
14 deck. It is a good point about the speed.

15 Steve and then Francis, and then we will
16 have to close this session.

17 MR. LIPSTEIN: Andy, just through the lens
18 of somebody who is leading a health care delivery
19 system right now, there are so many things that are
20 influencing and changing practice and the pace that
21 it would be hard to identify our patient-centered
22 outcomes research influenced at -- it is not a

1 controlled experiment.

2 Even if we could measure somehow
3 dissemination uptake, it would still be hard to
4 attribute it specifically to PCORI funded
5 initiatives. There is just a lot going on out there
6 right now. I don't know how we would run the
7 controlled experiment.

8 DR. NORQUIST: Francis, and then Barbara
9 will have the last word, and we have to stop.

10 DR. COLLINS: Just picking up on a comment
11 that is on slide 33 about benchmarking indicating
12 that late or non-submission to clinicaltrials.gov is
13 high, that is a problem, and that
14 clinicaltrials.gov, a final rule is going to be
15 issued probably fairly soon, and this will then make
16 a very stringent requirement for that to be met.

17 Obviously, PCORI grantees ought to be
18 leading the charge to be compliant with that, given
19 how hard we have worked to try to be sure that
20 information gets deposited.

21 DR. NORQUIST: Thanks, that's critical.
22 Barbara?

1 DR. McNEIL: Great Dashboard. This comment
2 isn't necessarily designed to change the Dashboard,
3 but it does pick up on a comment that was made, how
4 do we know we are making a difference. I wonder if
5 internally we want to do the following, two things
6 actually.

7 One would be to get a sense of what the
8 impact factor is -- actually not a sense, actually
9 get the data on what the impact factor is of the
10 various journals that our articles are being
11 published in. If they are being published in high
12 end journals, that's a big deal. The second one is
13 what is the citation count for each of the articles
14 published.

15 I think both of those would help us a lot
16 in determining whether or not we are making a
17 difference. If something has been cited a lot, it
18 probably means it is getting out there and that
19 would be a big boom to understanding how good our
20 dissemination really is.

21 DR. NORQUIST: Okay. Regina? I'm sorry,
22 Harlan?

1 DR. KRUMHOLZ: I just want to make two
2 quick comments. One is building on what Francis
3 said. Even if the rule is coming out, I think it
4 would be great if PCORI were to dedicate itself to
5 being prepared for a press release on the data that
6 comes out.

7 That will take a little pre-work in order
8 to do that immediately. We are going to be 100
9 percent in compliance with the Federal rule, we are
10 going to be completely aligned with the NIH, and we
11 applaud the movement towards registration.

12 Rather than react and take a month to do
13 that, we could be prepared now so that within 24
14 hours we are coming out with a press release. I
15 just wanted to request that we put in place whatever
16 needs to be done. RTC can talk about that tomorrow,
17 I think, in the open science part of the agenda, but
18 it would be great to be posed to do that.

19 I think with regard to what Barbara brought
20 up, it just opens up this larger thing, which I
21 think at some point we could do, which is how do you
22 judge impact of science. I personally am one who

1 believes the citations are just one narrow way to do
2 that, but there are many other ways to do it.

3 It might be nice for PCORI to lead the
4 charge on trying to think about that, with a
5 position piece. It is something which we can
6 incorporate a lot of different directions about the
7 way in which science can help make a difference, and
8 a way PCORI could provide some fresh air into this
9 current debate or understanding would be wonderful.

10 DR. NORQUIST: Yes, I think more than just
11 the citations. The citations are scientists
12 referencing each other, whether that actually plays
13 out in the real world is a whole other issue.

14 All right. In the next session, we have
15 the mid-year financial review. Larry, Regina, I
16 don't know which of you wants to go first. Thank
17 you, Larry, the Chair of our Finance and
18 Administration Committee, Larry Becker and Regina
19 Yan, who is our Chief Operating Officer, are doing
20 this session.

21 MS. YAN: We are here to brief you on the
22 mid-year financial review. We will be going over

1 our revenue and cash balance as well as all the
2 funding commitments that we have made. We will also
3 review with you our budget versus actual for the
4 first six months of the year.

5 I want to say in previous years we reviewed
6 with you the five months actual, and this year, we
7 are able to actually improve our system and are able
8 to cover six months with you.

9 We will also look at the top drivers, key
10 drivers, for the variance, and we will be looking at
11 our funding commitment plans for 2019 as well as our
12 estimated revenue and expenditures.

13 In the beginning of the fiscal year, we
14 have \$816 million of cash balance, most of that is
15 in the Trust Fund with the U.S. Treasury, a small
16 amount of it is in our operating bank account.

17 During the first six months, we have
18 revenue of \$214 million, \$120 million is in Federal
19 appropriation, \$98 million in CMS transfers. We
20 have a negative adjustment of PCOR fee, mainly
21 because the adjustment between reconciling the
22 actual versus the estimate that is usually

1 transferred to us in August, that conciliation is
2 done in March, so that is reflected in our six month
3 financials.

4 We also have interest income of \$700,000.
5 At the end of the second quarter, end of March, we
6 have a cash balance of \$871 million.

7 All these funds are pretty much obligated
8 because we have made funding commitments of \$1.3
9 billion, which would be paid out through -- right
10 now, we have one award that is through 2021, so
11 these payments will be made throughout the life of
12 those projects, and we have made payments of about
13 \$400 million, but we have \$936 million to pay out
14 for all the projects we have funded so far.

15 Let's take a look at our 2016 budget and
16 also our six month budget versus actual. We know
17 the variance has been an issue for us the last
18 couple of years, mainly because we have so many new
19 activities and we didn't have a lot of historical
20 data that we could go by.

21 Last year at this time I was presenting to
22 you in the mid-year financial review a variance of

1 budget versus actual at 28 percent, and this year,
2 we are right now at 18 percent. That is still not
3 meeting our target because we have set a target for
4 ourselves of 15 percent, but I think we are going in
5 the right direction, so we are very pleased with the
6 progress we have made so far.

7 For the first six months, the budget is
8 \$174 million, actually, it is \$143 million. You can
9 see as far as award expenses is concerned, the
10 variance is 14 percent. Our biggest variance is in
11 program support. I will talk about the details in a
12 few minutes.

13 Program support covers like expenses
14 related to the Methodology Committee, our science
15 department, evaluation analysis, research
16 infrastructure, which is PCORNet, engagement,
17 dissemination, and contract management.

18 Some of that has to do with some lack in
19 personnel costs. We also have some activity that
20 gets delayed. We also have expenses that we
21 budgeted and we found we no longer need that, for
22 example, some funds for a database that we no longer

1 need because we can incorporate it into our bigger
2 database.

3 We have 21 percent variance in
4 administrative support. Part of that is because we
5 have budgeted some contingency for additional office
6 space where we have not needed to acquire additional
7 office space. At this moment, our variance is 18
8 percent.

9 If we look at the 2016 budget, our budget
10 is \$423 million, that's the budget that the Board
11 approved, and the breakdown is among three major
12 categories, one is award expense, 8 percent, program
13 support, 13 percent, and 9 percent, administrative
14 support.

15 If we look at the mid-year point, six
16 months into the year, the proportion between these
17 three categories has not really changed that much,
18 so our expenditure in awards is 78 percent still,
19 and program support, 11 percent, and administrative
20 support, 11 percent. This is one thing we do
21 monitor because we want to make sure that we keep
22 that percentage, which is what we are targeting for.

1 A couple key drivers in the variance. Even
2 though award expense, 14 percent variance, it is 78
3 percent of our total budget and total expense, so as
4 far as dollar amount is concerned, the majority of
5 the variance comes from award expense.

6 We do have some personnel costs, mainly of
7 some of the vacancies we are in the process of
8 filling, and we have some program activities that
9 are being pushed back. The rest is miscellaneous
10 expenses. As I mentioned earlier, there are some
11 contingencies that we have budgeted that we don't
12 need to use.

13 We continue to realize a lot of economy in
14 our meeting expenses as well, and also even though
15 sometimes we meet expenses for outside external
16 meetings, when it is inside, we can actually host a
17 meeting in-house, in our facilities. We do that so
18 we realize economy there as well.

19 This is something you have looked at quite
20 a few times. This is just to remind you of our
21 funding commitment plans for 2019. Our plan is to
22 commit \$2.5 billion, 84 percent of that will be in

1 research, 11 percent, infrastructure, 5 percent in
2 engagement.

3 I want to point out that within that
4 research, that research also includes PCORNet
5 research, so all the PCORNet demonstration is
6 considered research, that goes into the research
7 column, and what you are seeing, the 11 percent is
8 basically just infrastructure support.

9 DR. NORQUIST: Evelyn has a question.

10 MS. YAN: I'm almost done.

11 DR. WHITLOCK: Just a question, under which
12 category does the dissemination and implementation
13 appear?

14 MS. YAN: Right now, we have not included
15 that in this table, but we will be doing it in 2017
16 because starting next fiscal year, we will have
17 major dissemination activities.

18 DR. WHITLOCK: When you do, under which of
19 those categories?

20 MS. YAN: It will be a new column. We will
21 be adding a new column.

22 DR. WHITLOCK: So, it's not accounted for

1 in the \$2.5 billion?

2 MS. YAN: No, it's not. In the next slide,
3 you will see that showing up. Here it is.

4 Our total projected revenue is \$3.2
5 billion, and we talked earlier awards are \$2.5
6 billion. We have a little over \$100 million in
7 dissemination, which is 3 percent of our total
8 revenue and expenditures, it is about 4 percent of
9 total awards, and \$310 million in program support,
10 and \$278 million in general administration.

11 If we break it down, it is about 79
12 percent, close to 80 percent, in award spending, 3
13 percent in dissemination, 10 percent in program
14 support, and 9 percent in general administration.
15 This is what we are projecting through -- with the
16 revenue that we know for 2019.

17 Of course, our expenditures would be spent
18 out through 2024 because that is the time line we
19 are looking at if we are going to make awards in
20 2019, in order for us to support those projects
21 through the end of the life of those projects,
22 looking at 2024. That is the operating time line

1 that we are looking at.

2 Any questions?

3 DR. NORQUIST: Wait a minute. Larry?

4 MR. BECKER: Just a couple of comments.

5 First of all, thank you very much because over time,
6 as you all know, we have gotten finer and finer in
7 terms of being able to predict these dollars, being
8 able to account for these dollars, and that is
9 Regina's team doing that, and on your behalf,
10 Christine, Bob, Kerry and I review this with the
11 team monthly.

12 We get to review these dollars on your
13 behalf and make sure we have those accounting pieces
14 pulled together. Kerry on governance has the Audit
15 Committee. You know the prior audits have all been
16 very, very clean. We are watching that on your
17 behalf. We have very sound financials.

18 As Joe mentioned, the great work that the
19 team did to assure that we are able to get the
20 dollars to PCORI that have been committed through
21 this whole process by the end of our current
22 legislation so that we will be able to deliver the

1 dollars to the researchers that we have committed.

2 Finally, understanding all of this,
3 clearly, we need everybody's help, all the
4 committees, to make sure that we are moving the
5 research, we are being able to do the kinds of
6 things that we are budgeting.

7 You can see, if you have followed the last
8 couple years, we are getting closer and closer.
9 Regina reported about an 18 percent number. We are
10 making great strides in being able to predict what
11 we are going to extend, how much, and to be able to
12 budget that.

13 Thank you to the team and thank you to the
14 entire staff to be able to get this engine moving,
15 because it's been a long road these last six years
16 to do that. I think we are there and I think we are
17 starting to really hit on most of the cylinders.

18 Questions?

19 DR. DOUMA: I have a question.

20 MS. HUNT: Gail Hunt, Board member.

21 DR. NORQUIST: One second, Allen, Gail is
22 next.

1 MS. HUNT: I'm a little dismayed at the 3
2 or 4 percent of the budget that's going for
3 dissemination, and that is going to be in 2017, as
4 you mentioned. I've been concerned all along that
5 we include implementation along with dissemination.

6 It seems to me we are getting short
7 shrifted, and we need to perhaps think about how we
8 could expand that and think about ways other than,
9 for example, citations and journals, that we can
10 move dissemination to actually getting the result
11 into the patients' hands and the primary care
12 doctors. I would just appreciate some discussion of
13 that.

14 MS. YAN: I think this afternoon, there is
15 going to be a presentation.

16 DR. NORQUIST: Yes, we are going to have a
17 discussion this afternoon.

18 MS. HUNT: The discussion that we're going
19 to have, does it make it available to us to say we
20 should have additional funding that is moved into
21 that category?

22 DR. NORQUIST: I think we can have that in

1 the discussion, we can have a conversation about
2 where we move from that point. Allen, it's your
3 turn.

4 DR. DOUMA: Thank you. I'm trying to
5 interpret --

6 DR. NORQUIST: Allen Douma, who is on the
7 phone with us.

8 DR. DOUMA: Allen, Board member. I'm
9 looking at the numbers with regard to the number of
10 unfilled positions, and it looks like there could be
11 as many as 45. Is that correct? Or will be as of
12 April 2016 when 31 new positions open up.

13 Do we have 45 unfilled positions, and if we
14 do, what does that mean with regard to our
15 productivity and with regard to budgeting for new
16 positions in 2017?

17 MS. YAN: Allen, at the end of the second
18 quarter, we did have 40 some positions. Most of
19 them are the new positions approved for this fiscal
20 year to be filled in over time. We also have some
21 turnover, which is a normal thing in organizations,
22 so we are also filling those positions.

1 Right now, we are filling about 5 or 6
2 positions on a monthly basis. I think we continue
3 to make some good progress. Sometimes, some
4 positions take a little bit longer than others.

5 DR. DOUMA: What is our turnover and is
6 that comparable to what we would expect, or is there
7 some greater challenges because of our funding
8 issues?

9 MS. YAN: In our operations benchmark, on
10 Dashboard, the turnover benchmark is 15 percent,
11 which is looking at the industry average. We are
12 right now at about 14 percent.

13 DR. DOUMA: Okay.

14 DR. NORQUIST: Any other questions?

15 [No response.]

16 DR. NORQUIST: Thanks, Regina, very much,
17 and Larry, and the FAC, for the work you are doing
18 also on this. As always, if people have questions
19 or comments in the interim, please get back to Larry
20 and Regina about that.

21 We are just a little behind. Robin, you
22 have the Methodology Committee update. Robin

1 Newhouse is the Chair of our Methodology Committee
2 and will give us an update on the Methodology
3 Committee.

4 DR. NEWHOUSE: Hi, good morning. This is
5 Robin Newhouse. I'm going to update on the
6 Methodology Committee activities.

7 I'm just going to begin. Andy, I will give
8 you all the credit for thanking you for giving us
9 such a wonderful designee from the Agency for
10 Healthcare Research and Quality, and we are happy to
11 welcome Stephanie Chang, who is Director of the
12 Agency Healthcare Research and Quality's Evidence-
13 Based Practice Center Program.

14 She actually received her Bachelor's and
15 her M.D. from University of Michigan, and received
16 postdoctoral training and MPH from Johns Hopkins.
17 She is trained in internal medicine and pediatrics
18 at the University of Minnesota, and is a Board
19 certified physician in internal medicine. We are
20 looking forward to having her join us as we begin
21 the following activities.

22 In terms of an update, I'll update you on

1 the implementation of the methodology standards as
2 well as the public comment period for the draft
3 revisions to the PCORI methodology standards, talk a
4 little bit about how we are coordinating with the
5 Clinical Trial Advisory Panel, and then finish with
6 a couple additional updates, including network
7 research methods work group update, as well as
8 consideration for MC advisors.

9 To get started, implementation of the
10 methodology standards, when we think in terms of
11 implementation of these methodology standards,
12 number one, we are interested in helping
13 investigators understand and use the standards.

14 Second, we want to establish a system to
15 ensure the integrity of research projects so they
16 are of high quality, and also understand the
17 barriers to use of the methodology standards.

18 In terms of helping others and researchers
19 understand the use of the methodology standards,
20 there have been a number of activities that have
21 already occurred. In 2013, after the methodology
22 standards were adopted, there were a number of

1 webinars, to be followed by face to face outreach
2 conferences every three to four months across the
3 nation in 2014. In 2015, the online continuing
4 education program was launched, and in 2016, an
5 academic curriculum was added.

6 In terms of using the standards to ensure
7 the integrity of funded proposals, the methodology
8 standards are integrated throughout the process,
9 from the letter of intent template to the full
10 application. There has also been extensive training
11 not only of the PCORI staff but the merit reviewers.

12 There is a review of the study protocol for
13 adherence to the methodology standards, as well as
14 the PCORI staff are working carefully with the
15 funded investigators and teams in their progress
16 reports to assure compliance with the PCORI
17 methodology standards, and the standards are also
18 included in review of the final research report.

19 I just want to pause to say I give the
20 PCORI staff a lot of credit for this intense
21 activity who have continued to monitor from the
22 beginning of the adoption of the methodology

1 standards the use in PCORI protocols, and when Joe
2 talked in the Dashboard about the quality of the
3 PCORI studies, I have to say this is part of this
4 whole process.

5 In terms of uptake of the methodology
6 standards, these are three graphs. The first one on
7 the left is CME/CE certificates. Of course, that
8 was launched in the fall. These are six modules
9 that are available online. The use has been pretty
10 high, so the first bar was in the first quarter it
11 was launched, 72 certificates were issued. With
12 this second bar being until March, so 32
13 certificates were issued.

14 The major users of the certificate are
15 physicians and nurses with some being awarded to
16 pharmacists, physician assistants, and other
17 participants.

18 In terms of citations, the next bar graph
19 is related to our publication in JAMA in 2012 when
20 the methodology standards were released, and that
21 publication has continued to be highly cited.

22 The last bar graph is related to the web

1 views of the methodology standards, and you can see
2 there was a peak in the fourth quarter of 2015, but
3 the methodology standards continued to be highly
4 accessed via the Web.

5 The next agenda item is public comments.
6 We have revised all of our current methodology
7 standards, those methodology standards were posted
8 for public comment between January and April of
9 2016.

10 We received a total of 84 comments to these
11 methodology standards, and we also had one new
12 standard, and that is designs with cluster, 84
13 comments were received, mostly from health
14 researchers, industry, also caregivers, family
15 members, and patients.

16 These public comments will be guiding the
17 final revisions of the methodology standards that we
18 bring back to the Board for approval.

19 In terms of what the public comments were
20 related to, you can see that most of the comments
21 were related to formulating research questions,
22 patient-centeredness, data integrity, and rigorous

1 analysis, and causal inference. Each one of those
2 comments, as I mentioned, are being reviewed for
3 incorporation into the revisions to the standards,
4 and will be discussed and reviewed by the
5 Methodology Committee before coming back to the
6 Board.

7 Another area of activity relates to our
8 relationship with the Clinical Trials Advisory
9 Panel. You may remember that the Clinical Trials
10 Advisory Panel advises PCORI, PCORI staff, and the
11 Methodology Committee. The work of the Clinical
12 Trials Advisory Panel comes through the Methodology
13 Committee.

14 There is close collaboration. We have
15 members from the Methodology Committee that serve
16 and act in an ad hoc role on the CTAP. They have
17 been involved in a number of activities including
18 advising on strategies for PCORI clinical trials,
19 and they are responsible for also advising on
20 guidance for the conduct of clinical trials, as well
21 as developing position papers.

22 There are complimentary activities of the

1 Methodology Committee and CTAP. The Methodology
2 Committee, of course, is responsible for updating
3 the methodology standards, creating methodology
4 standards, and dissemination of methodology
5 standards, where the Advisory Panel on Clinical
6 Trials has been working on activities such as
7 selection, research design, implementation, and
8 technical issues related to clinical trials.

9 They have a subgroup on recruitment accrual
10 and retention subcommittee, as well as
11 standardization of complex concepts in their
12 terminology subcommittee.

13 Some of their work and recommendations
14 related to recruitment, accrual and retention will
15 be coming to the face to face meeting this week.

16 You may remember that on December 10 there
17 was a workshop, Data Quality and Missing Data Expert
18 meeting, that report from that meeting has been
19 posted.

20 There are a number of activities that are
21 planned in follow up, including potential guidance
22 and standards, webinars and workshop, and

1 collaboration with PCORNet. There are a number of
2 Methodology Committee members that are involved in
3 carrying this work forward.

4 The last item that we have been considering
5 is related to appointing advisors to the Methodology
6 Committee. You may remember that Dr. Clyde Yancy
7 and Sebastian Schneeweiss rotated off the
8 Methodology Committee. We have considered what
9 other expertise we need on the committee, and are
10 also considering appointing a couple of advisors to
11 join us.

12 With that, I'll close, and invite any
13 questions that you may have.

14 DR. NORQUIST: Thanks, Robin. Gail, is
15 that your card up? Others? I know Allen Douma is
16 on the phone, and I think Harlan Weisman is also
17 joining us by phone now.

18 DR. WEISMAN: Yes.

19 DR. DOUMA: Yes. I'd like to ask a
20 question.

21 DR. NORQUIST: Okay, go ahead, Allen.

22 DR. DOUMA: Robin, on your chart, when you

1 show the web views by quarter, do you have a
2 breakdown of what a web view actually means? Is it
3 simply somebody clicking on the front page of
4 something dealing with methodology, or does it have
5 to do with people downloading anything? Do we know
6 what that web view means?

7 DR. NEWHOUSE: I'm going to have to defer
8 that question.

9 DR. DOUMA: Okay. Just a follow up to
10 that, I think the methodology standards is a huge
11 and important sentinel project for PCORI. I'm
12 concerned that it looks like we are sort of petering
13 off with regard to making people aware of it and its
14 value. The CME/CE certificates, given the size of
15 the universe, seems relatively small.

16 Can we talk about how we can promote this
17 better/more in the future than we have been?

18 DR. NEWHOUSE: I do think you're right, it
19 certainly has been disseminated broadly to a number
20 of the dissemination networks, but the uptake, I'd
21 have to say, 100 certificates actually sounds pretty
22 good for a start, but there are marvelous, I think,

1 learning opportunities. They are incredibly well
2 done. We do have to figure out how to make sure
3 that people are aware of what an opportunity this is
4 to learn about the methods.

5 DR. NORQUIST: One question on that, Robin,
6 as a follow up, CME certificates, that's one thing,
7 but we talked before about the classes or things,
8 academic institutions, schools of public health
9 where people are teaching this. What sense do we
10 have about that, whether any of that has been
11 incorporated in curricula around academic sites or
12 things like that?

13 That actually is more important in some
14 ways than how many people log in to get a CME
15 certificate.

16 DR. NEWHOUSE: Yes. I would say the path
17 is sort of dissemination through the networks as one
18 thing, but getting out there to help people realize
19 how it can be used will be the next step, being a
20 little more active with the dissemination.

21 These are incredible resources, both the
22 academic curriculum is new, just launched this year.

1 It is well done. There are training materials.
2 There are PowerPoint slides. There are questions
3 that academics can use when teaching around method
4 standards. We need to do some more work to get the
5 word out.

6 DR. NORQUIST: I think that's a golden
7 opportunity, and particularly perhaps at meetings
8 where methodologists are, things like that, there
9 could be an option to do a presentation or
10 something.

11 Leah and then Barbara.

12 MS. HOLE-MARSHALL: Thank you for that.
13 This is amazing, and I do think it is a sentinel
14 project. We are first on the lead with the product
15 and now we are actually seeing it put into place and
16 used. I think that is great. There is the hope
17 that we can continue to expand how many people are
18 exposed to it.

19 I wonder if there is any way we could get
20 either through a survey or interviews data about
21 whether individuals -- we did acknowledge these were
22 some baseline or minimum standards, and I wonder if

1 folks are feeling like I know this part, and how
2 much of it is that, whether or not they actually
3 apply it and do know it, that they are feeling like
4 I know I have to comply with that, but I think these
5 are basic and I already agree with them, so I don't
6 need to be instructed in them, versus I'm just not
7 interested in this area of research or I didn't know
8 about it.

9 It might be interesting for us to see where
10 the potential uptick really might kind of change the
11 mindset about that, depending on what the issues
12 are. If there are staff available to do key
13 interviews or surveys, that might be helpful.

14 My second question was on NO1 trials, and I
15 don't know if this has been discussed with the
16 methodology group, but it has come up in other areas
17 of PCORI, and it would be great to get some guidance
18 on that, just putting that out there for the
19 Methodology Committee to talk about.

20 DR. NEWHOUSE: Thank you, Leah. I would
21 say that the PCORI staff has done a lot of work in
22 terms of surveys. We can certainly include some

1 more questions, and also understand how the merit
2 reviewers are finding use of the methodology
3 standards as well. Yes, the NO1 trials has been a
4 topic of conversation, so more to come.

5 DR. NORQUIST: Barbara?

6 DR. McNEIL: I think this is great. I just
7 have one question in terms of making our product
8 known better. Robin, do we have any sense what
9 parts of our methods -- I haven't looked at them
10 very recently -- are not covered in the routine
11 biostatistics books or course material that our
12 Master level or graduate students would have access
13 to? What is there that we have that is quite
14 different that we could say ah, if you try to look
15 at textbooks 1, 2, 3, 4, 5, they all have it but not
16 quite in the same way as we do.

17 Just wondering when investigators come to
18 look up -- I'm not sure what kind of analysis they
19 would be doing, they would first pull out whatever
20 the statistics book of the year is. I know what it
21 was in my generation, but I don't know what it is
22 now. That may be a reason for somewhat of a fall

1 off or perhaps not an uptick in the use of these.

2 DR. NEWHOUSE: The methodology standards
3 were not intended to be standards where there was a
4 lot written and it was well adapted or where there
5 was nothing written. They were targeted where there
6 was theoretical or evidentiary basis for the
7 standards. That's the only answer I can give in
8 terms of the basis for the standards in the
9 textbooks at the time, so there was something there
10 related to the standard or it was theoretical.

11 Mike is raising his hand.

12 DR. LAUER: I think it is much more than
13 statistics. Having been involved with putting these
14 together, it covers the entire gamut of research,
15 how it gets put together, how it gets designed, who
16 gets brought into the process, what are the things
17 you have to think about, and analysis is just one
18 part of it.

19 I think that is what is particularly
20 appealing about the standards, that they are so
21 broad-based and comprehensive.

22 DR. NORQUIST: Barbara, anything else?

1 DR. McNEIL: I think that's fine, but it's
2 a little bit of a subtle distinction for the person
3 on the street, to be honest, who is putting a grant
4 together.

5 I'm just wondering if there is a way to --
6 if I were putting in a grant to PCORI on comparative
7 effectiveness on diagnostic test A versus diagnostic
8 test B, I'm not sure that our method standards would
9 be the first place I would go. It may be the first
10 place I should go, but I don't think it would be the
11 first place I would go.

12 I'm wondering if we could make that
13 distinction a little crisper. Maybe I'm imagining
14 things, and this isn't a real point.

15 DR. NORQUIST: Is this a separate point?
16 Okay. Harlan?

17 DR. KRUMHOLZ: Just quickly, Barbara, you
18 are raising a really good point that we have
19 discussed before. One of the questions was whether
20 or not in a standard request there ought to be
21 guidelines, to go along with the application that
22 say did you do this, this, and this, or if you

1 didn't, how did you depart from it.

2 We have so far resisted that, incorporating
3 that in the applications, but I think it is worthy
4 of discussion. I don't know where it goes. It
5 should probably go to a subcommittee first to
6 consider.

7 Barbara, you are raising a really good
8 point, and I think the great content to the
9 methodology report isn't necessarily positioned to
10 optimally influence the applications, and it would
11 be up to us, I think, just to bridge the tools from
12 the really great content and create the enabling
13 structures that say you want to put in this grant
14 the grant is sufficiently structured so it means we
15 are looking for work, and then this is the document
16 that is the information, and this is the form that
17 should be at least checked.

18 I want to balance that with we don't right
19 now have the greatest reputation on the street with
20 our user experience with regard to our applications,
21 so it is about the balance, I think.

22 It's hard, not overly burdening the

1 application but to do it as an enabling structure,
2 it is a question of how it gets done. We probably
3 would want to talk with applicants, too, as a
4 constituency before we implement something like
5 that.

6 DR. NORQUIST: Freda?

7 DR. LEWIS-HALL: Actually, I have a follow
8 on to Harlan's comment, which is I wondered whether
9 or not if we were able to do that, we could actually
10 pull it through to other review committees. That
11 would be a dissemination platform unto itself.

12 If non-PCORI funders were in addition to
13 PCORI funders, and we could find a way to give this
14 consideration without being over burdensome in a
15 process, then we would not only affect those that
16 were seeking PCORI funding but we would be able to
17 perhaps transform what happens in other places where
18 funding is provided.

19 DR. KRUMHOLZ: A quick add on to that.
20 When NIH said here are the five areas that the study
21 section is going to pay attention to, you know when
22 you submit a grant to NIH, you hit each one of those

1 five areas or you risk not getting funded.

2 That clarity and ours could have a little
3 greater specificity. It is like we said in the
4 beginning, move the food and people will follow. It
5 will make a big difference.

6 DR. NORQUIST: Rick, and then we will come
7 back to you, Bob, since yours is different.

8 DR. KRONICK: I just wanted to add that we
9 had the same questions, Barbara, when we were
10 actually making the initial methodology report,
11 which is what novel contributions is this going to
12 have to existing standards and traditional
13 approaches.

14 The answer is we weren't going to
15 contribute anything novel, what we were going to do
16 was emphasize key elements of rigor that would be
17 required by PCORI, and also emphasize the notion
18 that we wouldn't be getting funding to traditional
19 researchers who would have had Master's in
20 biostatistics and epidemiology, but this would be a
21 single go to approach to say this is why we
22 emphasize missing data, this is why we emphasize

1 patient reported outcomes rigor, these are the five
2 different models of comparative effectiveness
3 research, so there is one kind of source one can go
4 to.

5 It wasn't exposed necessarily to
6 traditional methodology, to understand what we
7 emphasized, and then could potentially reach out to
8 experts who were more familiar with those areas.

9 DR. NORQUIST: Thanks. Bob, another topic?

10 DR. ZWOLAK: Thanks, Bob Zwolak, Board
11 member. That was a very nice presentation. Over
12 the past month, Evelyn Whitlock has been
13 enthusiastically trying to educate me about a method
14 called "individual patient data meta-analysis," and
15 I must say her efforts have only been modestly
16 successful.

17 The question is I don't see too much in our
18 standards for that, so it leads me to ask about
19 whether there is an existing portal through which
20 investigators or members of the committee can offer
21 new methods that might be analyzed and added.

22 I know we are looking at some now, but is

1 there an ongoing approach for new suggestions?

2 DR. NEWHOUSE: Yes, there is a portal where
3 we review those recommendations about quarterly, at
4 least when we are ready to develop a new set of
5 standards. We also get input from the field,
6 conferences, those kinds of things, but there is a
7 portal, so anyone can nominate a topic.

8 I would also add we are delighted to have
9 Evelyn, she is very interested in those methods as
10 well. Once again, another topic for the Methodology
11 Committee and more to come.

12 DR. NORQUIST: There are no more comments.
13 Thank you, Robin, and the Methodology Committee. A
14 lot has been done from the days when we first
15 organized, all the work you guys have done. Thank
16 you very much, and we look forward to more.

17 The next topic that we have is
18 consideration for approval of PCORNet Cross-PPRN
19 Research Project Award. Before we get started on
20 this, Joe and Rachael are going to do this, I just
21 want to note that several people are recused because
22 of conflicts of interest from discussion about this

1 and voting, and those people on the Board are Debra
2 Barksdale, Steve Lipstein, Alicia Fernandez, Barbara
3 McNeil, and Andrew Bindman.

4 I'm just saying it first in case you start
5 asking questions in the middle of the presentation,
6 and you are not supposed to do that. Rachael, are
7 you going to do this?

8 DR. SELBY: I will just thank Rachael for
9 presenting, and just remind you this is the last of
10 the PPRN demonstration projects, they came in with a
11 number of individual ones, which have been reviewed
12 and awarded, and this is one that all 20 PPRNs came
13 in on together. I thank Rachael for making the
14 presentation.

15 DR. FLEURENCE: Thank you, Joe and Gray.
16 The consideration for approval here is as Joe said,
17 the last PCORNet/PPRN demonstration project. It is
18 the cross demonstration project which involves all
19 the current PCORNet PPRNs.

20 The purpose of this PSA was to allow the
21 PPRNs to have an unique opportunity to broaden the
22 scope of their research to include topics that were

1 meaningful to the larger participant community
2 across PCORNet. PCORI sought to fund a comparative
3 effectiveness research project that would
4 demonstrate scientific, administrative, and
5 operational capacity for collaboration across the
6 PPRNs.

7 This project also had to address a
8 comparative clinical research question that
9 reflected the shared information needs on decisional
10 uncertainties commonly faced by the collaborating
11 PPRN community. In other words, looking for a
12 question that would be of interest to a broad range
13 of populations across the country.

14 This is the project we are proposing. The
15 project title is "Healthy Mind, Healthy You." The
16 research question is what is the comparative
17 effectiveness of two online evidence-based
18 approaches to using mindfulness to improve
19 wellbeing.

20 The comparators, one is the eight session
21 mindfulness- based cognitive behavioral therapy,
22 also known as MBCT, compared to a three session

1 mindfulness light approach to mindfulness. The
2 study design is a prospective randomized comparative
3 effectiveness trial, and the targeted sample size is
4 8,500 patients.

5 The length of follow-up time is three
6 months. The total budget is \$4 million. All 20
7 PPRNs are collaborators on the project. It will be
8 led by MoodNetwork PPRN, which has deep experience
9 and expertise in running multi-site clinical studies
10 in the area of mental health.

11 A few more words on the study. The
12 outcomes that will be collected are well-being,
13 which is the primary outcome, but they are also
14 collecting perceived stress, anxiety, depression,
15 psychosocial functioning, quality of life, and
16 mindfulness.

17 The specific aims are to determine whether
18 the brief three session mindfulness light
19 intervention compared to the standard eight session
20 MBCT intervention will improve well-being in the
21 PPRN participants.

22 A second aim is to explore the

1 heterogeneity of treatment effects with both
2 interventions, and a third aim is to contribute to
3 the PCORNet Commons, a number of tools and resources
4 that will be developed through these collaborations,
5 and that was an important goal of the PSA as well.

6 The potential impact is to help determine
7 whether a standard intervention such as the MBCT,
8 the eight session one, compared to the brief
9 mindfulness approach can have a clinically
10 meaningful effect on individual participants' stress
11 and well-being.

12 Some examples of contributions to the
13 PCORNet Commons involve Web-based intervention tools
14 for managing stress, depression, and anxiety, as
15 well as lessons learned regarding governance, data,
16 engagement, and dissemination for cross-PPRN
17 research.

18 The slate overview is presented here. It
19 is \$4 million allotted and the proposed total budget
20 is \$4 million.

21 DR. SELBY: I don't think you said this,
22 Rachael, but like all demonstration projects, this

1 is a combination of science and some work such as
2 contributing this work to the Commons, which really
3 falls more under infrastructure, but just enhancing
4 research readiness going forward, and this topic has
5 been reviewed and approved by the Selection
6 Committee coming to the Board meeting today.

7 DR. FLEURENCE: That's correct. I think
8 one of the key demonstration aspects of this project
9 is the PPRNs are communities of engaged
10 participants, patients, caregivers, families, and
11 whether they have already signed off to participate
12 in research, and the question is whether this PPRN
13 community can through outreach and engagement
14 actually recruit 8,500 patients in fairly short
15 order. That is going to be an important proof of
16 concept on the PPRN front.

17 DR. SELBY: Before we move to a motion and
18 vote, any discussion? Larry?

19 MR. BECKER: Aside from the literal
20 project, what does this hope to demonstrate about
21 PCORNet?

22 DR. FLEURENCE: I think on the PPRN side,

1 it has been sort of very clear how we were moving
2 forward in terms of developing the data
3 infrastructure and also the operational and
4 administrative building blocks to conduct research
5 in a way that was different.

6 On the PPRN side, I think we have been
7 searching for what these proof of concepts would
8 look like, and I think the first demonstration is to
9 show sort of how collaborative communities can come
10 together as they did, all 20 came together to
11 collaborate on this proposal.

12 It's really looking to see whether engaged
13 communities that are quite diverse, that come from
14 different kinds of groups, some are located in
15 institutions, academic institutions, others are
16 grassroots patient organizations, others are
17 established registries, others are foundations.

18 It is to see if these PPRN communities can
19 work together to achieve an evidence generation
20 project in a way that has not been done before. I
21 think one of the keys is also the idea that people
22 that have raised their hands to say they were

1 interested in being engaged in research, whether we
2 can actually come through with that and see how
3 quickly they can recruit folks to this trial for
4 this question.

5 DR. NORQUIST: Other questions? Leah?

6 MS. HOLE-MARSHALL: Thank you for that
7 great introduction. Along the same lines related to
8 our lessons learned for PCORNet in general, we know
9 that the outcome of the study will be a report that
10 at least gets logged, but will the lessons learned -
11 - is there a plan for a specific report or document
12 that will help us understand what we did or didn't
13 find?

14 DR. FLEURENCE: All the PCORNet
15 demonstration projects have an evaluation time
16 included in them to sort of assess as they go along
17 what the barriers are, what the lessons are, what
18 the learnings are, so that will be integrated into
19 the work the study investigators need to do, sort of
20 at the same time they are actually conducting the
21 study.

22 MS. HOLE-MARSHALL: That results in kind of

1 a final report about that, a summary?

2 DR. FLEURENCE: Yes, they also have interim
3 reports as well that will be available.

4 MS. HOLE-MARSHALL: Generally speaking, we
5 don't see those and those aren't published, the
6 interim reports. I know there are progress reports
7 that are due under any of the contracts, but those
8 are more for internal monitoring, as I understand
9 it, related to the contracts.

10 DR. FLEURENCE: That PCORNet demonstration
11 projects, we do have an evaluation milestone, which
12 I believe is different from our regular PCORI
13 projects. These can be made available to the Board,
14 certainly.

15 MS. HOLE-MARSHALL: The question I think I
16 have is because we are trying to learn from it, is
17 there a dissemination plan even to the other PPRNs,
18 for instance, or CDRNs that are participating, to
19 say here is what we learned from it, and here are
20 the changes that we are recommending, or no changes?

21 DR. FLEURENCE: More informally every month
22 at the PCORNet Council meetings, there are standing

1 items on our current demonstration projects, and as
2 the PPRN demonstration projects kick off, we think
3 early summer, they will join the standing item where
4 the lessons and challenges get discussed at the
5 PCORNet Council level.

6 MS. HOLE-MARSHALL: We may want to think
7 about a library that is in addition to our open door
8 so researchers that are not involved specifically in
9 the PPRN but are trying to access it would also be
10 able to benefit from these lessons learned.

11 DR. FLEURENCE: Yes, agree.

12 DR. KRUMHOLZ: I just want to say publicly
13 that I want to commend the PPRNs, really people
14 powered research networks, that we put together.
15 Their willingness to work together and to try to put
16 together a proposal that crosses groups and to try
17 to see whether or not they can build this
18 infrastructure and capacity to enroll patients. It
19 is not easy to do.

20 The particular center that is leading this
21 with Andy Nierenberg and his group at MGH is an
22 exemplary center and one with a great track record

1 in the past. The others have come on board
2 together.

3 I just want to say that I think this is a
4 very promising move, that I know the Board has been
5 a lot of consideration about how to continue to
6 strengthen and position this, these PPRNs reflect
7 the very best to the Board to be able to empower
8 individuals to answer the questions that are most
9 important to groups of patients, and in this case,
10 across a wide range of conditions.

11 I just wanted to say publicly that this
12 idea of going across, collaborating, trying to build
13 stronger models that might scale, and even go beyond
14 the funded PPRNs as they stand, is a very good move,
15 and is much appreciated, I think, by the Board.

16 We know this is not easy to try this
17 coordination, and it is nice to see it went through
18 a study section, it went through the Selection
19 Committee, and now is being presented to the Board
20 for approval. I want to say I support it.

21 DR. NORQUIST: Okay. Allen?

22 DR. DOUMA: How were the people involved in

1 selecting the metrics for measuring well-being? The
2 people in our PPRNs, those people that Harlan is
3 referring to. We want to be able to show the
4 engagement of patients and caregivers early on lead
5 to better outcomes in the research. My question is
6 how were they involved in making the determination
7 of how we are measuring well-being, what metrics we
8 are using.

9 DR. NORQUIST: The engagement of the
10 participants.

11 DR. FLEURENCE: Thanks, Allen. Early on,
12 the PPRN leads met together, I believe at least a
13 couple of times, and then started floating possible
14 ideas around that would work for their communities,
15 and then went back to their patient and participant
16 communities to discuss the idea, and there was some
17 prioritization done throughout the different PPRN
18 communities.

19 When the leads came back together, I think
20 there were three options on the table, and this
21 ended up being the optimal study question.
22 Certainly, the application does go into some detail

1 around how the different communities were engaged
2 with the selection of the question.

3 DR. NORQUIST: I think he's not asking just
4 about the question, but the measures for well-being.
5 Standard measures, that the group agreed these were
6 ones they were willing to use.

7 DR. FLEURENCE: That's correct.

8 DR. NORQUIST: Other questions/comments?

9 [No response.]

10 DR. NORQUIST: I need a motion to approve.

11 M O T I O N

12 DR. LEVINE: So move.

13 DR. NORQUIST: Thank you, Sharon. A
14 second? We have several. Okay. We don't have to
15 do a roll call, right, since everybody is in the
16 room?

17 All those in favor, say aye, raise your
18 hand, that would be the easiest way.

19 [Show of hands.]

20 DR. NORQUIST: All those opposed?

21 [No response.]

22 DR. NORQUIST: Anyone abstaining?

1 [No response.]

2 DR. NORQUIST: On the phone? We have the
3 recusals, I have to point that out. Allen, you are
4 not recused.

5 DR. DOUMA: I vote in favor.

6 DR. NORQUIST: Harlan Weisman?

7 DR. WEISMAN: I'm in favor.

8 DR. NORQUIST: Okay, thanks. Just for the
9 record, Debra Barksdale, Steve Lipstein, Alicia
10 Fernandez, Barbara McNeil, and Andrew Bindman were
11 recused. Thanks. Thank you, Rachael, very much.

12 The next and last session before we have
13 lunch is the report on application enhancement
14 efforts. We have several people here. I hope we
15 can do this in the time allotted with all the people
16 and have room for discussion.

17 We have Evelyn Whitlock, who is our Chief
18 Science Officer. Jean Slutsky, our Chief of
19 Engagement and Dissemination, and Program Director
20 for Communication and Dissemination Research.
21 Regina Yan, our Chief Operating Officer, and Bob
22 Zwolak, Chair of the Science Oversight Committee.

1 DR. SELBY: I just want to say first of all
2 that I think Jean or Regina and Bob are going to do
3 the presentation. Evelyn has been very involved in
4 this as well.

5 I want to thank the SOC and its members and
6 its subcommittees for a ton of work over the last
7 year leading up to this and launching, I think, us
8 in a direction that we really need to go, which is
9 to explore every aspect of our application process
10 up to and including merit review, and tweak those
11 things that the research community and our own
12 insights tell us could be improved.

13 MS. SLUTSKY: Good morning. Gray, this is
14 going to make you very happy, we only have six
15 slides, seven if you include the title slide. We
16 have given Evelyn a break since she's presenting
17 quite a bit today.

18 The application enhancement efforts began
19 in 2015 and spanned into 2016. Just to refresh your
20 memory, there were four work groups and committees,
21 and we commissioned an external review. This
22 addressed your concerns about funding announcements

1 through the application process all the way back to
2 giving summary statements to applicants.

3 There were about 45 recommendations across
4 the work groups and the external review, and three
5 overarching principles came from these reports. One
6 was to ensure PCORI culture supports applicant
7 success, to implement change management processes
8 across the continuum, and to improve and increase
9 communication with our external stakeholders.

10 These are the broad recommendation
11 categories. You have these in your background
12 materials. I don't want to read through all of
13 them, but just to let you know it really starts at
14 the beginning and goes all the way through
15 benchmarking our activities with other funding
16 agencies.

17 I just want to talk about what we have done
18 so far on the recommendations and then Regina is
19 going to drill down a little bit.

20 We have organized an internal staff
21 steering committee of stakeholders and decision
22 makers across PCORI. We have categorized the

1 recommendations for implementation using an
2 immediate time cycle, which is cycle three, 2016, to
3 post-August 2016 funding announcements, and then
4 short term, which is cycle one, 2017, to the post-
5 February 2017 cycle.

6 We are also in the process of developing a
7 request for proposal for change management
8 processes.

9 MS. YAN: With the staff steering
10 committee, we focus on a few things. One is we want
11 to make sure that what we do will improve the
12 applicant's experience, and also the application
13 quality. We also want to make sure we improve the
14 process efficiency.

15 We looked at all the recommendations, we
16 prioritized them and put them into two categories,
17 one is immediate and the other one is short term.
18 One thing is we are trying to be very mindful that
19 we don't respond to the concerns that we make
20 changes so frequently by introducing more changes.

21 That is why we want to look very carefully
22 and we want to make sure that what we introduce is

1 going to help the applicant, particularly in
2 experience.

3 One thing we will be doing, we talk about
4 immediate, for August 2016, just a couple of months
5 from now, the commissioned study. We actually have
6 a lot of resource material for applicants, tons of
7 them. They are all on our Web site, but they are
8 kind of hard to find and kind of hard to navigate.

9 So, one thing we do immediately is to do a
10 complete and full review of all the resources and
11 all the guidance materials we have, so that is
12 something we do right away. We hope with that it
13 will make it much easier for our applicants to find
14 information, useful information, that will guide
15 them and help them with the applications. Ease of
16 use and ease to find is going to be important
17 criteria for us.

18 We will also standardize all the language
19 and templates, and occasionally we will have places
20 where we describe things slightly differently that
21 could be confusing to applicants, we want to pay
22 attention to that.

1 We want the templates to be easy to use,
2 and currently, with our broad PFAs, we have multiple
3 templates. We will also be consolidating the PFAs,
4 and they have specific sections for each particular
5 program area.

6 We are also going to start planning our
7 change management process. So, this is for August,
8 just a few months from now.

9 When we talk about short term, we are
10 really talking about Cycle 1 2017, that will be the
11 PFAs that will be posted in February 2017.

12 These are the items that we think will take
13 just a little bit longer to do, but we can do it by
14 February. One is the short term, research plan
15 templates. I know there is a lot of talk about
16 that.

17 We also want to review our PFA cycle time
18 lines. We know a lot of applicants would like to
19 have more time. We are looking to do a lot more
20 work in the pre-announcements, targeted promotion of
21 our PFAs.

22 For the research plan template, it required

1 us to really make adjustments in our system to build
2 that template, and we also want to include our
3 reviewers and our applicants in testing our system,
4 so they can give us feedback as to whether this is
5 an online system that is very easy to use,
6 intuitive, and does not have a lot of duplications.

7 By February, we will implement our change
8 management process, so any time we want to introduce
9 a change, we want to make sure it has gone through a
10 very thoughtful review, that the changes will not
11 cause further burden or unnecessary burden or
12 confusion to applicants.

13 These are the main things we have.

14 Next steps, we will continue to work
15 through SOC as we make progress, we will report back
16 to SOC on the status on a regular basis, and also
17 provide you with additional details in the future.

18 DR. NORQUIST: Bob?

19 DR. ZWOLAK: From my perspective, I think
20 that PCORI is responding to our customers. I think
21 we heard pretty loud and clear that there were
22 concerns about our process and at a variety of

1 levels. We have opened the gates and gotten lots of
2 feedback, including a formal consultant, and I'm
3 impressed the staff has a very cogent and timely
4 plan to respond.

5 I think we are going in the right
6 direction. We have heard negative feedback
7 comparing PCORI's phone system to the IRS where you
8 never speak to the same person when you call, we
9 have heard, I think, newer and better positive
10 feedback.

11 One of my colleagues in Texas said PCORI
12 used to be his worse favorite granting agency, and
13 has now flipped to his very favorite because of the
14 communication with staff that he gets and the
15 appropriate channel feedback that he receives.

16 So, I think this is a process that at least
17 to this point is working well, and I'm impressed
18 that we will implement changes in the very near
19 future.

20 DR. NORQUIST: Sharon?

21 DR. LEVINE: Is this the right group to
22 look at incorporating Harlan's suggestion for a

1 checklist to be incorporated in the application
2 about the methodology standards?

3 MS. SLUTSKY: Yes, it could be. One of the
4 things we will be looking at is the application
5 template itself, and the desire that right now it is
6 very complicated. Also, the IT system behind it
7 doesn't allow similar parts of the application to be
8 populated with the same information, so if you are
9 prompted to enter
10 something --

11 [Whereupon, at 11:48 a.m. the audio feed
12 to the Webcast was disconnected and a
13 luncheon 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.]

1
2
3 DR. NORQUIST: Wow, it's so silent. I want
4 to welcome everyone back. We are now going to move
5 to our next agenda item. This panel that we have
6 next is our Stakeholder Panel, Specialty Physicians,
7 of which there are several of us actually on the
8 Board. This panel is a third of what is now a
9 regular feature of our Board meeting.

10 Today's panel features specialty
11 physicians. The Board looks forward to hearing from
12 them, and I'm going to let Bob Zwolak, who is
13 moderating this panel, to introduce our guests.
14 Bob?

15 DR. ZWOLAK: Thanks very much, Gray. I'm
16 extremely pleased to moderate this afternoon's
17 initial event, which is the Stakeholder Panel with
18 representatives from medical specialty societies.

19 For those who may be less familiar with
20 these specialty societies, the mission statements
21 typically include enhancement of clinical care,
22 education, research, and advocacy for patients and

1 providers. The professional societies thus far have
2 engaged to a variable extent with PCORI.

3 You heard earlier this morning in the
4 proceedings about constructive interactions with
5 radiology and nephrology societies with PCORI, and
6 we are anxious this afternoon to hear the comments
7 of our guests regarding their perception of PCORI,
8 now that we just passed our sixth birthday.

9 We have invited representatives with
10 different backgrounds and different specialties.
11 Dr. Christopher Cox, Dr. Neil Kirschner, and Dr.
12 Richard Schilsky have been kind enough to agree to
13 visit and offer their thoughts this afternoon.
14 Their bio's are in our agenda. In brief, these
15 three individuals have made substantial
16 contributions in their field and to medicine as a
17 whole.

18 Dr. Cox is an Associate Professor of
19 Medicine and Clinical Faculty in Palliative Care at
20 Duke. He directs the Duke Prosper Program and he
21 co-directs the Medical Intensive Care Unit there.
22 Dr. Cox has been active with the American Thoracic

1 Society. He is a multiply published investigative
2 author, and he is PI on a PCORI funded grant.

3 His research involves understanding and
4 improving the critical care experience of patients
5 and their families, which is terribly important. I
6 know we will be anxious to hear his global thoughts
7 and also perhaps some details of his personal
8 experience with PCORI's application process.

9 Dr. Kirschner is a Senior Associate in
10 Health Policy and Regulatory Affairs at the American
11 College of Physicians. Dr. Kirschner manages
12 Affairs at the Epicenter of Patient-Centeredness,
13 which is the medical home and indeed the medical
14 neighborhood.

15 Dr. Kirschner served for many years as a
16 clinical psychologist in Baltimore before moving a
17 bit south to Washington where he was a member of the
18 professional staff of the Senate Joint Economic
19 Committee and House Ways and Means Subcommittee.

20 Thereafter, he joined ACP where he focuses
21 on multiple issues and interfaced with PCORI,
22 including the patient-centered medical home

1 comparative effectiveness and prescription drug
2 abuse. I'm sure Dr. Kirschner will bring some
3 interesting observations to PCORI today.

4 Third in our panel is Dr. Richard Schilsky,
5 an internist and medical oncologist who is Senior
6 Vice President and Chief Medical Officer of the
7 American Society of Clinical Oncology or ASCO, a
8 previous president of ASCO. ASCO is the largest
9 professional organization representing physicians
10 who care for patients with cancer.

11 Dr. Schilsky has held a substantial number
12 of roles during his career with a central theme
13 being focused on clinical leadership. Dr. Schilsky
14 chaired the NCI sponsored cancer and leukemia group
15 B for many years, and he served in a wide range of
16 other roles at NCI. He has also served on advisory
17 panels of the FDA. He is a member of the Board of
18 Directors of Friends of Cancer Research. Dr.
19 Schilsky is certainly in an unique position to offer
20 observations about PCORI.

21 Without further ado, I'd like our guests to
22 offer their comments. We have asked each of them to

1 speak for 10 to 14 minutes, and after they finish,
2 we should have sufficient time for Q&A. We would
3 certainly love to hear kudos about PCORI, it may be
4 more constructive to hear your unvarnished critiques
5 regarding how PCORI is meeting our mission from your
6 perspectives, what you perceive as our gaps, and any
7 specific suggestions you might have for improvement.

8 Thank you. Dr. Cox?

9 DR. COX: Again, thank you all so much for
10 letting me come here. I'll try to speak not just on
11 behalf of ATS, but I'm also a pulmonary doc, and
12 certainly I can't thank you all enough for also
13 giving me personally some PCORI funding. Again,
14 fabulous. We are very excited about the project.

15 I know a lot of folks here probably
16 understand the immense burden that folks with
17 pulmonary and critical illnesses, pulmonary diseases
18 and critical illness, shoulder both in America and
19 globally.

20 Our group, ATS, thoughts from some of the
21 leadership was perhaps this perception of perhaps
22 being relatively overfunded in comparison to a

1 number of other organ systems and what not. I won't
2 mention the gentleman sitting right beside me.

3 They felt it was really important that we
4 emphasize that right now the folks in the ATS, the
5 American Thoracic Society -- there is great
6 enthusiasm for taking on this type of research. We
7 feel like we can make a really large difference
8 because of the readiness of our field for
9 effectiveness and implementation research.

10 Just a quick word about the ATS. It is not
11 just doc's. We have a substantial portion of nurses
12 who are members of our organization. There is
13 probably about 10,000 plus clinicians in the U.S.
14 across every state.

15 I thought what I could do was just briefly
16 touch on some general topics of interest to the
17 group, and then get a little bit more specific. We
18 had a couple of nice calls with leadership of
19 different assemblies within ATS yesterday, and they
20 kind of voiced their thoughts.

21 The ATS is very supportive of comparative
22 effectiveness research. We also feel that right now

1 what we are hearing a lot from community docs is a
2 great interest in trying to translate science into
3 practice at the community level. This is something
4 we are all aware of.

5 We are all aware of our shortcomings,
6 perhaps you all have heard there is a famous
7 critical care study where they actually inflated
8 people's lungs a little less than we had been for a
9 number of years, and that was associated with a
10 remarkable gain in terms of lives saved, yet still
11 years later we are unable to show this has been
12 taken up in the community very effectively. This is
13 just one example of many.

14 We are very interested in pragmatic
15 clinical trials. There is a lot of excitement for
16 this in the scientific meetings we go to. In terms
17 of topical areas, there are three things I was told
18 to speak about.

19 The first is the idea of studies that are
20 this intersection of palliative care with severe
21 pulmonary disease and critical care. A lot of
22 doc's, a lot of clinicians, they keep asking us how

1 do you help doc's and nurses communicate better with
2 families and help them make decisions as partners.

3 Also, there is a lot of interest in
4 diseases that may be less common but are quite
5 resource intensive. For instance, pulmonary
6 hypertension and interspatial lung disease.

7 Some very specific topics now, there is a
8 lot of excitement testing high flow oxygen delivery
9 devices versus non-invasive ventilation in acute
10 respiratory failure, and evaluating in a systematic
11 way EHR embedded tools such as early warning
12 detection systems, which of course in our hospitals
13 nationwide is the causal death of about 50 percent
14 of those who do die in hospitals.

15 Last, just a suggestion for discussion.
16 I'm not exactly sure how this fits in with the
17 mission. There is concern over outcomes measures,
18 actually. We struggle with this. A lot of what we
19 do focuses on restlessness, pain, things of this
20 nature, depression, anxiety, and PTSD. There is
21 just a lot of concern right now. We are not sure
22 what are the best metrics for this in our

1 population. It's hard to get psych metric research
2 funded.

3 That is kind of in the landscape here, but
4 that was one of the things that a number of our
5 members felt were on their plate right now.

6 I wanted to just give a very quick
7 overview, and we would be happy to discuss more
8 maybe after these gentlemen make their statements.

9 DR. ZWOLAK: Thank you very much. We
10 should probably hold questions until the end. Dr.
11 Kirschner?

12 DR. KIRSCHNER: Hi there. I want to thank
13 the PCORI Board and leadership for inviting the
14 American College of Physicians to be here.

15 You can't see it, but they have our
16 pictures right in front of us, it's a little
17 intimidating sitting here with these gigantic
18 pictures.

19 [Laughter.]

20 DR. KIRSCHNER: Consistent with the
21 principle of transparency, which is throughout
22 PCORI, I must admit that I am a proxy today for Dr.

1 Steve Weinberger, our Chief Executive Officer, was
2 supposed to be here but he's caught 10 blocks down
3 here running a major policy meeting, and I'm sure he
4 would do a much better job than I would do, but I
5 will try to uphold the name of the College, and
6 those issues that I am not familiar with, I will
7 clearly link up with as we discuss with the powers
8 that be.

9 The one quote that he asked me to say is
10 that he has always found PCORI to be very open and
11 engaging with physician communities' input and
12 suggestions. You should be aware of that.

13 A little bit about the American College of
14 Physicians. The American College of Physicians is
15 the largest medical specialty organization. It has
16 143,000 physicians and students in internal
17 medicine. Our members practice primary care as well
18 as the internal medicine subspecialties, such as
19 cardiology, oncology, and so on.

20 The College has a long history of interest
21 in comparative effectiveness research beginning in
22 the 1980s with a clinical efficacy assessment

1 program. It began looking at what was called
2 something that looked like comparative effectiveness
3 research at that time, and started looking at
4 clinical practice guidelines to be used by its
5 members and the medical community.

6 Its journal, the Annals of Internal
7 Medicine, is an internationally renown disseminator
8 of comparative effectiveness research, with Dr.
9 Sachs who was the editor of that journal for a
10 number of years.

11 In 2008, the College made a major policy
12 paper concerning comparative effectiveness research.
13 Think of the context in 2008, what was happening in
14 Congress, particularly related to this particular
15 institute. In this policy paper, I will quote, "The
16 College supported the establishment of an adequately
17 funded independent entity to sponsor or produce
18 trusted research on the comparative effectiveness of
19 health care services."

20 Based on that policy position, we testified
21 at a number of congressional hearings, and we are
22 very proud to think we had some small part in

1 advancing the enacted legislation that led to the
2 establishment of PCORI.

3 One thing you should know is from the very
4 beginning the College emphasized the importance of
5 both clinical effectiveness research and cost
6 effectiveness research. We still think that is an
7 important part of a portfolio like PCORI, even
8 though we know that the legislation takes it out of
9 your purview. We think it is very important for
10 stakeholders to have that type of information.

11 Cost effective information and clinical
12 effectiveness information is the foundation for many
13 things that the College is engaged in. Today, we
14 have a very valued care initiative, spend a lot of
15 time and resources, that provides toolkits and
16 resources for our members and the medical community
17 on how to provide high quality cost effective care.
18 Our involvement in the American Board of Internal
19 Medicine's Choosing Wisely program is based on the
20 foundation of comparative effectiveness research.

21 ACP is actively engaged in PCORI. Our
22 members serve on the Board, various committees and

1 panels. They participate in multiple work groups
2 and workshops. We provide comments to you when you
3 send out requests for information. We also have
4 been involved in some research projects that have
5 been funded through PCORI. I'd like to share with
6 you a couple of these that are of interest to me
7 anyway.

8 One is an engagement award that we did as a
9 collaborative with our fellow primary care
10 organizations, so the family physicians, the
11 osteopath's, the pediatricians. It looked at how do
12 our members view comparative effectiveness research.
13 In summary what we found is while the term
14 "comparative effectiveness research" may not have
15 been well understood by a number of our members,
16 particularly the older members, the activities
17 involved were clearly understood, favored and
18 engaged in, such things as comparing the role of
19 effectiveness in the various ways of treating a
20 particular medical condition, looking at using that
21 information for practice guidelines, looking at
22 using that information for shared decision making

1 with patients. This is something that all the
2 members favored and supported and engaged in.

3 The other thing that we found was that in
4 each of the organizations, the preferred way of
5 getting this information was through their
6 organizations, so for the family physicians, the
7 American Academy of Family Physicians, ACP for the
8 internal medicine folks. That preference, and where
9 that preference comes from is perhaps more trusted,
10 they have easy access.

11 I think there is a message for PCORI, that
12 in terms of your dissemination, you should keep
13 these organizations close and use them as much as
14 you can to get this information out into practice.

15 That was one study. The College engaged in
16 an advisory capacity in two other studies that I
17 will align with the College's interests, and I
18 believe we provide a lot of services.

19 One is a project called Project Care Align.
20 I don't know if you are familiar with it. It is
21 attempting to change the perspective of medicine,
22 getting away from treating per se the medical

1 condition, lowering Hemoglobin C or lowering blood
2 pressure, to focusing on the health issues that are
3 important to the patient.

4 What might be important to the patient
5 might be something along the lines of walking my
6 grandchild to preschool every day without getting
7 dizzy, and working on my medical condition should
8 take that as a priority in terms of how it is cared
9 for.

10 Another one that has been as an example
11 that I like very much is it is important to me to
12 have a glass of red wine with every dinner. Well,
13 if you're going to treat me and treat my medical
14 condition, take that into account.

15 That is one of the projects, and they are
16 already engaged in implementing this up in
17 Connecticut as part of the study. Mary Tinetti at
18 Yale and Caroline Blaum from NYU are involved in
19 that project.

20 A second project very aligned with the
21 College's interests has to do with care coordination
22 and transition. Mark Williams at the University of

1 Kentucky has a project, Achieve, funded through
2 PCORI, looking at what transition approaches are
3 most effective and most important and preferred by
4 the patient. The College has been very much
5 involved in providing advice to that particular
6 project.

7 The College is a membership organization,
8 and as such, it controls what our strengths are in
9 terms of how we are best engaged with PCORI. The
10 College and its membership are most helpful, I
11 think, in terms of PCORI, in terms of providing
12 advice, providing feedback, providing comments. I
13 think we are very well aligned to do that.

14 The second thing is dissemination, and I
15 mentioned that before. I think we can really help
16 PCORI get the information out, and I also believe we
17 can serve as an environment where PCORI can deal
18 with a very important issue in terms of trying to
19 find the best ways of getting the information out.
20 We offer a sort of research environment where we can
21 get into our many members' practices and look at
22 ways in which things they hear, they are actually

1 engaged in. I think that is an important element I
2 feel you folks should look into.

3 The last thing that we do very well is take
4 information provided by PCORI and other entities and
5 put them into clinical practice guidelines to be
6 followed by our members and the medical community in
7 general.

8 As an organization, we are proud to be
9 associated with PCORI. We are pleased with the
10 progress the institute has made in fulfilling its
11 mission up to now, and we look forward to continuing
12 success in providing important information to all
13 stakeholders in the future.

14 There are some areas that I hear from our
15 staff and our members that we need to sort of look
16 at. Your funding approach. Apparently, there are a
17 number of funding streams within PCORI, and our
18 membership reports at times that it is hard to
19 figure out which funding stream is most appropriate
20 for which type of research.

21 We would recommend that you perhaps look at
22 that issue. Once the appropriate funding stream is

1 clear, we have heard from some of our membership
2 that they feel you could streamline the actual
3 application for the funding experience. I think you
4 would get more engagement of the physician community
5 doing that.

6 We heard you have an ambassador program,
7 and apparently the ambassador program works really
8 well for those projects that are directly being
9 funded. ACP advises basically, we are partners in
10 an advisory capacity.

11 Our ambassador happens to be the head of
12 our Center of Patient Engagement. She has a lot of
13 knowledge and information that I think would be of
14 help to PCORI, but her feeling is her involvement up
15 to this point, and this is a quote, "Has been
16 relatively meaningless," and we would encourage that
17 for the various ambassadors, more emphasis be made
18 in terms of their engagement.

19 I heard feedback in terms of when
20 information or advice has been given, it's been
21 accepted very well, but we think more can be done in
22 terms of sending feedback back to the feedbacker in

1 terms of how useful the information was, what has
2 happened to it, what has been the effect of that
3 information.

4 I think I've said my 12 minutes of
5 comments, and I will pass it on to our next speaker.

6 DR. ZWOLAK: Thank you very much. That was
7 terrific. Dr. Schilsky?

8 DR. SCHILSKY: Thanks so much. Like my
9 colleagues here, I want to thank you for the
10 invitation to come and meet with you today, and also
11 start with a bit of an apology, which is just to say
12 that I was out of the country all week last week, so
13 I really didn't have an opportunity to prepare as
14 much for this meeting as I might have, I didn't get
15 home until late last night. I have prepared
16 remarks, but I am going to offer some perhaps random
17 reflections, hopefully still somewhat coherent after
18 the long travel day yesterday.

19 I have noticed, of course, and Dr. Cox has
20 alluded to the fact that a large proportion, maybe
21 now the largest proportion of PCORI funding, is
22 going to support cancer research. I think that is

1 largely a reflection of several things.

2 One, of course, is the continuing unmet
3 medical needs that many cancer patients have, but
4 also it is a reflection of a much greater
5 opportunity now than ever before to actually conduct
6 comparative effectiveness research in cancer because
7 there are in fact more treatment options, more
8 choices, and more things that can be compared than
9 ever before, when there were few or no choices for
10 how to treat a patient with a particular type of
11 cancer.

12 There really wasn't much need for a
13 comparative effectiveness research. It was really
14 more about discovery research and clinical
15 effectiveness research, bringing new treatments
16 forward.

17 Now for most every kind of cancer, we have
18 not only one but multiple therapy options in each
19 line of therapy, and in fact, when you add to that
20 the enormous cost of many cancer treatments these
21 days, guiding patients through a discussion about
22 what is the best possible treatment option for them,

1 given their clinical status, their preferences,
2 their goals, and their financial resources, is more
3 important than ever before.

4 Having data available to oncologists from
5 comparative effectiveness research studies can
6 really be valuable in helping to guide those
7 discussions.

8 Like ACP, I'm sure ATS and ASCO produces
9 clinical practice guidelines, we have been in the
10 guideline business for 20 some years. Our
11 guidelines sort of are known for going deep but not
12 broad, so we have guidelines that are not across all
13 types of cancer, all lines of therapy, but
14 guidelines to try to address genuine clinical
15 conundrums, areas of genuine uncertainty that
16 oncologists face every day.

17 What we find, and what I'm sure what most
18 guideline development organizations find, is that
19 although we attempt to base our guidelines on high
20 level evidence from well conducted prospective
21 clinical trials, it is very difficult often times to
22 get the necessary data from the literature because

1 it simply doesn't exist.

2 Even the NTCN, which produces much broader
3 cancer guidelines than ASCO produces, acknowledges
4 that only about 15 percent of their guideline
5 recommendations are based on level one evidence from
6 the medical literature.

7 There are huge gaps in our knowledge that
8 we simply can't fill by continuing to do the
9 traditional prospective randomized clinical trials
10 because the trials are too expensive, they take too
11 long to get endpoints, and in cancer these days, as
12 I'm sure you are aware, every common cancer is now
13 becoming a collection of rare cancers, as we
14 continue to molecular subtype various sorts of
15 cancer, we are now going from a very common cancer
16 like non-small cell lung cancer to mutated non-small
17 cell cancer, which is two percent of non-small cell
18 lung cancer, or loss mutated non-small cell lung
19 cancer, which is one percent of non-small cell lung
20 cancer.

21 It is extremely difficult to do the types
22 of prospective randomized clinical trials that have

1 typically been necessary to advance the field when
2 every tumor type now becomes a type which is
3 actually difficult to find patients for study.

4 Our patients now have more choice, they
5 have longer survival, and as I mentioned, they are
6 confronted with lots of financial concerns. ASCO in
7 recent years has been very focused on this whole
8 question of value in cancer care.

9 Last June, we published our conceptual
10 framework for assessing the comparative value of
11 cancer treatments, published in our journal. We
12 will be publishing next week an update or revision
13 to that, which reflects comments we have received on
14 the first version of the framework that was
15 published last June.

16 Among the comments that we received,
17 including comments prominently from patients, was
18 the fact that the framework, which is based upon
19 sort of common clinical measures of clinical
20 benefit, toxicity, improvements in quality of life
21 and so on, doesn't contain enough patient-centric
22 outcomes in the value framework.

1 We agree that it does not contain that, and
2 it is not because we are not interested in it and
3 wouldn't like to sort of use patient-centric outcome
4 measures to help frame the value discussion. It is
5 really because there is still in the cancer clinical
6 trials literature relatively few patient reported
7 outcomes that are captured or reported.

8 Our value framework is really based on an
9 analysis of published clinical trial data. If it is
10 not part of the clinical trial publications, whether
11 it is collected or not, we have no access to it, and
12 we can't build it into the value framework
13 proposition.

14 Certainly, my hope is that as cancer
15 researchers and clinical trialists and product
16 developers continue to bring forward new advances in
17 cancer treatment, that they will be able to
18 incorporate more patient reported outcomes that will
19 rely in part on groups like PCORI to work with our
20 community to develop the appropriate outcome
21 measures that really reflect what is important to
22 patients.

1 You have already heard this from Dr.
2 Kirschner, the issue of dissemination. Of course,
3 ASCO has many dissemination vehicles. We have
4 multiple journals. We have multiple Web sites. We
5 have many meetings. Our big annual meeting is
6 coming up in about 10 days from now. We will have
7 roughly 40,000 people in the convention center in
8 Chicago to hear what's new and what is happening in
9 cancer.

10 We still have evidence that even things
11 that are known to be highly effective in cancer
12 treatment are still not well disseminated into
13 practice.

14 We saw a publication recently in our
15 journals suggesting that there are great disparities
16 in the prescribing of Herceptin to women with HER2
17 positive breast cancer, even though Herceptin is the
18 most effective treatment that has been developed for
19 HER2 positive breast cancer. In many cases, there
20 are women, typically minority women, who are not
21 getting access to that treatment.

22 This year, we will have an abstract at the

1 meeting showing that for women who are BRCA1
2 carriers, whether or not they are offered so-called
3 risk reducing surgery, prophylactic mastectomy, and
4 so on, is dependent to some extent it seems on
5 racial and ethnic considerations.

6 A study of a report or analysis of a large
7 registry essentially showed that African American
8 women were less likely to be offered risk sparing
9 surgeries than either white or Hispanic women. A
10 very important red flag that we need to understand
11 and pay attention to.

12 Again, it emphasizes the need for
13 disseminating what is known to be effective into all
14 segments of our community, and that is clearly an
15 area of high interest to PCORI, but I think again
16 deeper engagement with the medical professional
17 societies, hopefully, we have mechanisms to reach
18 our constituencies, our communities, our patient
19 populations, that can supplement and build upon and
20 enhance what PCORI also has available.

21 We can also determine the extent to which
22 the desired best practices are actually being

1 incorporated into clinical practice. ASCO has had
2 for many years a quality improvement program that we
3 call "QOPI," the quality oncology practice
4 initiative, which is an oncology self assessment
5 program where we publish quality measures based on
6 our guidelines and other evidence in the medical
7 literature.

8 Those measures are used by oncology
9 practices to assess their performance against those
10 measures. We send them twice a year a report card
11 on how they are doing in meeting the quality
12 measures, and we can incorporate into our quality
13 measure development things like the recommendations
14 from the Choosing Wisely campaign, which we also
15 participate in, or recommendations for new research
16 findings that might be disseminated through PCORI
17 research that we believe should be a change in
18 medical practice, and we can determine whether in
19 fact medical practice is changing in the desired
20 direction.

21 We are building now what we consider to be
22 a major defining initiative probably for the next

1 decade, an attempt to develop a rapid learning
2 system for oncology that we call CancerLinQ. It is
3 an acronym that stands for Learning Intelligence
4 Network for Quality.

5 CancerLinQ is basically an initiative to
6 collect the complete electronic medical record from
7 every cancer patient in every practice in America
8 that wishes to participate in the program.

9 CancerLinQ is being deployed right now.
10 There are medical records being collected as we
11 speak from all around 30 or so vanguard practices
12 around the country. We will announce at our meeting
13 probably that roughly a million patient medical
14 records or medical records of roughly a million
15 patients have already been collected in the
16 CancerLinQ platform.

17 The goal is to over time make that many
18 millions of records and to follow up on those
19 patients prospectively and longitudinally.

20 CancerLinQ will itself become an important
21 vehicle for doing comparative effectiveness research
22 based on real world data. We will be able to use

1 CancerLinQ as a platform for doing registry-based
2 clinical trials.

3 We will be able to use CancerLinQ as a
4 mechanism to identify cohorts of individuals with
5 similar characteristics who receive different
6 treatments and monitor their outcomes. We will be
7 able to look at outcomes of patients who are not
8 customarily included in cancer clinical trials, like
9 older patients, like patients with significant organ
10 dysfunction or other comorbidities.

11 We are very optimistic about the impact it
12 may have on our profession over time.

13 I don't have a lot of recommendations to
14 offer, but I will make a few comments. I still
15 think that to a great extent PCORI is a fairly well
16 kept secret, rather unknown in the broader oncology
17 community.

18 I looked this morning on the Web site at
19 the portfolio of some of the cancer related projects
20 that are being funded. They are wonderful projects.
21 I wonder if perhaps some of the reason that PCORI is
22 not getting the attention perhaps that it deserves

1 is that many of the projects that are being funded
2 are related to issues of patient assessment, patient
3 surveillance, follow up strategies, supportive care
4 measures, all of which are important, but what tends
5 to get the attention of most medical oncologists are
6 studies that relate specifically to cancer
7 treatment. I think there are still relatively few
8 of those in the portfolio. Hopefully, there will be
9 more as time goes by.

10 I think the issue of having to navigate the
11 PCORI Web site -- by the way, I want to compliment
12 the team that put that together, I thought it was
13 remarkably clear where the goals are very well laid
14 out, and the priorities are very well laid out, the
15 process is well laid out.

16 The PCORI parlance and how you describe
17 your grant portfolio and the types of applications
18 you have and so forth was unique and sufficiently
19 different from typical NIH terminology that I think
20 many people still find a bit confusing, and the
21 comment was made about people not quite
22 understanding which funding mechanism is appropriate

1 for which kind of research, and I think you need
2 some greater clarity around that, and that would be
3 important.

4 One specific thing I wanted to offer just
5 based on my own experience in the last few years at
6 ASCO, we get a lot of requests from PCORI applicants
7 to provide letters of support for their
8 applications.

9 Most of them end up on my desk. The
10 request is typically something along the lines of my
11 colleagues and I are writing a PCORI application
12 with the following title, as ASCO is an important
13 stakeholder group for this application, we would
14 love to receive a letter of support from ASCO to
15 include with our application.

16 I get a lot of those letters. We never
17 just spontaneously dash off some letter of support.
18 My view at least is that if ASCO is actually going
19 to endorse an application in some way by writing a
20 letter, we need to actually understand what the
21 application is about, whether we believe it is
22 meritorious, understand what its potential impact

1 could be, and perhaps most importantly, I like to
2 insist that the applicants that actually explain to
3 me what in their minds it means when they say ASCO
4 is an important stakeholder.

5 Of course, if it's related to cancer, we
6 are a "stakeholder." We represent all the
7 oncologists in the country and more importantly,
8 their patients.

9 Almost anything that has the potential to
10 improve the outcomes for cancer patients, we might
11 have a stake in. In order for us to submit a letter
12 in support of an application, I like to have some
13 understanding from the applicants of what exactly do
14 they want us to do in support of their application
15 other than be on a periodic conference call with 25
16 other people that they have persuaded to be
17 stakeholders.

18 I don't want to prolong this. The usual
19 response is well, you know, if we publish anything,
20 we would like it to be presented at the ASCO
21 meeting. My response is great, we have a whole
22 process for that. You can write an abstract, it

1 will go through our process. If it is selected for
2 the meeting, we will be delighted to have you
3 present it. What exactly do you want for us to say
4 we are a stakeholder in your research.

5 On some occasions, I am actually successful
6 in working with the applicant hopefully to actually
7 offer some support from ASCO that we believe will be
8 meaningful, that will actually help to recruit
9 doctors or patients to participate in a study or to
10 engage in more meaningful ways in disseminating
11 their results.

12 I will tell you there is one thing that you
13 can do that would help me out, to try to be clear
14 with our applicants about if you are asking them to
15 provide documentation that there is engagement by
16 the stakeholder community, to be clear what kind of
17 documentation of that you are looking for, more so
18 than just some cursory letter.

19 DR. KRUMHOLZ: Can I ask a point of
20 clarification. This is really useful, that is why
21 we wanted you guys here. Can you just tell us what
22 happened? You keep going around it. I don't know

1 quite what you are saying.

2 DR. SCHILSKY: That is what typically
3 happens. We are writing an application, it is due
4 next week, we would love to have a letter of support
5 from ASCO, here is the title of the application,
6 here is the investigators, can't wait to get your
7 letter.

8 I'm sure you have all been there.
9 Sometimes we get an abstract of what the actual
10 grant application will be. Occasionally, and
11 usually if I ask for it, we will get specific
12 objectives. It is a far less than optimal process.

13 DR. KRUMHOLZ: I don't understand. You are
14 saying PCORI is coming to you?

15 DR. SCHILSKY: No, no, the applicants.

16 DR. KRUMHOLZ: Why aren't you telling them
17 no?

18 DR. SCHILSKY: Well, because in most cases,
19 we do tell them no. In some cases --

20 DR. KRUMHOLZ: Are you saying we should be
21 telling them to reach out --

22 DR. SCHILSKY: No, what I'm asking, and

1 sorry if I'm unclear --

2 DR. KRUMHOLZ: I'm sorry to interrupt, I
3 just want to make sure I understand what it is you
4 are asking.

5 DR. SCHILSKY: For the applicants in many
6 cases are under the impression, which I assume is
7 accurate, that they are asked to provide some sort
8 of documentation with their applications of
9 stakeholder engagement, broadly speaking.

10 This is what I'm asking you to clarify
11 because I think the applicants are unclear on what
12 you, PCORI, are asking them to provide as
13 documentation of stakeholder engagement.

14 They think if they get a letter from a
15 medical professional society that represents that
16 group of doctors or patients, that represents
17 stakeholder engagement. What I am saying is when
18 they come to me with that, I push back on that. I
19 say if you want genuine stakeholder engagement, you
20 need to engage us earlier, you need to think about
21 the many ways we could possibly help to advance your
22 project.

1 DR. KRUMHOLZ: We should make you an
2 honorary member.

3 [Laughter.]

4 DR. SCHILSKY: Don't come to us at the last
5 minute. In many cases, we don't provide these
6 letters. When we do, we do it because we believe we
7 can be genuinely helpful to the applicants. That is
8 my key point, and why I think some greater clarity
9 in communicating to the applicants what you would
10 like to see as documentation of stakeholder
11 engagement would be very helpful.

12 I think I'll stop there, but I'd be
13 delighted to have some further dialogue.

14 DR. NORQUIST: Since we have started into
15 the discussion, why don't we open it up, Bob, unless
16 you want to make some final comments.

17 DR. ZWOLAK: I want to thank you. I think
18 we could probably spend the next three hours with a
19 Q&A session. I think we have about 20 or 25
20 minutes.

21 DR. NORQUIST: Yes, we have actually about
22 15 or so. Why don't we open it up for Board

1 comments. I think the last point, we would
2 certainly hope that is not what we mean by
3 "engagement," just simply getting a letter from you,
4 and certainly we hope it comes out in the review
5 about what is it really, how much of an engagement
6 is this. That would not be satisfactory just to
7 have a letter.

8 Dr. Kirschner?

9 DR. KIRSCHNER: I just want to join in the
10 comments about the letter of engagement and to
11 clarify what is actually being asked for, and what
12 you expect. We ran into the same problem. We get a
13 number of people who write and say we want you to be
14 on an advisory panel or something, to somehow
15 support this research. It is difficult to deal
16 with.

17 DR. NORQUIST: Maybe I will put Jean
18 Slutsky on the spot here. Jean, since you are our
19 Chief Engagement Officer, you may want to say
20 something.

21 MS. SLUTSKY: First of all, generally those
22 applicants that do that don't fare very well in

1 merit review. We actually have review criteria that
2 speaks to how the applicant describes their engaged
3 partners and we have a lot of supporting materials
4 to guide them through on developing an engagement
5 plan, models of engagement.

6 I will say that our merit review panels are
7 pretty astute at seeing through letters of support
8 as being just what they are, usually they are
9 written by the applicant for the organization, and
10 we have all been there, right, either on one side or
11 the other, as funders or applicants.

12 Rest assured that when you get those
13 requests, you are probably not tying your ship to
14 the most successful applicant. You are exactly
15 right, you should be dubious about those types of
16 requests.

17 DR. NORQUIST: One thing that may be
18 helpful to save you time of even writing the letters
19 or responding is when they come up and say PCORI has
20 these certain requirements, I don't think you have
21 met those, you need to go back and look at their
22 site, and in working with them, we can help them,

1 and maybe get some of these letters to not even show
2 up on your desk, and save you some time.

3 MS. SLUTSKY: On the funding opportunity
4 page on the left side, it is all listed out, all the
5 resources for successful engagement.

6 DR. NORQUIST: Leah?

7 MS. HOLE-MARSHALL: For Jean, do we have
8 examples included in those tools?

9 MS. SLUTSKY: We actually have sample
10 engagement plans. We want people to be successful
11 with engagement. What we don't want is exactly what
12 you described.

13 DR. NORQUIST: Larry?

14 MR. BECKER: What I think I heard is two
15 really important things. The first one was that we
16 need to do a better job of once gaining input from
17 each of you, feed back on that input, where did it
18 go, what did it mean, what did it entail or create.

19 The related point I think I heard was okay,
20 now that we have some results or as results start to
21 come, you are each uniquely positioned to be able to
22 take that and translate that to your organizations,

1 your patients, your clinicians, your letter, in
2 order to make sure that gets implemented in an
3 effective way.

4 I think it is incumbent upon us to figure
5 out how do we fix the first, how do we engineer the
6 second, and what can we do as partners so that it is
7 easy for you when those things come.

8 DR. NORQUIST: Barbara?

9 DR. McNEIL: Thank you very much. I have
10 one question for Dr. Schilsky. You mentioned a
11 number of PCORI applications dealt with oncology,
12 and that is totally understandable. This is a
13 request for you that I think would benefit a lot of
14 potential applicants.

15 It strikes me a lot of the comparative
16 effectiveness studies that might be done in oncology
17 relates to pharmaceutical therapy. The sample sizes
18 there, given that the patient populations are
19 getting smaller and smaller, and genetic mutations
20 are getting larger and larger.

21 It would be very nice and helpful to
22 investigators if you could use ASCO's power to get

1 Medicare data released in a more timely fashion, and
2 Part D data released in a more timely fashion.
3 Otherwise, there are not going to be any real data
4 that are robust enough to answer some of the
5 critical comparative effectiveness questions that
6 need answered, right?

7 DR. SCHILSKY: I couldn't agree more, but
8 we will go you one better because in short order we
9 will have CancerLinQ data, which is far more
10 granular than the claims data that is available from
11 Medicare.

12 In fact, all of that data collectively,
13 where CancerLinQ will actually have the medical
14 record on patients for whom Medicare has the claims
15 data and so on, and we had multiple conversations
16 already at NCI with the SEAL program about how we
17 can begin to align these programs.

18 Peer data, as you may know, is largely
19 based on hospital admission data. CancerLinQ data
20 will be based largely on outpatient, and the
21 opportunity will be very complimentary.

22 I take the point. We can certainly talk to

1 our colleagues about making this Medicare data
2 available in a more timely fashion, but I think over
3 time, we will be able to do it better than that.

4 DR. NORQUIST: Alicia?

5 DR. FERNANDEZ: Thank you. That was really
6 interesting and I think very helpful for us as we
7 think about moving forward. I have a couple of
8 questions, and don't want to put anyone on the spot,
9 but let me do that. This notion that I happen to
10 agree with that PCORI is a little bit of a well kept
11 secret among many of our specialist colleagues. I'm
12 a primary care internist.

13 What do you think, and perhaps you can
14 address this issue of what could we do differently
15 to encourage particularly clinical trials in
16 oncology and medicine subspecialties?

17 There is another well kept secret, it is
18 called PCORNet. I was wondering if you had heard of
19 it, and also whether there had been any discussions
20 about any way it can link or not link or whether
21 that had come up at all, and please don't feel shy
22 about saying no.

1 DR. SCHILSKY: I know time is short. Yes,
2 I've heard of PCORNet. I must say I don't really
3 have a good sense of where it is in its development,
4 what it does, how it operates, what its focus is,
5 things of that sort.

6 We certainly have had discussions
7 internally at ASCO, and I think probably indirectly
8 with Joe, about the opportunities going forward to
9 somehow develop relationships between PCORNet and
10 CancerLinQ, but as both are very much in
11 development, I think we haven't gotten very far in
12 envisioning what those relationships might look
13 like.

14 With respect to what can PCORI do to make
15 itself better known in the oncology community, I'd
16 like to spend a little more time thinking about
17 that. ASCO and I'm sure the other professional
18 societies represented here are friends of PCORI. We
19 want PCORI to be successful. We see great
20 opportunity for PCORI.

21 I think the more that we can do to help
22 PCORI become better known and more visible and more

1 easily navigable to our own constituencies, we would
2 be happy to do it.

3 DR. NORQUIST: Why don't we go to the other
4 two and get your feedback. I think one of you said
5 what is really key is the importance of involving
6 the organization. Dr. Cox and then Dr. Kirschner.

7 DR. COX: I think something that might be
8 really effective is something Dr. Selby has done
9 some with JAMA and the New England Journal, but
10 positioning a very explicit statement in our key
11 journals. I think that is a great way to reach out
12 to the research community, at least the American
13 Thoracic Society, and a lot of eyes see that sort of
14 thing. I think that might be the most effective to
15 be honest, and a pretty simple thing to do.

16 DR. FERNANDEZ: My specialty colleagues
17 don't actually read -- they read their specialty
18 journal.

19 DR. KIRSCHNER: I agree with the statement
20 the Chair said, it all goes to knowing what is
21 happening within the association and seeing how
22 PCORI can get involved. For example, two weeks we

1 had a meeting of our Council of Subspecialty
2 Society. These are all the internal medicine
3 subspecialties, representatives from each one of
4 them, 25 different societies.

5 It has been going on twice a year, it's
6 been going on with the entire engagement of PCORI,
7 never had a request about PCORI at the meeting. I
8 think that would be an excellent opportunity for
9 PCORI.

10 There are probably other sources in each
11 one of these organizations in which you can do that,
12 but it all gets under the rubric of knowing what
13 resources are available to you, which means reaching
14 out to the associations and spending some time with
15 them and seeing what they have to offer.

16 DR. NORQUIST: I think it is an ongoing
17 kind of engagement. One of the things, particularly
18 with CancerLinQ, it represents psychiatrists. I'm
19 at the American Psychiatric Association, I've helped
20 them. They are formulating a registry. A number of
21 the professional organizations are forming these
22 registries.

1 At some point, this opportunity to do a
2 linkage across those and these other large
3 infrastructures is really going to be critical
4 because I know we surveyed a number of professional
5 organizations before we built ours to see what the
6 issues were, but everybody is basically getting into
7 this business.

8 DR. SCHILSKY: I think you are exactly
9 right. We have begun to reach out across sort of
10 the oncology spectrum if you will. CancerLinQ will
11 also be the platform that the American Society of
12 Radiation Oncology uses as its registry, so we will
13 have a direct linkage with them.

14 We are in discussions with the various
15 surgical oncology societies, the American College of
16 Surgeons, and whether we can create linkages to the
17 National Cancer Database they have had in existence
18 for many years.

19 I mentioned discussions we have had ongoing
20 with SEAR, whether or not the data that SEAR
21 collects could actually flow to them through
22 CancerLinQ as CancerLinQ continues to be expanded

1 across the country and so on.

2 I think we would welcome opportunities for
3 further discussion with PCORI. One of the issues
4 for us, of course, is that if we are going to be
5 able to capture the complete picture of the cancer
6 patient experience, we actually need to collect
7 information from other medical specialists because
8 the cancer patient who develops a chemotherapy
9 related cardiomyopathy and sees a cardiologist, we
10 would like to get that information into our record.

11 The patient who develops hypothyroidism as
12 a result of a kinase inhibitor therapy, sees an
13 endocrinologist, we would like to get that
14 information into CancerLinQ.

15 Of course, cancer, because it is not organ
16 specific and it has the potential to affect
17 essentially any organ in the body, we need to make
18 these connections, and also with respect to
19 survivorship because as cancer patients continue to
20 live longer off treatment, and they have continuing
21 medical problems related to their cancer diagnosis,
22 they see other medical specialists.

1 They return to the care of their primary
2 care physicians, and their complete cancer journey
3 will never be captured in even something that we
4 view as being as comprehensive as CancerLinQ.

5 So, I couldn't agree with you more.

6 DR. NORQUIST: I think it's a huge
7 opportunity. The other issue that we discussed, it
8 is also debilitating sustained based platforms, too,
9 if we start to interlink together as well, because
10 they are very expensive to get going. Alicia?

11 DR. FERNANDEZ: A follow up question,
12 because it speaks to other discussions we are
13 having. Could you give us a sense of how much you
14 think this will cost, this CancerLinQ, and how you
15 are funding it?

16 DR. SCHILSKY: So far, we have been
17 actively building it for about two years now, so far
18 we have expended about \$20 million. Our initial
19 estimate is it is going to cost around \$50 million
20 to get it up and running and populated with a
21 sufficient number of cases to actually then be able
22 to start to make some analyses.

1 Right now, it's been funded from a
2 combination of ASCO's internal resources and private
3 philanthropy that our Foundation has raised, but as
4 we pointed out, we need a sustainable business model
5 for it because it has to be able to stand on its own
6 two feet over time as it develops.

7 DR. NORQUIST: Sharon?

8 DR. LEVINE: I guess a comment and a
9 question. I think your observation about the fact
10 of looking at the portfolio of cancer research we
11 have funded is somewhat different than the
12 oncologists typically look for, and that is
13 intentional.

14 I think from the standing up of PCORI, the
15 intent was to fund research that others were not
16 going to be likely to do with a patient-centered
17 focus. The perspective of the patient and outcomes
18 that matter to patients has been a core part of
19 this, which is probably why it is coming up against
20 some traditional notions of what cancer research
21 ought to be.

22 I think the second thing is one of the

1 challenges in doing head to head trials of drugs in
2 cancer is the price of the cancer drugs. PCORI
3 doesn't have enough money. I'm not sure Treasury
4 has enough money to fund those kinds of trials to
5 get the kinds of information you would love to have.
6 That's my comment and my bias, I guess.

7 My question is in terms of CancerLinQ, you
8 said a billion medical records. I'm assuming, are
9 you building a platform to query practices where
10 there is a research question? I'm not sure what you
11 meant by you will have a billion medical records.

12 DR. SCHILSKY: I meant exactly that. We
13 are going to practices. Once all the necessary
14 legal contracting and business associate agreements
15 and all that are put in place, we are uploading
16 their complete electronic medical record system into
17 a large data link. We're going back as far as when
18 they implemented the MR in their practice, and then
19 we are going prospectively to continue to follow
20 those patients and new patients over time.

21 DR. LEVINE: These are the identified
22 medical records?

1 DR. SCHILSKY: In fact, the records are
2 identifiable as they are brought into our system and
3 then the data is mapped to a common data model,
4 aggregated, and then de-identified, and only the de-
5 identified data can actually be accessed.

6 DR. LEVINE: Are you getting patient by
7 patient approvals to do this?

8 DR. SCHILSKY: We have a patient opt out
9 model. All the patients are informed that their
10 doctor is participating in CancerLinQ, and have the
11 opportunity to ask their record be excluded from the
12 system. It is not an informed consent model. We
13 actually have a determination from an IRB that
14 CancerLinQ is not in and of itself conducting
15 research, it doesn't require informed consent.

16 All the records are collected under the
17 terms of a HIPAA compliant business associate
18 agreement. What we do is we are performing quality
19 analytics on the patient records and returning to
20 the participating practices quality improvement
21 reports, which is acceptable business practice under
22 HIPAA and doesn't require patient informed consent.

1 That said, we did think it was important
2 that patients be aware that their records are
3 included in CancerLinQ, so we have a requirement
4 that the practices disclose to the patients that the
5 practice is participating in CancerLinQ, and unless
6 the patient opts out, their record will be included
7 in the system.

8 DR. NORQUIST: Joe, you get the last word.

9 DR. SCHILSKY: We have published all that
10 in our journal, it is all on our Web site. We try
11 to be very transparent about what our regulatory
12 standards are for the system.

13 DR. SELBY: I think in terms of this
14 concern that Chris first mentioned or Neil first
15 mentioned about where do I go for what or what's
16 really the right application process. I think that
17 is really a point well taken. I think we can look
18 at our Web site.

19 With respect to CancerLinQ, you mentioned
20 the magic words, "common data model," and I think
21 there should be a lot for us to talk about as we
22 start sort of building the cancer part of the common

1 data model.

2 One question. We had a model here I think
3 that physicians organized in societies who were
4 writing guidelines would often sort of come to a
5 fork in the road and for lack of evidence, as you
6 say, would not know which way to advise their
7 colleagues to go. They would then being aware of
8 PCORI's presence get together and actually produce
9 CER applications to PCORI.

10 It's one thing, you can see the questions
11 to PCORI, and we welcome those, but is that a flawed
12 model that the societies themselves would find
13 researchers to put their proposals together, because
14 that would sure be the opposite of getting a letter
15 the day before an application is due saying would
16 you like to sign on.

17 DR. SCHILSKY: I don't actually think it's
18 a flawed model, and in fact, in part based on
19 conversations that we have had over the last year or
20 so. We are in the process right now of working with
21 our guidelines panels to get them to identify
22 questions where they feel in the process of

1 developing a guideline they believe there are
2 significant evidence gaps that they would like to
3 see filled in order to be able to write a more
4 comprehensive guideline.

5 Now that CancerLinQ is beginning to
6 actually accumulate sufficient amounts of data, we
7 are then going to the CancerLinQ informatics team
8 and saying okay, we have some high priority clinical
9 evidence gaps, can we fill these with data that is
10 potentially available in CancerLinQ.

11 Where we feel that we have the data
12 resources to address an evidence gap, that is where
13 we hope you will be seeing some applications from us
14 to actually then conduct the studies to fill those
15 evidence gaps with data that would be accessible to
16 us in CancerLinQ.

17 DR. SELBY: Do you have thoughts about
18 that?

19 DR. COX: I don't think it's a flawed
20 model. I think we just need to do better ourselves
21 kind of organizing around these issues. We have no
22 excuse, I think, probably. We could think of stuff.

1 DR. KIRSCHNER: I can't say how well our
2 guidelines people are aware of or feel engaged with
3 PCORI enough to make use of how this model works. I
4 think that would take some effort on my part, and it
5 may take some exploration on your part, too, in
6 terms of how well we understand the capability to
7 fund.

8 DR. NORQUIST: I will just add, Joe, since
9 the guidelines committee for American Psychiatric is
10 under my council that I chair, so we have actually
11 had exactly the same conversation. We have kind of
12 been looking at AHRQ's evidence-based synthesis to
13 decide on which cherries we could actually pick. I
14 think it actually just dawned on me that here I am
15 the chair and we haven't had these kind of
16 conversations about where we fill the gaps.

17 I think it is back to this interface with
18 the organizations about what might be possible to
19 link with PCORI.

20 Thanks. Michael?

21 DR. LAUER: Guidelines would say something
22 like let's say you want to figure out what dose of

1 aspirin to give a patient who has had a recent
2 myocardial infarction. Of course, we don't know the
3 answer to that.

4 The guideline, as a Class 1 guideline,
5 would be enroll eligible patients into the adaptable
6 trial. That itself would be a guideline. If you
7 don't know what the right answer is, then the
8 standard of care would be consider enrolling a
9 patient into a trial that will answer that question.
10 Something to think about.

11 DR. NORQUIST: Then you have to get the
12 patients to agree to that. Thank you all very much,
13 we really appreciate it.

14 [Applause.]

15 DR. NORQUIST: As they say, it is the
16 beginning of a conversation, so it is not the last.
17 Thank you.

18 We now move on. Jean Slutsky, Joanna
19 Siegel, and Debra Barksdale. Debra, this is your
20 panel on dissemination strategy. This is an area
21 that we have had some discussion about this morning
22 and one we want to spend some time on. I hope the

1 presentations are fairly brief, and then we will
2 have time for discussion.

3 Debra, I'm going to let you start this off,
4 unless one of the others are. I think this is
5 Joanna's first time in front of the group. Jean
6 will introduce you.

7 DR. BARKSDALE: Thanks. We are delighted
8 to be able to present to you the work that is in
9 process related to dissemination and implementation
10 at PCORI.

11 The way this is going to work today is we
12 are going to have some presentation of the
13 background, implementation and dissemination
14 activities and findings that PCORI is currently
15 engaged in, and then some selected high impact
16 studies, and then discuss the sort of groundwork
17 that has been done.

18 There was an initial presentation to EDIC
19 back in -- can you hear me? There was a
20 presentation to the committee back in March, and
21 then we met face to face in April and had a very
22 productive meeting here in D.C.

1 With that background, I'm going to turn it
2 over to Jean.

3 MS. SLUTSKY: Thank you. I'm not going to
4 actually do a presentation, Joanna Siegel is, but I
5 wanted to take the opportunity to introduce her.
6 She was not able to be at the last meeting, but
7 Joanna is on our staff and helping to develop
8 infrastructure for the dissemination and
9 implementation program.

10 I also want to point to the back that
11 Sharon Arnold has come from AHRQ to join us for this
12 session, and we have been working really closely
13 with AHRQ as we develop our program both through the
14 EDIC and at the staff level.

15 I'm going to turn it over to Joanna, and we
16 look forward to a good discussion which Debra will
17 help us moderate.

18 Can I just say one thing? The slides that
19 are in your Board book are a little more
20 comprehensive than what will be presented today.

21 MS. SIEGEL: Thank you. The goals of
22 PCORI's dissemination and implementation program are

1 the translation, dissemination and implementation of
2 PCORI's research findings to facilitate their uptake
3 and to ultimately improve health outcomes.

4 I'd like to start with a few definitions.
5 "Translation" is presenting the research findings in
6 accessible language and format so that the results
7 are comprehensible and meaningful to the intended
8 target audience.

9 "Dissemination" is an active process
10 designed to increase understanding and use of
11 findings, and to motivate their uptake and use among
12 the target audience.

13 "Implementation" is the process of
14 integrating evidence into policy and practice.

15 You have all seen this language many times
16 before, but what I'd like to highlight here is in
17 addition to conducting comparative effectiveness
18 research to assist patients, clinicians, and others
19 with health decisions, PCORI is also charged with
20 dissemination of research findings to facilitate
21 their uptake.

22 AHRQ is also charged with disseminating

1 PCORI's findings, and with disseminating patient-
2 centered outcomes research more broadly. For this
3 reason, a lot of what we will be doing in
4 dissemination and implementation will be in
5 collaboration with AHRQ, as Jean mentioned, and I'll
6 be talking about this a bit more later.

7 This slide provides a map of our program
8 for dissemination and implementation, and shows
9 where the activities that I'll be talking about fit
10 in.

11 While PCORI's research is in progress and
12 as some of our studies are nearing completion, we
13 have been planning and laying some of the
14 foundations for the dissemination program.

15 We have a set of activities that comprise
16 our initial work in dissemination. These are
17 essentially the first stages in the dissemination of
18 PCORI's research findings, and they apply to all or
19 almost all of our findings.

20 I will also be talking about our plans for
21 dissemination of selected findings and the work we
22 are doing now to lay groundwork for these

1 initiatives, most of which will occur when more of
2 our studies have been completed, which will be the
3 focus of much of our collaboration with AHRQ.

4 I'm going to touch just briefly on some of
5 our capacity building activities. This has been
6 underway through our engagement and science program.
7 In engagement, the stakeholder engagement team has
8 been convening roundtables this year with
9 physicians, nursing, and in the future, purchaser
10 and pharmacy benefits management organizations.

11 These organizations are critical
12 intermediaries for dissemination and although
13 dissemination isn't the only topic at these
14 roundtables, we are discussing with these
15 organizations their potential role in disseminating
16 findings to their membership. The two roundtables
17 that have taken place so far
18 have each had more than 50 representatives of these
19 organizations.

20 The engagement awards have a new emphasis
21 on dissemination. The engagement awards for
22 dissemination are intended to support awardees in

1 helping to develop processes, collaborations, and
2 approaches to enhance their ability to disseminate
3 PCORI research findings to their memberships.

4 In addition, we have a program in
5 communication and dissemination research, CDR, as
6 you know, which has an ongoing portfolio of awards
7 that look at the comparative effectiveness of
8 communication and dissemination strategies.

9 I'd like to turn to our initial work in
10 dissemination for our research findings. Again, the
11 things I'm going to be talking about here are on the
12 immediate horizon, and are what we are going to be
13 doing for all or most of our research findings.

14 As you know, PCORI's authorizing
15 legislation specifically charges us with conducting
16 peer review findings, both to ensure their
17 scientific integrity and to assess their adherence
18 to PCORI's methodologic standards.

19 This is really the first step in the
20 dissemination process. It is the point of departure
21 for assuring that the findings we disseminate are
22 valid and trustworthy and therefore useful, and will

1 also, of course, provide context for the consumers
2 of the research findings.

3 We are further charged with making our
4 findings available within 90 days, with making them
5 comprehensible to providers and to patients, and
6 discussing specific considerations in the findings
7 that we release.

8 The process for peer review and public
9 release of findings that the Board adopted in
10 February 2015 outline the peer review process, and
11 it also specifies that PCORI's release of findings
12 will be accomplished by developing and posting two
13 500 word abstracts, one for patients and the general
14 public, and one for medical professionals.

15 This time line summarizes our process of
16 peer review and release of findings. It begins with
17 the primary completion date of the research, which I
18 want to emphasize is not the end date for the
19 contract.

20 It is the last point, the last date when
21 data are collected for the primary outcome of the
22 study. During the following interval, the awardee

1 completes data analysis and prepares their draft
2 final research report, which has to be submitted to
3 PCORI no later than 13 months from the primary
4 completion date.

5 Once the draft final research report is
6 submitted, PCORI has two months to conduct peer
7 review and to get comments back to the awardee. The
8 awardee then has a month and a half to respond to
9 the comments, which PCORI can allow a bit more time
10 if those comments are complex. Once the comments
11 are addressed, the awardee resubmits and then PCORI
12 accepts the draft as the final version of the
13 research report.

14 At that point, the 90 day clock starts
15 ticking, and we have three months to post the lay
16 language abstract and the clinician abstract on
17 PCORI.org.

18 Once we have the peer reviewed findings in
19 hand, our dissemination and implementation program
20 activities will be focusing on translation and
21 communication of the findings. First, we will be
22 working on developing the abstracts for posting,

1 which I'll talk about a little bit more in a second.

2 Journal publications by our investigators
3 are another means by which our research findings
4 will be released. We have some new activities to
5 support public access to these publications which I
6 will also go over just briefly.

7 We have the return of research results to
8 study participants, which is an important part of
9 our initial work in dissemination. The process for
10 peer review and release of findings that the Board
11 adopted a year ago February addresses this - it says
12 "PCORI will supply awardees with a copy of the lay
13 language abstract, and the awardee institution will
14 make every reasonable effort to ensure that
15 participants and partners receive this summary."

16 This is a role for our investigators. We
17 do have this guidance in place, but we plan to do
18 more shortly in the way of publicizing this
19 provision and making sure it is on our awardees'
20 radar.

21 Other early activities for dissemination
22 will include things like investigator presentations

1 at conferences and meetings, conducting continuing
2 education, which we have already started at PCORI,
3 and the development of materials designed to
4 communicate findings to specific target stakeholder
5 audiences.

6 As far as the initial activities in
7 translation, we are currently in the process of
8 establishing our translation center through a PCORI
9 contract.

10 The translation center's responsibilities
11 will include the writing of the lay and clinician
12 abstracts, and will include preparing a summary of
13 the peer review comments for posting with the
14 abstracts, to provide context for the findings in a
15 format that is more accessible to readers.

16 The translation center will also be
17 involved in reviewing the project summaries that are
18 on the PCORI Web site. They will be helping to
19 update these and put them into a more consistent
20 format and also to improve on their readability.

21 The translation center will also be
22 developing Spanish translations for the abstracts

1 and in some cases, translations into other
2 languages.

3 In addition, for many of our findings, they
4 will provide non-written forms for communicating to
5 lay audiences, audio files or sometimes videos, to
6 assist with communication to low literacy and also
7 visually impaired audiences.

8 The translation center will also be
9 involved in some of our initial dissemination
10 activities for selected findings. These will
11 include things like grand rounds, types of
12 presentations, or other types of presentations
13 featuring one or more of our investigators.

14 Finally, because the staff of the
15 translation center will be immersed in reviewing all
16 of our project summaries and also will have an early
17 look at the draft final research reports that
18 awardees submit, they will have a role in helping us
19 to flag promising and potentially high impact
20 findings.

21 We put out the RFP for the translation
22 center in March, and we are actually receiving

1 proposals today. We expect to have a translation
2 center up and running by the first part of July.

3 I mentioned earlier that we had some new
4 measures to improve public access to PCORI research
5 findings that are published in peer reviewed
6 journals. We have presented this to the Board in
7 April on the Board call, so I will just go over it
8 briefly.

9 We will be requiring that PCORI awardees
10 assure that their manuscripts are deposited in
11 PubMed Central at the time their final version is
12 accepted by a peer review journal. PubMed Central
13 will make these manuscripts freely available
14 anywhere from 6 to 12 months after the article is
15 published depending on PubMed Central's arrangement
16 with the journal.

17 Also, in order to facilitate more immediate
18 access to findings that are published in these
19 journals, PCORI will be covering the fees that many
20 journals charge to provide free public access. This
21 will include publication fees that are charged by
22 many of the open access journals, and also fees that

1 other journals charge for access to a particular
2 article.

3 PCORI will be paying up to \$3,500 per
4 project for articles presenting primary research
5 findings and will also consider coverage in addition
6 to that for large projects that report multiple
7 findings.

8 This process is designed so that awardees
9 retain discretion in choosing the most appropriate
10 journal for presenting their findings. This policy
11 is now up on our Web site, and we are working
12 towards implementing it.

13 Another early activity that we have in
14 place for dissemination is our limited competition
15 dissemination and implementation awards. These
16 awards are intended to provide an avenue for our
17 investigators to pursue strategies for disseminating
18 their work, and many are very interested in this.
19 These are two year awards for a maximum of \$300,000
20 each.

21 As noted, the eligibility for these awards
22 is limited to our current awardees. Importantly,

1 the other major requirement for investigators to
2 apply is they must have submitted their draft final
3 research report to PCORI. This is an important
4 incentive for awardees to get their research reports
5 to us early.

6 We received 19 letters of intent for the
7 first cycle of the limited competition D&I awards,
8 and proposals for the cycle are due in June. We
9 anticipate start dates for funded projects beginning
10 in January 2017. This award is going to be
11 available during three funding cycles per year, so
12 we have actually already received some letters of
13 intent for the second round.

14 At this point, I'd like to turn to our
15 plans for dissemination and implementation
16 activities for selected studies, those that we feel
17 have particular potential for having a high impact
18 on health care and health outcomes.

19 DR. BARKSDALE: I see a couple of tents.
20 Harlan, do you have a specific question or comment
21 about the first section?

22 DR. KRUMHOLZ: I am happy to wait or I can

1 weigh in now. I see a problem brewing in the way in
2 which we are approaching this, that I at least want
3 to surface, which is also alluded to by your last
4 sentence.

5 Are we funding highly consequential work
6 that has the potential to influence practice that
7 needs to urgently be disseminated so people can act
8 on it, or are we funding work that people can
9 deliberate on for 13 months, they can take their
10 time. It comes to us, we circulate it around, and
11 it gets out around 15 months after the last data
12 element was collected.

13 The typical thing in academics and the
14 problem is if we report, and Mike Lauer and I both
15 know this well, if we do report the results, of
16 which we note that within two years two-thirds of
17 academic doing experiments on people don't report,
18 and if we publish, what we do is we take our time
19 years past or 13 months past, we are not poised when
20 the final data point is in to move acceptance in a
21 few cases where we see sometimes with trials and
22 quickly published, we often take our time, and then

1 when we publish, we rush.

2 Now we have to disseminate. Why isn't
3 anyone doing anything? They have to act on our
4 studies, you have to listen, and yet there was a big
5 piece in the middle where we just were leisurely
6 moving along if we did even complete the task.

7 The question for PCORI is are we going to
8 do things differently. The Board adopted this, so
9 in all fairness, the Board adopted this, but I'm
10 just raising it as you are saying, this dichotomy on
11 the one hand saying our work that we funded is going
12 to move, and then your last sentence was now for the
13 studies that we think really should move forward,
14 and then that raises this question about the others.

15 It also raises the question why aren't we
16 teaching people, including me and any other
17 researcher, to jump on that last day, already
18 written the analytic programs, have been ready to
19 just turn the switch, have the paper already
20 written, at least had the results dropped in,
21 rewrite the discussion, and within 60 days, have
22 something ready to post on a preprint, and be ready

1 to submit to a journal.

2 That would be research done differently. I
3 just think if this body wants to take some risks and
4 move things in a different way, we have to start
5 looking at this.

6 If we are really talking about
7 dissemination, then we are talking about shortening
8 the study period because we are trying to engage
9 people so retention can go on in a much more
10 efficient way, and then we are saying to
11 investigators, you be ready on the last day to
12 sprint, because we want to know the results ASAP,
13 have the programs written, the papers outlined,
14 everyone is lined up and ready to go for a 60 day
15 sprint.

16 This is agile development. Anyone that
17 knows about agile software development knows this is
18 sort of like scrumming every day and do a sprint,
19 and get this thing out, because we funded you and
20 the expectation is this is important work.

21 If we are going to say we are actually
22 funding work, we don't care, take a year and a half

1 after you are done with the study, and we look
2 forward to it in that year and a half, and then we
3 will go to folks and try to disseminate it, I think
4 that sends a different message.

5 I know you are thinking why did I call on
6 him.

7 [Laughter.]

8 DR. NORQUIST: That actually is a very
9 important point.

10 DR. BARKSDALE: Actually, when we were
11 going through writing this, we knew this would come
12 up at some point. We felt we didn't want to reopen
13 the peer review policy. I am going to suggest --
14 you raised some very important questions that quite
15 honestly we have discussed internally a lot, and
16 tried to put in place, like the limited competition
17 D&I that we basically say, you don't submit your
18 draft final report, you don't get any more money.

19 I am going to suggest let Joanna finish the
20 slides, and then we can have at it with full
21 discussion with everything on the table. We are
22 running a little short on time.

1 DR. NORQUIST: Joanna, if you could go on a
2 little quicker through the slides so we have time.
3 We were reading them in advance. You don't have to
4 read the slides, if you can kind of quickly finish.

5 MS. SIEGEL: Thank you. This piece that
6 I'm coming to is about some poisoning, so we will take
7 your larger points. I would like to talk about some
8 of these selected findings and our activities that
9 are focused on those.

10 To provide some context in terms of does
11 this apply to all of our research, we have some
12 findings that are already coming in, and we are in
13 the process of initiating peer review of those
14 findings. However, we anticipate many more results
15 coming in at the end of this year, in 2017, and
16 beyond.

17 In the near future, we are going to be
18 looking at a much larger pool of results, and it is
19 going to be important for us to identify and work
20 systematically on dissemination and implementation,
21 particularly for the highest impact findings. Of
22 course, we won't know exactly what those are until

1 we have our results. We are ready to prepare for
2 it.

3 This is a diagram that is intended to
4 describe our strategy for selecting our priority
5 findings and moving them towards dissemination and
6 implementation. It includes identifying the
7 findings, placing them within an evidence context,
8 and setting the strategy for dissemination and
9 implementation.

10 I am going to talk a little bit about each
11 of these, but I do want to point out that although
12 this is a linear sort of model, we are working on
13 all of these pieces at once.

14 The first piece is really an opportunity
15 for PCORI now to begin engaging in active
16 surveillance to identify potentially high impact
17 findings. We have large investments in certain
18 areas of research like the targeted initiative
19 topics and pragmatic clinical studies, and those are
20 things we will automatically consider as potential
21 priority topics for dissemination.

22 For the broad awards, we are developing a

1 process for flagging studies to help us identify
2 early on the findings that we think have a strong
3 potential for impact. The translation center, as I
4 mentioned, will be reviewing the project summaries
5 and the study findings, and we will be asking them
6 to identify priority candidates.

7 The forms that the peer reviewers will be
8 filling out and submitting has items that ask
9 reviewers to comment on both the priority and the
10 urgency of disseminating the findings that they are
11 reviewing, and finally, we are working on a
12 systematic process for capturing input from our
13 program officers and program directors who have a
14 comprehensive knowledge of these projects.

15 Another one I should also mention is that
16 in some cases our engagement awards have involved
17 activities that are going to be identifying projects
18 that are of special relevance to certain stakeholder
19 groups, and that is, of course, also something we
20 would be following up on.

21 The next part of our strategy is to place
22 the findings in the context of the body of the

1 evidence. That is to provide context and to
2 understand the study's importance and how it fits
3 with existing knowledge.

4 This piece requires coordination between
5 PCORI's work in topic generation and our
6 dissemination and implementation program because an
7 understanding of the evidence context is important
8 at both ends of the research spectrum.

9 In developing topics, review of the
10 evidence helps us focus the research on the gaps
11 where the new findings will have an important impact
12 and as you know, PCORI's methodology standards
13 prescribe gap analysis and systematic review should
14 be used to support the need for a proposed study.

15 From the point of view of dissemination, a
16 single finding is not often sufficient to motivate
17 an important change in process. We will be
18 disseminating findings as part of a body of research
19 that comprises an evidence base. For some topics,
20 we already have evidence summaries available. For
21 others, we are going to be building a more thorough
22 evidence context going forward. We just initiated

1 work to develop evidence maps like □the one shown
2 here for acupuncture on selected topics.

3 The last piece of the strategy is to choose
4 an approach or more than one approach for
5 dissemination and implementation of a selected
6 finding or group of findings. This stage involves
7 an active collaboration with AHRQ.

8 AHRQ has developed a framework for their
9 dissemination and implementation initiative that
10 includes a nomination process and involves separate
11 assessments of strength of evidence and the
12 feasibility of implementing specific research
13 findings.

14 We and others have been working with AHRQ
15 on piloting their nomination process and will be
16 submitting nominations to them based on the criteria
17 they are developing.

18 For PCORI findings that AHRQ selects as the
19 focus of dissemination and implementation projects,
20 the agency will be drawing on key informants who
21 have a close familiarity with that particular area
22 of research and practice, who will recommend what

1 they think are the best methods for disseminating
2 and implementing research results.

3 We will be collaborating with AHRQ in this
4 process, and as AHRQ is developing initiatives, we
5 envision a lot of activities emerging that involve
6 both collaboration on specific projects or for
7 identifying areas where AHRQ and PCORI can pursue
8 complimentary initiatives.

9 The future dissemination and implementation
10 efforts we are envisioning are efforts that involve
11 collaboration with or compliments initiatives that
12 AHRQ is identifying through its process for findings
13 from PCORI funded research.

14 We are also envisioning efforts that are
15 tailored to specific findings, that is they are not
16 generic strategies but are appropriate for
17 disseminating specific findings to specific
18 audiences, and we expect our initiatives will
19 provide opportunities for awardees to have strength
20 and experience in dissemination and implementation,
21 and finally, we envision multi-pronged dissemination
22 and implementation of important findings.

1 That is all I have to say except I did want
2 to give a nod at least to our plans for evaluating
3 dissemination and implementation activities. We do
4 plan to use a number of short-term process type
5 measures, including things like Web abstracts and
6 continuing education certificates, things like that,
7 but we also are exploring longer term impact
8 measures that have effects on changes in practice
9 and other types of outcome measures.

10 Thank you.

11 DR. NORQUIST: Let's go back to the
12 discussion.

13 [Applause.]

14 DR. BARKSDALE: Before we continue, I just
15 wanted to make sure that I introduce or reintroduce
16 the members of EDIC who are all well versed in the
17 content of this presentation, and that is Bob Jesse,
18 who is co-chair. Gail Hunt. Sharon Levine. Larry
19 Becker. Allen Douma. Sharon Arnold. I am missing
20 Brian from the Methodology Committee, and I'm
21 missing one person from the Methodology Committee,
22 Mary Tinetti.

1 Now, back to Harlan's comment.

2 DR. NORQUIST: Bob Jesse?

3 DR. JESSE: I'll just add on to Harlan's
4 point, and that is the level of urgency is probably
5 not limited to this. As PCORI, we have some pretty
6 tight time lines coming up, and everything we should
7 do I think really needs to be pushed at that level.

8 In particular, working with our grantees,
9 they just need to understand that across the board.
10 We need to reflect that in our behavior, too,
11 including having pretty tight time lines, I think,
12 between RFPs and getting money out the door.

13 I think it is not limited just to this, but
14 everything, setting a corporate tone for that level
15 of urgency if we are really going to change the
16 world.

17 DR. NORQUIST: Gail? Then Harlan, Leah,
18 and Sharon.

19 MS. HUNT: Following on what I said this
20 morning, I don't see a lot of attention being paid
21 to implementation. I just heard implementation just
22 mentioned in passing in a couple of these

1 PowerPoints and the presentation.

2 I don't think we have taken seriously the
3 fact that we are expected to have results that will
4 inform decision making at the patient and family and
5 primary doc level.

6 Just coming out with dissemination is not
7 really sufficient. I think we should be giving
8 funding out for tools, development of tools that
9 actually help patients and doc's to implement
10 whatever the results are.

11 I'm very concerned this is an area that we
12 have neglected, and we don't seem to be, even though
13 we are rolling into like our last two years -- we
14 don't seem to be focusing on that, and I think that
15 is going to be a mistake when Congress says what has
16 actually been accomplished at the patient level. I
17 think we need to put more funding into it, and I
18 think we need to have a plan for how we are going to
19 do that and not just dissemination.

20 DR. NORQUIST: Jean, do you want to respond
21 on that? Harlan, Leah, and Sharon.

22 MS. SLUTSKY: One of the things that we do

1 envision for those types of research findings that
2 really are strong and fit within our body of
3 research is to develop those types of tools and keep
4 them updated to assist decision makers. Shared
5 decision making tools, decision aids, other
6 mechanisms to provide that information at the point
7 of care.

8 One of the things that we have emphasized a
9 lot is it is rare for one study to actually change
10 practice. It is not unheard of, but it is generally
11 research findings within the context of larger
12 findings.

13 So, one of the goals is to create the
14 infrastructure to make sure we can do that and
15 support the shared decision making and decision aids
16 and other activities that help people at the point
17 of care.

18 I think we are saying the same thing. We
19 are just going about it differently in that many of
20 our smaller studies may need the boost of other
21 studies to help them carry the water across the
22 line.

1 MS. HUNT: I didn't see anything in the
2 PowerPoints about tools and decision making
3 instruments and that sort of thing, which I think if
4 that is what you are actually planning to do, I
5 think that is great, and I think we need to make it
6 explicit. Thanks.

7 DR. NORQUIST: Harlan?

8 DR. KRUMHOLZ: I am yielding my place.

9 MS. HOLE-MARSHALL: I think this was great
10 and I appreciated the materials. I think just
11 building off what Gail said, I do think this is a
12 very, very important area, and maybe what is not
13 quite clear to me yet, and I'll put Sharon on the
14 spot, and I apologize in advance although I don't
15 expect you to respond, is I do think it is critical
16 that we understand what the role of AHRQ is going to
17 be so we can understand what other funding is
18 necessary, and if it means amp'ing it up, I could be
19 in support of that, but without knowing what the
20 full set of activities are that are being planned, I
21 have a hard time understanding where there might
22 still be gaps.

1 I know this is a broken record at this
2 point, but I really feel like when we have
3 dissemination and implementation around PCORI, given
4 there is legislative directed funds, AHRQ should be
5 presenting on what it is doing with those funds. We
6 have not had that to date.

7 DR. NORQUIST: Yes, I was going to put
8 Sharon on the spot at the end. I was going to let
9 you catch up. Do you want to respond now or do you
10 want to wait and hear some other input?

11 DR. ARNOLD: I'm happy to respond now. We
12 are doing a number of activities with our Trust Fund
13 dollars. We have a large initiative that has just
14 begun, developing clinical decision support tools
15 and activities. We have other kind of tool
16 development activities that we have consistently
17 done to advance the dissemination and implementation
18 of evidence.

19 We are now kind of gearing up for this
20 nomination process, rather than us making the
21 decisions, kind of scouring the literature about
22 what the most important evidence is, we are looking

1 to important stakeholders from the field to nominate
2 for us important evidence.

3 I might add that our scope is broader than
4 just PCORI funded studies, so we are thinking about
5 this as a range of evidence.

6 What we plan to do is assess the scientific
7 rigor and strength of the evidence as well as kind
8 of the environment for implementation, and by
9 "environment," we mean are there tools, are there
10 supports, is there a natural leader that can help
11 implement this and direct our resources to where it
12 will be most beneficial.

13 Unfortunately, given the nature of evidence
14 and the environment, it's really hard to come up
15 with an one-size-fits-all plan for dissemination, so
16 we will really be targeting our approach to specific
17 evidence and the environment.

18 I will say that we have a very large study
19 that is ongoing now called Evidence Now, which is
20 implementing health practices in small and medium
21 sized physician practices. That is a good example
22 of how we are targeting the support to the

1 environment and the evidence.

2 DR. NORQUIST: I guess the other question
3 is the interface with PCORI. We're putting you on
4 the spot here. The interface with PCORI, do you
5 feel like there's an ongoing relationship so that
6 it's very clear where the dividing line is or where
7 we share or compliment, or whatever the term is at
8 this point?

9 DR. ARNOLD: We have been working very,
10 very closely with Jean and Joanna and their staff.
11 I think that there will be a number of points of
12 contact between us and them. One is the nomination
13 process.

14 Obviously, PCORI is going to make a
15 determination about what gets nominated to us, and
16 then as we move along the process, we will
17 collaborating very closely and consulting with PCORI
18 staff about the different steps to take.

19 Certainly, when we make decisions about
20 activities that we are planning or we think would be
21 beneficial in support of implementation, we will be
22 consulting with PCORI staff and making

1 determinations about what we fund, what PCORI funds,
2 what we jointly fund.

3 We anticipate a very, very close working
4 relationship. There is too much important work to
5 be done for us to be both focused on the same
6 activity simultaneously.

7 DR. NORQUIST: Thank you.

8 MS. HOLE-MARSHALL: Thank you. My question
9 wasn't really that there isn't a lot of
10 collaboration. We do hear about that, and not that
11 good work isn't being done at ARHQ, it is just it's
12 not surfacing through us.

13 We don't have an ability to help tell that
14 story about here's things that are being funded
15 through the PCORI Trust Fund that we can not
16 overshadow ARHQ in terms of ARHQ's process, but say
17 these are because of overall the PCORI Trust Fund,
18 we don't have any visibility and aren't able to
19 share in that, wow, here's a body of work that's
20 being done based on this collaboration, however we
21 choose to share that. That was my main point.

22 DR. ARNOLD: No, I appreciate that. I'll

1 certainly consult with Joe and Jean about how to
2 provide that information.

3 DR. NORQUIST: Thank you, Sharon. Harlan
4 K., Sharon, Freda, and Steve. Harlan?

5 DR. KRUMHOLZ: Thanks for the opportunity
6 to elaborate just a little bit more. I guess a way
7 for me to express this is like what would be an
8 ideal state for me for this organization. The
9 ideal state would be somebody gets a personal letter
10 from Joe, appointing a grant, and saying we funded
11 you because we believe what you're doing is
12 important. We are very thoughtful about what we
13 fund, and we think it's potentially of consequence.
14 We wish you best of luck. We hope that you will
15 finish this in a timely way. We're going to be
16 tracking your enrollment, and it will be on our
17 Dashboard.

18 We're going to be following, and if there
19 are things we can do to help you, we'd like to know,
20 because we want to be able to connect you with
21 others or be able to ensure you're getting your
22 study done in a timely way.

1 We also have hopes about what's going to
2 happen from the moment it's finished. We hope that
3 you will be positioned to sprint, to get this thing
4 into the public domain as quickly as possible, that
5 from the moment it's finished, you have already got
6 your analytic programs written. You already have
7 your paper outlined. You already have your team
8 poised, and you are ready to sprint for the next 60
9 days to get this out as soon as possible.

10 You should know that we are also going to
11 be tracking that. That is going to be one of our
12 accountability issues. We have enabled the Board
13 policy that has allowed as much as 13 --

14 [Webcast audio feed lost.]

15 [Recess.]

16 [Webcast audio returns mid-discussion.]

17 DR. WHITLOCK: -- treatment-resistant
18 depression, new oral anticoagulants, treatment
19 strategies for managing and reducing long-term
20 opioid treatment for chronic pain and treatment of
21 multiple sclerosis went through merit review late
22 last week.

1 We are hoping to bring the slates back to
2 you, and with approval, they will be awarded in
3 summer of 2016.

4 An additional funding announcement, chronic
5 low back pain, we are a little bit earlier in the
6 process, but should hope to award that in winter of
7 2017, which means early 2017.

8 The three topics for today are management
9 of sickle cell disease, what I would consider a
10 follow on to the original opioid announcement, which
11 was looking at reducing use, and those are chronic
12 users, and this is to look at presenting unsafe
13 opioid prescribing in primary care, and going a bit
14 upstream.

15 The third is to look at community-based
16 palliative care delivery for adult patients with
17 advanced illnesses for both patients and caregivers.

18 Today is May 23, depending on your votes,
19 we will take forward those that are approved to
20 targeted PSA announcements on August 15, 2016. You
21 will see the rest of the time line.

22 If folks are able to join us on the phone,

1 I just want to mention that I will be going through
2 the slides relatively quickly because the Board has
3 had access to these, but they will be on the Web
4 site, so that as people learn of these upcoming
5 funding opportunities, they can look at the slides,
6 get an idea, more in-depth idea of what we will be
7 looking for, and even begin preparing your
8 applications soon.

9 DR. NORQUIST: I just want to clarify, the
10 application deadline, the applications are in by
11 December 19, but the merit review is not until
12 March, the last of March? It takes three months?

13 DR. WHITLOCK: That is the time line.

14 DR. NORQUIST: I understand. It just seems
15 like a long time between the applications in and the
16 ability to have the merit review.

17 DR. WHITLOCK: We can talk about the time
18 line off line, but these are standard time lines.
19 That is the actual in person meeting, and there are
20 many steps that take place prior to that. I am
21 happy to show you the full detailed time line.

22 Let's go to management of sickle cell

1 disease. The goal of this funding announcement is
2 to generate evidence that will support care
3 transitions for young adults who are going from
4 pediatric to adult health care in what is considered
5 an emerging adult, which is somewhere around 15 to
6 25 years of age, in those with sickle cell disease.

7 As many of you know, sickle cell disease is
8 a chronic, somewhat rare but serious genetic
9 disorder, between 70,000 and 100,000 Americans,
10 predominately African Americans, have sickle cell
11 disease. The onset is during infancy, and there is
12 a reduced life span in folks with this disease, and
13 only relatively recently have folks been living long
14 beyond childhood.

15 It turns out that those that are developing
16 and aging into the young adult population are quite
17 vulnerable to having worse health outcomes during
18 this period of time, during this transition. This
19 is the target population that we are focusing on in
20 this targeted funding announcement.

21 Care transition is always an issue, but it
22 is particularly an issue for youngsters who have

1 congenital heart disease or serious disease as
2 children and then transition into adulthood.

3 It is somewhat different than thinking
4 about going from hospital to home. It is really as
5 children grow into adulthood, they experience the
6 cumulative impact of the disease, and they have
7 relatively high rates of comorbid conditions.

8 They also are experiencing a change from
9 their usual source of care to a different source of
10 care. In that transition, there can be difficulty
11 getting access to specialists, such as
12 hematologists, particularly if their source of
13 insurance changes, and both adult care clinicians
14 and these patients are not satisfied with the kind
15 of care they are able to both give and receive.

16 By loss of usual source of care, often
17 special care that is focused in pediatrics, it is
18 documented that they have less preventive and
19 screening visits and that the source of their care
20 begins to shift, and they are more likely to
21 actually go to the emergency department than other
22 age groups.

1 The timing for this funding announcement is
2 opportune in a number of ways. One is that we have
3 the opportunity to build on work that is happening
4 from other funders, including the National Heart,
5 Lung, and Blood Institute. They will soon announce
6 the results of a competitive funding announcement
7 that will be funding research consortia around the
8 country that could actually participate in this
9 research.

10 Similarly, to our own PCORNet, we have some
11 of our clinical disease research networks that are
12 developing sickle cell disease cohorts.

13 Although this would be a good opportunity
14 for applicants to work through existing research
15 networks, and we would encourage it, it certainly
16 will not be required. All will be able to apply.

17 I'm going to quickly cover evidence gaps.
18 This is an expert panel report from 2014 from NHLBI.
19 It shows that there are guidelines but they are
20 based on weak evidence or consensus opinion, and
21 particularly in the population that we have talked
22 about, the emerging adults, they are the highest

1 rates of complications and of mortality compared to
2 other age groups, but a real lack of evidence about
3 how to improve care during this time period and
4 health outcomes.

5 There is just very little evidence right
6 now that is looking to try to fill these gaps for
7 this vulnerable population.

8 We got together a workshop, and you will
9 see we got together a multi-stakeholder workshop on
10 March 7 of this year. For this particular section,
11 38 stakeholders of the variety seen here
12 participated, and they submitted 59 questions prior.

13 These were consolidated into two major
14 areas, the area of care transitions that we were
15 talking about, and an area of pain management. Each
16 group broke out and developed questions around each
17 of these two major themes.

18 For the purpose of this funding
19 announcement, we are focusing just on one question
20 because that seemed to raise to the top, which is
21 really about the issue of transition coordination
22 models, different types of models for these emerging

1 adults as they transition from pediatric to adult
2 care.

3 As I said, the population is what is
4 considered emerging adults, generally defined as 16
5 to 25 years of age, although the transition can
6 happen in a very focused time, 16 to 18 or may even
7 be prolonged, depending on insurance coverage, up to
8 age 26.

9 There may be interest in expanding the age
10 group of those considering under transition if
11 applicants are looking at issues related to
12 insurance transitions as well as age related and
13 practice related changes that are happening.

14 The interventions and comparators that are
15 of interest are those that are incorporating all of
16 the relevant partners, the patients, the caregivers,
17 and the clinicians. There needs to be a robust
18 patient engagement.

19 During the stakeholder engagement meeting,
20 as the researchers and other community members
21 talked about this, they realized because it is a
22 rare disease and there isn't as much research, it is

1 going to be important that either something has been
2 shown to be efficacious in sickle cell disease, it
3 has evidence of efficacy in other diseases, such as
4 diabetes, cystic fibrosis, congenital heart disease,
5 where children also have to undergo a transition to
6 adulthood, or it is something that is in common use.

7 There are examples here with
8 acknowledgement that an usual care may be an
9 appropriate comparator.

10 The outcomes are focused on health related
11 quality of life, other patient important outcomes
12 including social functioning and experiences of
13 care, with secondary outcomes looking at
14 hospitalizations and hospitalizations due
15 particularly to pain crises.

16 The study design we anticipate is a cluster
17 randomized control trial with sufficient sample size
18 and clusters to power study. The focus would be on
19 outpatient settings, a maximum of a five year study.
20 The team felt a proposed research commitment of up
21 to three studies and \$25 million of total costs
22 across all studies would be appropriate.

1 I will stop there and turn it over to Bob
2 to lead a discussion.

3 DR. NORQUIST: Bob, do you want to give any
4 feedback? This went through the SOC.

5 DR. ZWOLAK: This went through the SOC. I
6 was the SOC champion for this. I felt it was an
7 appropriately chosen and well discussed research
8 topic. I would endorse this, and Evelyn and I will
9 be happy to try to answer any questions.

10 DR. NORQUIST: Let's open this up for
11 questions or comments at this point. Does anybody
12 have any questions or comments? Allen, wait, Harlan
13 Krumholz is up first, I'll come back to you.

14 DR. KRUMHOLZ: I just want to say I think
15 it is particularly timely to come out with this.
16 There has been a lot of discussion in the recent
17 weeks about whether this has been a neglected area,
18 actually putting it beside the moon shot, so I think
19 it is actually really great that we happen to have
20 been moving in parallel, and I think this will get
21 some good attention with regard to the importance of
22 the topic. I just wanted to commend the staff.

1 DR. WHITLOCK: Thank you.

2 DR. NORQUIST: I would agree. I see a fair
3 number of these younger people because they
4 obviously have a lot of mental health issues, and in
5 public sector facilities and stuff, this is a huge
6 population, and an issue, and has been for quite
7 some time. I think some people would agree it has
8 been a neglected population that for some reason has
9 not come up on the forefront, so I would agree with
10 that.

11 Allen and then Sharon Levine.

12 DR. DOUMA: With Bob's hearty endorsement,
13 I would certainly endorse it as well. He knows a
14 lot more than I do. I do have more of a generic
15 question. How long a time frame from the last
16 landscape review for doing evidence mapping, and our
17 research, do we think it is too long, that we need
18 to relook? Do you have a criteria for that?

19 DR. WHITLOCK: Let me see if I understood
20 the question. Did you say --

21 DR. NORQUIST: Let me just be clear, Allen.
22 It sounds like you are talking about the broader

1 process, not particularly the issue about sickle
2 cell disease, right?

3 DR. DOUMA: Correct. You mentioned in 2015
4 somebody had done a review and found there is
5 evidence gaps. I questioned how long a time frame
6 between the last review and our decision making is
7 reasonable.

8 DR. WHITLOCK: Well, depending on how
9 complicated a field is, two years might be a time in
10 which you might need to update. The sad fact is
11 many of the researchers that work in this field were
12 in the room for our stakeholder engagement panel,
13 and there is a dearth of research.

14 We looked at Clinicaltrials.gov as well.
15 There was nothing covering this area. I think in a
16 more active field, you might be concerned about
17 state of the evidence with a two year gap, but in
18 this particular area, particularly given the fact
19 there was so little there and we had researchers in
20 the room, I think we are on very solid ground in
21 terms of evidence gaps.

22 DR. NORQUIST: I think the answer is you

1 surveyed what evidence is there, it is just not a
2 lot has been funded.

3 DR. WHITLOCK: Yes, not a lot.

4 DR. NORQUIST: It's not like we are off
5 that much. Sharon?

6 DR. LEVINE: Evelyn, you referred to this,
7 but there are many conditions now that used to
8 terminate in childhood, where there is this awkward
9 phase of hand off between the pediatricians who have
10 taken care of these kids for 15 to 18 years and
11 internists or family physicians who have never seen
12 them.

13 The findings from this may be well
14 applicable to pediatric congenital heart disease,
15 cystic fibrosis, and other conditions where life
16 spans are elongated, survivors of childhood cancer.

17 DR. WHITLOCK: Right. I think that was one
18 of the encouraging things to the stakeholder panel,
19 they said if we have to build on efficacious
20 research, well, we don't have very much. The idea
21 that you can think about the general condition of
22 these congenital long-standing serious diseases in

1 childhood making a transition could help, as you
2 say, across the board.

3 DR. NORQUIST: I agree with Sharon that it
4 also has implications for management of chronic
5 disorders, because we get into issues about pain and
6 other kinds of issues like that that are critical.
7 Mental health issues.

8 Any other comments or questions?

9 [No response.]

10 DR. NORQUIST: I need a motion to approve
11 this development of the RFA.

12 M O T I O N

13 DR. McNEIL: So move.

14 DR. NORQUIST: Second by Kerry Barnett.

15 All those in favor, please raise your hands.

16 [Show of hands.]

17 DR. NORQUIST: Anybody voting against?

18 [No response.]

19 DR. NORQUIST: Anybody abstaining in the
20 room?

21 [No response.]

22 DR. NORQUIST: Allen, how are you voting?

1 DR. DOUMA: I agree.

2 DR. NORQUIST: Harlan Weisman, he dropped
3 off the call. I don't think he's back on.

4 DR. WEISMAN: No, I'm on. I vote to
5 approve.

6 DR. COLLINS: Francis Collins has joined
7 again, and I am voting to approve as well.

8 DR. NORQUIST: Thank you, Francis. That is
9 it. Evelyn, next topic.

10 DR. WHITLOCK: Thank you. The next topic,
11 as I mentioned, is what I am going to be calling a
12 sequential PPFA or targeted funding announcement
13 because the genesis of it really came from
14 recognizing that we could use more work in an area
15 that we had already put a funding announcement out
16 for.

17 The purpose of this proposed targeted
18 funding announcement is to generate evidence that
19 will prevent unsafe opioid prescribing while
20 ensuring that adequate pain management is present
21 for patients using one of two related intervention
22 strategies.

1 The first would be looking at payer or
2 health system strategies that make sure they are
3 linking these two important activities together.
4 The second would be looking at patient and provider
5 communication interventions that would help look at
6 benefits and harms of various treatments.

7 The background, as I mentioned, is the
8 related funding announcement from October of 2015,
9 looking at managing reducing long-term opioid use in
10 chronic non-cancer pain patients. We are hoping to
11 make up to four awards of \$40 million in July of
12 2016. This, as you will see, funding announcement
13 is complimentary to that initial one.

14 There are many evidence gaps in this area.
15 There is wide variation amongst states in opioid
16 prescribing rates, and there is lack of consensus as
17 the CDC has pointed out. There is little evidence
18 on how to prevent unsafe prescribing of opioids, and
19 as much of the research to date is really focused on
20 those patients that have already moved on to chronic
21 opioid therapy.

22 We went through and even in recent

1 systematic reviews and other research, we could not
2 find much evidence to look at, clinical outcomes.
3 There are strategies that people are developing
4 because as everyone knows, there has been a crisis
5 in opioid overdoses and deaths and increasing levels
6 of prescriptions, but few if any have been
7 rigorously evaluated.

8 It is very important, people are given
9 opioids and use opioids usually because they are
10 trying to manage pain, and it is important that we
11 find a way to link effective pain management and
12 safe use of opioids together.

13 The question here is to look at two
14 different modalities, both of them comparing
15 effectiveness of different strategies either at the
16 payer or health system level, or at the patient and
17 provider communication level, to prevent unsafe
18 prescribing while ensuring access to non-opioid
19 methods for pain management.

20 The overall goal is to reduce pain, improve
21 patient function and quality of life, and reduce
22 patient harm.

1 For the first research question focused on
2 payer and health system strategies, the population -
3 - this will be the same for the other -- they are
4 both focused on new users of opioids or patients who
5 have used opioids for less than three months, and
6 they can have either acute or chronic pain.

7 The context of use is outside end of life
8 care nor those that are being treated for cancer,
9 the type of patients we are looking for.

10 We are looking at interventions that are
11 multi-focused, that look at preventing unsafe
12 prescribing while also ensuring adequate or improved
13 pain management. Interventions must be either
14 evidence-based or in widespread use.

15 The primary outcomes are patient-centered,
16 pain, quality of life, function, and also reduction
17 in unsafe prescribing. Secondary are a range of
18 patient-centered outcomes as well as impacts on
19 providers, and emergency department utilization.

20 We are anticipating a cluster designed
21 randomized control trial since these are system or
22 payer level interventions. We are encouraging two

1 active comparators plus usual care. It would be
2 possible also to do a large prospective
3 observational study and it might be possible that
4 mixed methods would be helpful since these are aimed
5 towards complex settings potentially in their
6 implementation.

7 The focus is on primary care since that is
8 where many of these prescriptions are generated, but
9 that is broadly defined. It includes emergency
10 departments, primary care practices, dentist office,
11 and urgent care centers.

12 We are anticipating a time frame of about
13 three years with the sample sizes of 600 plus, and
14 the commitment that we thought was appropriate given
15 the range of different strategies that might be
16 looked at as well as the different types of settings
17 could be as many as three studies spending a total
18 of \$15 million.

19 The second research question focuses on
20 also comparing different strategies that would
21 improve communication around pain management and
22 appropriate use of opioids, the same patient

1 population, new or relatively short-term users, for
2 either acute or chronic pain.

3 The interventions must also address the two
4 components, issues around preventing unsafe
5 prescribing and also ensuring pain management is
6 adequate or even improved. The interventions should
7 be evidence-based or in widespread use, and may
8 include combinations of various strategies.

9 Depending on what is chosen, two active
10 comparators may make sense, but it may depend on
11 what the applicants suggest.

12 You will see the primary outcomes and
13 secondary outcomes, and you will see they are both
14 patient level and provider level outcomes, and are
15 the same as they were for the first research
16 question. There is quite a bit of overlap in the
17 outcomes that are being looked at through these two
18 different strategies.

19 The study design would be a single
20 individual randomized control trial or cluster
21 randomized control trial, again focusing on primary
22 care. Time frame of about three years, 1,700 or

1 greater, with multiple follow up data points, and we
2 believe that for the same amount of money, \$15
3 million in total costs, we probably could fund three
4 to five studies, since these may be somewhat
5 smaller.

6 I will stop there and see if Bob would like
7 to make comments and lead a discussion.

8 DR. NORQUIST: Bob, do you want to make
9 some comments first for the SOC?

10 DR. ZWOLAK: Very few. I just think this
11 is one of the most timely and important issues we
12 can address. It is a different population from
13 those people who are already on significant doses of
14 opioids, best to try to prevent the problem than
15 deal with it once we have developed it.

16 I think these may be challenging studies to
17 recruit for in the primary care setting, but very
18 important.

19 DR. NORQUIST: Harlan, and then Barbara.

20 DR. KRUMHOLZ: I just have a technical
21 question. Since these are continuous outcomes,
22 patient reported outcomes, why does it end up

1 requiring so many patients? I just sort of imagine
2 that you would have been able to do a variety of
3 different trials with fewer patients given the
4 continuous nature of the outcomes.

5 DR. WHITLOCK: I don't know that I have all
6 the details on the sample size. I was just looking
7 at that, because I anticipated there would be a
8 question on that. Let me just look here.

9 We have not just continuous outcomes on
10 patients but we also have the provider prescription
11 rates. For question two, the sample size
12 justification was a baseline rate of recurrent
13 narcotic prescriptions at one year, and an one-third
14 reduction.

15 The literature says about 12 percent with
16 acute pain have a recurrent narcotic prescription at
17 one year when presenting to the emergency
18 department. You reduce that by a third, then that
19 is how we came up with 1,700 total or 850 per arm.

20 The first one, let me see if I can find it.
21 I also have -- if the phone was working --

22 DR. NORQUIST: Actually, the phone is

1 working now.

2 DR. KRUMHOLZ: You did actually do rates as
3 a primary outcome in the second one.

4 DR. WHITLOCK: Right. We had to do both,
5 so there would be less power for that.

6 DR. NORQUIST: Barbara?

7 DR. McNEIL: I actually have a similar
8 question, Evelyn. This is such an important
9 problem, if I link your data with the earlier
10 presentation by Joanna and her colleagues about the
11 time frame for dissemination and the fact that after
12 a study was ended, there was 13 months for the final
13 report, and then X months after that for a major
14 dissemination activity.

15 We are talking four or five years
16 potentially for the most important problem in the
17 country today. I am just wondering isn't there any
18 way we can compress the time line by getting a lot
19 more patients through a lot more sites. I don't
20 know how we would do this, but I think this is a
21 critical study, but the time line just seems way off
22 for me, for the nature of the problem. I think this

1 is going to be a why did it take so long kind of
2 study.

3 Could we talk about that a little bit? I
4 understand the power calculations given the number
5 of sites, and I certainly relate to Harlan's comment
6 about the continuous sets of outcomes. I really
7 think we need to do something to cut down the time.

8 DR. NORQUIST: We can talk about that.
9 Evelyn, there must have been some discussion about
10 the time.

11 DR. WHITLOCK: I don't think so. I think
12 this is a good comment, and I think certainly if we
13 go back to the time line, if you decide to approve
14 these today, we will be working on the targeted
15 funding announcements, and certainly we can go back
16 and consider whether it would make sense to try to
17 expand the --

18 DR. NORQUIST: You are writing the PFA, we
19 are not funding on X study now, so we could ask
20 people to come up with ideas about how they might be
21 able to do this quicker, I mean a shorter time line.

22 DR. WHITLOCK: Correct.

1 UNIDENTIFIED: This is Penny. I'm a
2 program officer that worked on this particular
3 announcement. It is actually three years for both
4 of the studies, so it is not four to five, and we
5 had encouraged the compressed time frame.

6 DR. NORQUIST: No, she is talking about
7 also when the results come out. Go ahead, Barbara.

8 DR. McNEIL: No, I understood the three
9 years, but then I was very concerned with the
10 earlier presentation about the final report and the
11 results. Isn't there a way of just telling people
12 we want results in a year and a half and saying get
13 the population to do it? That is your job.

14 DR. NORQUIST: Yes, I think the other issue
15 is whether you expect to get an endpoint on some of
16 your outcomes within a year or two. That might be
17 the other limitation on the time here, I don't know.

18 UNIDENTIFIED: Hi, this is Brittany --

19 DR. NORQUIST: Wait, I'm sorry. We need a
20 little bit of order here. Evelyn is getting ready
21 to say something, and then I will let you come in.

22 DR. WHITLOCK: What I was going to say was

1 I think we can look at the critical nature of the
2 information that would be reduced here, see if there
3 is any way we can give priority to folks that could
4 produce the information more quickly considering
5 both the recruitment rates, as well as the time
6 frame to the outcomes.

7 As was talked about earlier, perhaps it is
8 possible for us to write in, talking about whether
9 we can say to people that people have to guarantee
10 they are going to get their reports back to us in a
11 short period of time for this particular topic.

12 DR. NORQUIST: That was the discussion we
13 just had about trying to push the time period and
14 shorten that. I think not only with this one, we
15 are going to be pushing it for others, too.

16 DR. McNEIL: Getting the study finished,
17 but the dissemination activity done, really compress
18 the whole --

19 DR. NORQUIST: That is what we were just
20 talking about, both pieces, both parts of what make
21 up the whole time line here. Someone on the phone
22 wanted to say something, so if you want to do that,

1 and we have some people here in the room that are
2 going to make comments.

3 UNIDENTIFIED: Thank you. Evelyn covered
4 the comment I was going to add.

5 DR. NORQUIST: Okay, thanks. Sharon and
6 then Leah.

7 DR. LEVINE: One of the thing that is
8 important about this is there is already a lot of
9 natural uncontrolled experiments going on,
10 everything from just say no to real efforts to try
11 and address the problem.

12 One of the things I'm struggling with is
13 your definition of "primary care" including
14 emergency departments and dentists. I don't think
15 emergency department physicians consider themselves
16 primary care physicians, and the nature of the
17 problem is different in emergency departments,
18 dental offices, and what we traditionally consider
19 primary care adult family medicine offices.

20 The problem with dental practices and with
21 post-op patients, if you will, is the default size
22 of the prescription, defaulting to 100 Vicodin as

1 opposed to 6.

2 There are a lot of subsets of this, and I
3 think if the TPFA was written to identify the
4 optimal approach to addressing different aspects of
5 the problem, which are rolling up into a massive
6 over prescribing of opioids, we might be able to see
7 some things accomplished very quickly.

8 DR. WHITLOCK: I think what you will notice
9 in these presentations is that we are a little bit
10 less prescriptive perhaps than we have been in
11 previous targeted funding announcements to leave
12 room because of exactly what you are saying, that
13 the optimal strategy for the ED could be well
14 different than the optimal strategy for the family
15 or adult medicine person, but I think your point is
16 we want people to justify why what they are
17 proposing is an optimal strategy for that
18 environment and is comparing optimal strategies for
19 that environment. That is a really good point.

20 DR. LEVINE: The other thing is we have
21 already seen, I think the number of prescriptions of
22 opioids in 2014, so there has already been about a

1 13 percent decline, not in the number of pills
2 dispensed, but in the number of prescriptions.

3 DR. WHITLOCK: Yes. There is definitely
4 still room for improvement.

5 DR. NORQUIST: Leah?

6 MS. HOLE-MARSHALL: Thank you. This is an
7 important topic, particularly to me, and I
8 appreciate seeing it come to fruition and appreciate
9 all the efforts of you and the staff to get it here.

10 I just wanted to second some of the
11 comments that I heard. I think that we could
12 without over prescribing the study in the TPFA point
13 out some of the issues that we have heard today
14 acknowledging urgency versus the tradeoff
15 potentially of certain outcomes that we are
16 interested in, whether or not interim reporting of
17 certain outcomes would be appropriate, and then
18 seeing the principal investigators respond to things
19 like that.

20 It may make our merit review more difficult
21 if we are trying to -- they addressed this piece of
22 it, and may address that piece of it, but as long as

1 we were clear.

2 Then some carrots, maybe this is a
3 potential for us to experiment a little with carrots
4 related to if your proposal is one where you
5 recognize this urgency and also are agreeing to
6 shorter time frames on other things that don't
7 impact outcomes, like reporting, you will get a five
8 percent bonus, however you would score it, but
9 letting them know that we are not going to change
10 the requirements for everybody, but there might be
11 carrots for certain things, where it is appropriate.

12 DR. NORQUIST: I don't see any others. I
13 think one thing I would say is that NIDA is very
14 interested in us doing this, National Institute on
15 Drug Abuse. It is not an area they have really been
16 into. I think we should say that also as one of our
17 partners in some of the work that we have done on
18 substance use.

19 DR. COLLINS: I wanted to also endorse what
20 you just said, Gray, and also to say that I think
21 particularly the way in which these are designed,
22 and I think particularly the first one, the

1 opportunity to try to recreate the settings that
2 traditionally were more available than they are now,
3 mainly pain clinics, where you explored a variety of
4 ways of pain relief outside of opioids, which has
5 almost disappeared from the landscape in large part
6 because they are not reimbursed.

7 We have to figure out a way to reintroduce
8 some of those non-addictive alternatives. I assume
9 that is a big part of what you are trying to achieve
10 in the first of these two.

11 DR. WHITLOCK: That's correct.

12 DR. NORQUIST: I need a motion to approve.
13 Steve?

14 M O T I O N

15 MR. LIPSTEIN: So move.

16 DR. JESSE: Second.

17 DR. NORQUIST: All those in favor, raise
18 your hand in the room.

19 [Show of hands.]

20 DR. NORQUIST: Anyone opposed?

21 [No response.]

22 DR. NORQUIST: Anyone abstaining?

1 [No response.]

2 DR. NORQUIST: Okay. Francis, you are
3 voting how?

4 DR. COLLINS: Approve.

5 DR. NORQUIST: Harlan Weisman?

6 DR. WEISMAN: Approve.

7 DR. NORQUIST: Allen Douma?

8 DR. DOUMA: Approve.

9 DR. NORQUIST: Okay. Bob Zwolak?

10 DR. ZWOLAK: For clarity sake, I wonder if
11 we could discuss for a minute the concept of writing
12 in this urgency issue. Is that generally supported?
13 I am worried about Leah's question of potentially
14 even a financial incentive for urgency. I don't
15 think that would work very well, but certainly
16 writing the urgency concept into the PFA --

17 DR. NORQUIST: I think that is kind of a
18 key issue for all of them. I think this is an
19 urgent issue. I think all of the things that we are
20 doing should be considered -- it is the most
21 reasonable thing to do.

22 I think this one in particular certainly

1 has a big -- there is an IOM Panel now that is being
2 formed by the FDA to look at opioid issues. I think
3 within reason. Barbara?

4 DR. McNEIL: Is there any way of putting
5 into the announcement something -- this is not the
6 right wording, but preference will be given or
7 consideration will be given to the length of time
8 for completion of the study?

9 DR. NORQUIST: Rating it higher?

10 DR. McNEIL: Yes.

11 DR. NORQUIST: I guess we could put that in
12 that we are very interested in those that can be
13 done in a much more expeditious manner or something,
14 and we do expect the results to be available readily
15 or something. You will have to come back with
16 whatever the wording is on that, we are just making
17 it up now. I think you are getting the gist of what
18 we are saying.

19 Last but not least -- I'm sorry. Christine
20 had her card up. Is that Allen?

21 DR. DOUMA: Yes, it is.

22 DR. NORQUIST: Christine?

1 DR. GOERTZ: I agree about trying to
2 expedite things, but we have to remember there is a
3 tradeoff between expediting results and length of
4 follow up. We want to make sure we are not
5 encouraging people to come in with really short
6 lengths of follow up that really impacts the
7 usefulness of the study.

8 Just one thing, I think it said these
9 grants would be funded in July of 2016 on the slide.
10 I just wondered if you could clarify the time line.

11 DR. WHITLOCK: It should be -- hold on. I
12 think it is May of 2017.

13 DR. GOERTZ: Great, thank you.

14 DR. WHITLOCK: The PFAs would be released
15 August 2016 and it goes from there.

16 DR. NORQUIST: All right. Allen?

17 DR. DOUMA: My question was directed to
18 that, how long before we actually start, and that
19 May start date, is that when the project actually
20 begins or when funding starts?

21 DR. WHITLOCK: May 2017, I'll show you the
22 time line at the end, but what you vote on today, we

1 will get the targeted announcements out by August,
2 and then we would plan to have you vote, it is on
3 the schedule for you to vote in May, so then we have
4 to set up the contracts. That is how it works.

5 DR. NORQUIST: They would not actually be
6 starting and funded probably until the summer of
7 2017.

8 DR. WHITLOCK: Yes. I don't know all the
9 time lines.

10 DR. NORQUIST: I think that is one of those
11 things I said earlier, if there is a way to even
12 compress somewhat our whole process of getting to
13 that, I know that's not easy, but that might be
14 another piece on the front end we could compress.

15 DR. WHITLOCK: The one thing I do know is
16 you can prioritize some things, you just can't
17 prioritize everything. I take the point that
18 opioids, if there is anything we can do a fast track
19 on, this is definitely one that we should do our
20 best to do. I take that point.

21 DR. NORQUIST: Okay, maybe that is one we
22 can speed up. We will see.

1 DR. WHITLOCK: We will do our best.

2 DR. NORQUIST: I know you will. Where are
3 we? Palliative care.

4 DR. WHITLOCK: Now we are on palliative
5 care, and thank you for all of the good ideas and
6 input. This targeted funding announcement is
7 looking at community-based palliative care delivery
8 for adult patients with advanced illnesses and
9 looking at the impact on those patients and their
10 caregivers.

11 There are two separate goals for this. The
12 first is to support advanced care planning over
13 time, and make sure that it is consistent with what
14 are patients' goals and preferences. Then to
15 support the delivery of community-based coordinated
16 palliative care that implements those care plans.

17 As many of you are probably aware,
18 palliative care is under delivered but very
19 important. Palliative care is more than hospice.
20 Hospice is just a setting for delivering palliative
21 care.

22 In those that have advanced serious

1 illness, there is a significant burden on them and
2 on their caregivers in terms of symptoms and quality
3 of life, and systematic reviews show getting
4 palliative care can make a real difference for
5 patients and for caregivers.

6 There are a number of components of
7 palliative care which include systematic assessment
8 and management of patient symptoms, psychosocial
9 support for patients and caregivers, advanced care
10 planning, and coordination among different
11 clinicians, to facilitate goal concordant care, and
12 you will hear that "goal concordant care" again and
13 again because it is in some ways maybe the gold
14 standard of outcomes in this area, that people get
15 the care that they really wanted to get at the point
16 in their illness trajectory that they receive care.

17 There are many different perspectives that
18 have gone into developing this funding announcement.
19 This funding announcement tries to address the fact
20 that palliative care is typically limited to end of
21 life hospice or in-patient hospitals, and not where
22 patients live in the community, that we don't have a

1 huge workforce of palliative care specialists, and
2 community clinicians are under prepared to work in
3 this important area.

4 Decision makers, systems and payers need to
5 know the comparative information on the most
6 effective and efficient ways to deliver palliative
7 care in the community, and that even at the level of
8 the World Health Organization, people are being
9 encouraged to emphasize delivery of palliative care
10 services in primary care communities and home-based
11 care.

12 This is also, I think, a very timely
13 opportunity for PCORI in terms of funding. On
14 January 1, 2016, Medicare approved reimbursement for
15 advanced care planning discussions, and they can
16 happen repeatedly as is recommended.

17 Also, payment reform through the Affordable
18 Care Act incentivizes delivery of high quality
19 coordinated care, and similarly to several of the
20 other PFAs I talked to you about, there are research
21 infrastructure opportunities that are federally
22 funded that make research in this area very timely,

1 and other researchers recognize that PCORI in
2 particular is well positioned to do this kind of
3 work.

4 There are evidence gaps that are limiting
5 the implementation of advanced care planning at this
6 point. Most studies of advanced care planning look
7 at one time interactions, look at relatively short-
8 term outcomes, and don't look at what I told you was
9 probably the gold standard, which is goal concordant
10 care. Most of them don't look at an integrated
11 approach, looking at both patient focused
12 interventions and clinician focused interventions.

13 So, there are gaps suggested by systematic
14 reviews in terms of how best to understand what are
15 the effective elements of advanced care planning and
16 how best to implement it into standard care.

17 The first research question focuses on
18 advanced care planning, looking at different
19 communication and combination approaches that focus
20 on patients, caregivers, and clinicians, that look
21 at facilitating advanced care planning discussions.

22 There is a focus because these prior

1 research and the application of these services have
2 been generally limited. There is a focus here on
3 getting geographically, racially and ethnically
4 diverse patients that are living at home, and to try
5 to move beyond a focus on just one area to looking
6 at any advanced illness, and those who experience a
7 high symptom burden.

8 Examples that we would encourage are
9 advanced heart failure, advanced COPD, advanced
10 kidney disease, advanced neurodegenerative diseases,
11 cancers would also be considered, but we would like
12 it if folks would be a little broader than some of
13 the prior research has been so that it is more
14 generalizable.

15 The idea is to focus on efficacious or
16 widely used programs and interventions that
17 facilitate advanced care planning conversations and
18 documentation of these goals in the patient record,
19 and that will look at these over time.

20 If you look at this schematic, it is really
21 just to emphasize that the orange blocks focus on
22 the interventions that would be looked at in this

1 PFA, patient and caregiver directed preparedness,
2 and clinician directed training and preparedness,
3 and on the left is patients with advanced disease
4 going through a series of discussions, updated
5 discussions, and then receiving goal concordant care
6 on to the setting of death.

7 At the bottom, you see proximal,
8 intermediate, and distal outcomes. These
9 announcements will emphasize the measurement of
10 distal outcomes, which have rarely been measured in
11 the research to date. Goal concordant care, setting
12 of death, and the impact on bereavement. The idea
13 is to really look at the ultimate health impact.

14 The timing would be up to five years in
15 order to get these distal outcomes. We would want
16 to have multi-site community-based settings, such as
17 hospital-based clinics, solo or group physician
18 practices, and patient homes. We would not address
19 institutionalized settings such as hospice and
20 nursing homes in this announcement.

21 We would like to see a randomized control
22 trial or cluster randomized control trial, mixed

1 methods, because of the inherent diversity of
2 patients as well as settings that would be studied.
3 Our sample size desire would be 750 plus patient and
4 caregiver dyads with multiple follow up data
5 collection points.

6 We believe with a commitment of \$18 million
7 total dollars that we could fund three to five
8 studies, and that would give us a nice start on
9 information that could inform the delivery of these
10 services to patient advantage.

11 The second -- I will be almost finished,
12 and thanks for your patience in listening -- the
13 second area that will be focused on in this PFA is
14 looking at models of care that deliver community-
15 based palliative care.

16 There are efficacious models but it's not
17 clear how people should decide between them, and the
18 organization and the delivery of palliative care in
19 community settings. There have not been multi-site
20 studies.

21 Generally, as we referred to in an earlier
22 population, there has generally been a very limited

1 focus on selected illnesses and narrow groups of
2 individuals, and it would be helpful to standardize
3 outcomes and provide some head to head comparisons.

4 This particular question does focus on the
5 comparative effectiveness of different established
6 models of palliative care in the community, and the
7 impact on patients and their caregivers. Same
8 population as the earlier question.

9 The interventions and comparators differ in
10 that they are looking at different models of
11 established care that differ in their level of
12 integration between primary and subspecialty
13 clinicians, that differ perhaps in the site of where
14 they are delivered or in the method of delivery.
15 You will see that remote and tele-medicine are on
16 here for the possibility of rural delivery.

17 The outcomes are patient and caregiver
18 quality of life as the primary outcome, along with
19 symptom burden, distress, and receipt of goal
20 concordant care, as we have talked about, and then
21 secondary experiences around satisfaction,
22 utilization, and out-of-pocket costs and expenses.

1 These are also up to five years, similar
2 kind of setting as the first question, and we
3 believe in having a cluster or randomized control
4 trial, having a sample size of around 1,000 plus
5 patients and their caregivers, so a total of around
6 2,000 would make the most sense. I can give you
7 some rationale for that, if you would like.

8 We believe that the commitment of \$30
9 million total dollars will fund up to three studies,
10 and that would provide a lot of information for the
11 field in this important area.

12 I will stop there. I went through the time
13 line earlier, this is just a reminder of the time
14 line for any of those you approve today. I will
15 turn it over to Bob.

16 DR. ZWOLAK: Thanks, nice job. The SOC
17 looked at this in detail and endorses the plan
18 provided by Evelyn. I think that any effort we can
19 make to shine the light on advanced care planning in
20 the community before our loved ones show up in the
21 acute care hospitals for their last admission is
22 something we really need to do and help figure out

1 how to make it work right.

2 This is another important topic that I
3 think should be a targeted PFA.

4 DR. NORQUIST: I saw Larry's card up first,
5 and then Sharon Levine.

6 MR. BECKER: I just wanted to test my
7 understanding. I think Bob's comment clarified for
8 me, but just let me test this, and that is some
9 parts of these studies will include call it
10 "education" for patients and their families before
11 they ever get to being sort of in the bed.

12 DR. WHITLOCK: Yes, I think advanced care
13 planning discussions can happen at any point. One
14 of the good things is because Medicare is now
15 reimbursing for this. We hope that more clinicians
16 will be having these discussions with their patients
17 and their families, and then updating those
18 discussions over time.

19 I think there is an enormous opportunity
20 for us to do research as well as to shine the light
21 on how important the practice is.

22 DR. LEVINE: I would hope that one of the

1 research proposals involves looking at what is
2 happening in La Crosse, Wisconsin with the Gundersen
3 Health System, which has a phenomenal program called
4 "Respecting Choices," which is a community-wide
5 effort, and advanced care planning begins when you
6 are 55 whether or not you have an illness yet at
7 that point.

8 What they have been able to demonstrate is
9 by
10 incorporating it into routine care after the age of
11 55, and it begins with what they call "first steps,"
12 which is identifying the "what if," who would you
13 want to make decisions for you, and then revisiting
14 it at every routine appointment.

15 When someone develops a chronic or life
16 threatening illness, the path has been so well paved
17 that those conversations don't fall to the poor
18 oncologist to say oh, by the way, you know, there
19 are some things we need to talk about.

20 It is a fabulous model, and it has been
21 seated in places around the country. I am hoping
22 somebody includes it as a comparator.

1 DR. WHITLOCK: I'm wondering if just based
2 on your comments, we have RCT or cluster RCT, if
3 maybe we should allow in a large observational
4 study.

5 DR. NORQUIST: Allen, then Harlan Weisman,
6 and then Alicia. Allen?

7 DR. DOUMA: I just think we ought to
8 reinforce it is incredibly important, and my concern
9 though is if you look at the community-based models
10 that were listed here in our handout at least, all
11 three of them, bottom line, look really a lot alike,
12 assuming after somebody gets a referral, they go and
13 utilize the services.

14 My concern is we are going to show these
15 all look pretty good, but we're not going to prove
16 anything, because we don't have a comparative with
17 something that doesn't work.

18 DR. WHITLOCK: Thanks, Allen. Are you
19 suggesting then that there should be an usual care
20 comparator at least in some of these? Is that what
21 you're saying?

22 DR. DOUMA: Yes, an observational study,

1 but RCTs, as we all know, are always more profound.
2 Yes, I think we need to have something that is not
3 great in order to show a difference. The same issue
4 with regard to Hepatitis C, we can't assign people
5 to something that is not great.

6 DR. NORQUIST: Harlan Weisman, your turn.

7 DR. WEISMAN: I just wanted to follow up on
8 both Larry's question and Sharon's comment. I am
9 really confused between question one clinical
10 trials, and question two clinical trials, in terms
11 of the patient population because they are
12 identical, as far as I can tell when I read them
13 both.

14 It's not clear to me which patients are
15 going to which trial and which questions are more
16 relevant for which populations, or are we saying
17 it's the same population, two different sets of
18 questions, how does advanced care planning and
19 palliative care delivered, how are they interacting
20 with each other in terms of the knowledge base that
21 we are creating.

22 I was just wondering whether synthesizing

1 the two of them together makes sense, particularly
2 given Sharon's suggestion of the kinds of patients
3 that might be included are not in the definition of
4 the patient population.

5 DR. WHITLOCK: Thanks for that. I think if
6 we were -- this is just my opinion. If we were to
7 deliver palliative care and advanced care planning
8 appropriately, then we would be engaging with people
9 more in advance of some of the illnesses.

10 It may be that if we take the population
11 and rather than requiring they already have an
12 advanced illness with a high symptom burden, if we
13 also allow it to be just advanced stage, and we will
14 let them define that because I don't want to define
15 that. That was a joke.

16 Anyway, if we do that, it would make some
17 distinction because there is a distinction between
18 the advanced care planning discussions and the
19 documentation, and then the actual delivery of
20 services that help people to cope and feel better.

21 These two do compliment each other, but
22 your point is well taken, and Sharon's point is well

1 taken, that maybe we need to recognize there often
2 could be and should be upstream discussions around
3 advanced care planning before people are quite at
4 the point of needing a lot of services.

5 DR. WEISMAN: Since you are looking at
6 long-term, doesn't the way the palliative care gets
7 delivered impact the effectiveness of the advanced
8 care planning? In other words, if you get the
9 advanced care planning right, but you have chosen a
10 wrong model, in other words, they are interacting
11 with each other in a way that seems to me needs to
12 be synthesized.

13 DR. WHITLOCK: We will take that under
14 advisement, thank you.

15 DR. NORQUIST: Alicia?

16 DR. FERNANDEZ: Just two quick comments. I
17 am familiar with these from the SOC, and I am very
18 enthusiastic and supportive. One issue is I was
19 hoping we could have something in there about
20 sustainable and scalable interventions, and you
21 don't need to respond to that now, but I know we
22 brought it up before, and I am wondering whether we

1 can put that in.

2 There have been quite a number of very
3 successful small scale advanced directive
4 interventions, and I think where we can make a
5 difference is in what actually works on a larger
6 level.

7 I have another comment. The other comment
8 is simply a logistical one of necessity, our time
9 table between the time the PFA goes out and the LOI
10 is due is like a month, a month in August or
11 something.

12 I am wondering if there is a way we can
13 work with -- this is not so much for you, but a way
14 we can work with our specialty society colleagues
15 once this PFA is approved, to get it out there, to
16 make people well aware of this before the actual
17 release.

18 I can't remember whether our LOI process is
19 obligatory or not. It is, right? Otherwise, it
20 will absolutely limit the number of people, and it
21 just is not going to work. Not many people can
22 write a grant or a good LOI in three weeks in

1 August.

2 DR. WHITLOCK: Thank you for both of those.
3 We already have planned, as I mentioned, and
4 probably I didn't say it clearly, we retain some
5 details on these slides because we are going to be
6 putting them up on the Web site as we always do, but
7 pointing to them in a pre-announcement before the
8 PFAs go out.

9 We actually are going to be putting out a
10 pre-announcement. We're going to be targeting
11 groups as appropriate, but we agree, we need to give
12 people more time, and that's one way we are going to
13 try to do it.

14 DR. FERNANDEZ: By "targeting groups," you
15 mean working with the specialty societies?

16 DR. WHITLOCK: Specialty societies. I
17 haven't got a complete strategy worked out, but it
18 might be existing researchers in the field, things
19 like that, where we know we can go to places where
20 they will distribute these and make people aware,
21 because we are trying to get ahead, as you
22 suggested.

1 DR. NORQUIST: That is a good point,
2 because the summer is going to be dead, in August,
3 people are not going to be around and then come back
4 suddenly. The sooner out, the better; yes.

5 DR. FERNANDEZ: What do you think about
6 language on scale?

7 DR. WHITLOCK: It's fine, just know
8 everything that is in the PFA can't be in these
9 slides. I did well to keep all of this against
10 editors.

11 DR. NORQUIST: Other comments?

12 [No response.]

13 DR. NORQUIST: I need a motion to approve.

14 M O T I O N

15 DR. BARNETT: So move.

16 DR. NORQUIST: Second?

17 DR. FERNANDEZ: Second.

18 DR. NORQUIST: All those in favor, raise
19 your hand.

20 [Show of hands.]

21 DR. NORQUIST: Anyone opposed, raise your
22 hand.

1 [No response.]

2 DR. NORQUIST: Anybody abstaining?

3 [No response.]

4 DR. NORQUIST: On the phone, Allen?

5 DR. DOUMA: Approve.

6 DR. NORQUIST: Harlan Weisman?

7 DR. WEISMAN: Approve.

8 DR. NORQUIST: Francis?

9 DR. COLLINS: Approve.

10 DR. NORQUIST: Okay, that's it. Thank you.

11 DR. WHITLOCK: On behalf of the science
12 staff, I want to say thank you. We are all really
13 excited about these. We are going to work our tails
14 off to get these out and get good applications.
15 Thank you.

16 DR. NORQUIST: Thank you, Evelyn, and all
17 of the staff, and Bob, too, to the SOC and your
18 folks, thanks.

19 DR. ZWOLAK: Thank you.

20 DR. NORQUIST: You don't go anywhere,
21 Evelyn. You have the next one as well, right, with
22 Christine.

1 DR. WHITLOCK: I have three studies that
2 need to be voted on, with Christine.

3 DR. NORQUIST: These are additional awards
4 from Cycle 1, one from the large pragmatic and Cycle
5 2 for the broad's, right?

6 DR. WHITLOCK: Yes. There are three
7 studies, we are 15 minutes behind. I was supposed
8 to have --

9 DR. NORQUIST: Wait, I just need to say
10 that in this particular discussion, we have some
11 people who are recused for conflicts of interest, so
12 that is Debra Barksdale, Steve Lipstein, Alicia
13 Fernandez, Andy Bindman, and Robert Zwolak. Okay,
14 now you can go.

15 DR. WHITLOCK: David Hickam, are you on the
16 phone?

17 DR. HICKAM: Yes, I'm on the phone.

18 DR. WHITLOCK: Dave, we are behind. We
19 were supposed to be finished by 4:45. Dave is going
20 to present the first study because I am recused from
21 the study.

22 DR. NORQUIST: You're recused? That is not

1 on there.

2 DR. WHITLOCK: Cycle 1 pragmatic studies
3 funding slate, comparative effectiveness of breast
4 cancer screening and diagnostic evaluation by extent
5 of breast density. Dave, can you take us through
6 this real quickly?

7 I am on the additional pragmatic study, the
8 name is in addition to the 2015 Cycle 1, and I'm on
9 slide 130 with the research question. Do you mind
10 taking us through this, please?

11 DR. HICKAM: Yes, thank you. This is David
12 Hickam. I am a science program director at PCORI.
13 I am going to briefly summarize for you an
14 additional study that is being proposed to add to
15 the previously approved slate for pragmatic clinical
16 studies.

17 This is a proposed large scale prospective
18 study with an observational design addressing the
19 question of personalizing breast cancer screening on
20 the basis of women's breast densities.

21 There is also a second aim of this study,
22 which is a smaller aim looking at the contribution

1 of MRI imaging to the preoperative evaluation of
2 women who screen positive for breast cancer after
3 routine screening procedures.

4 The population of this study would be women
5 between the ages of 18 and 64, including all stages
6 of breast density from essential minimal density to
7 the most dense breasts.

8 As I said before, this is a prospective
9 observational study, it builds upon an existing
10 infrastructure for doing prospective monitoring of
11 women who receive breast cancer screening in routine
12 clinical settings.

13 It is essentially in the first aim looking
14 at the comparison of digital mammography alone to
15 digital mammography with various supplemental
16 screening modalities, the most widely used of those
17 now is called "tomosynthesis."

18 Also, in further negotiations with these
19 applicants, a question came up about variation in
20 the reading of tomosynthesis exams based upon the
21 experience of community radiologists, so that was
22 added as a third aim, essentially as a substudy of

1 this project that had a minimal effect on the
2 study's budget.

3 This study looks at fairly standard
4 outcomes that can be measured over a reasonable
5 period of time, including the rates of screen
6 detected early stage cancers, the rates of later
7 stage cancers, various types of patient reported
8 outcomes having to do with women's experience with
9 the screening process, and then some projected long-
10 term clinical outcomes based upon basically state-
11 of-the-art modeling approaches.

12 The second aim, looking at supplemental
13 imaging for women who are undergoing further
14 evaluation after screening positive, essentially
15 looking at the success of treatment in those women.

16 The study's budget for this comes in at
17 around \$7 million. I think this is a typo in the
18 slide. It says \$8 million. It is close to \$7
19 million for total budget.

20 It has really good engagement, and
21 basically has an important potential impact because
22 as many of you know, several states in the United

1 States are now requiring that women be informed
2 about their extent of breast density with a breast
3 density having been recognized as a risk factor for
4 developing breast cancer, so this study will provide
5 better evidence to guide clinicians in advising
6 women about their screening options.

7 This would add one project to the
8 previously approved slate of five projects in that
9 round of large pragmatic studies, bringing the total
10 expenditure up to somewhere in the neighborhood of
11 \$67 million.

12 We are basically calling for discussion and
13 a vote by the Board of Governors.

14 DR. NORQUIST: We are open now for
15 discussion. Rick Kuntz?

16 DR. KUNTZ: Thanks for explaining this,
17 Dave. It looks really good. Can you very quickly
18 tell me why you didn't want to do a randomization in
19 this one? There are a lot of variables here. If
20 not, just what kind of baseline controls you are
21 going to ask for?

22 DR. HICKAM: Basically, in order to be able

1 to sort of look at a broad range of women by density
2 of the breast, sample size requirements are quite
3 large. This study will actually have an estimated
4 sample size of higher than two million women based
5 upon the multiple United States sites at which it
6 will take place.

7 As you can tell, for doing a randomized
8 control trial with sample sizes in that range, it is
9 just not realistic.

10 DR. WHITLOCK: Just one clarification. It
11 is actually one million women having about 2.5
12 million exam's, to be clear.

13 DR. HICKAM: I'm sorry, thank you for that
14 clarification. Yes, you are right. I was counting
15 exam's rather than women, sorry about that. Still,
16 sample size is quite large, and a randomized control
17 trial would require probably upwards of 10 years to
18 be able to enroll that many women.

19 DR. KUNTZ: That is a good response. I
20 just wondered if you could also just synthesize the
21 rigor of confounding controls because you will get
22 the wrong answer if you don't control confounding.

1 DR. HICKAM: This uses really state-of-the-
2 art to control for confounding using both propensity
3 score and instrumental variable techniques. We felt
4 this really passed mustard in terms of using the
5 appropriate adjustment techniques for controlling
6 for confounding.

7 DR. DOUMA: Gray?

8 DR. NORQUIST: Wait a minute, Allen.
9 Barbara was up next and then you.

10 DR. McNEIL: I have talked about this a lot
11 at the SOC and with David and various people. I
12 have to say I am still not enthusiastic about it,
13 and I apologize for my continued lack of enthusiasm.

14 The first part of it relates to something
15 that Rick just said, I think it is going to be very
16 hard no matter how much you control -- excuse me one
17 second. Maybe this is a sign that I shouldn't be
18 speaking.

19 DR. NORQUIST: Barbara, we will let you
20 drink some water and I'll let Allen make a comment,
21 and then we will come back to you. Allen, go ahead.
22 Barbara is taking a little break here.

1 DR. DOUMA: A lot of comments but a
2 question. What is the time frame for completion of
3 the study?

4 DR. HICKAM: The study would have a five
5 year time frame.

6 DR. DOUMA: We are talking about 6 to 7
7 years before we get information out?

8 DR. HICKAM: I think it is a discussion
9 that occurred a little earlier in this meeting, look
10 to see the extent to which they would have interim
11 results available and a shorter time frame, and how
12 we could expedite sort of the final data analysis
13 stage of the project.

14 DR. DOUMA: Are you saying that is the plan
15 or that is just something we could consider?

16 DR. HICKAM: That would be the plan.

17 DR. NORQUIST: Barbara?

18 DR. McNEIL: Sorry. I think it is going to
19 be very hard to control. I think Rick was right.
20 Most people are getting tomo's, it is just the norm
21 in most places. I think we have to account for
22 that. The second part is people don't care about

1 learning curves. They care about the end result. I
2 think I said that in an earlier meeting.

3 I would be very interested in knowing the
4 accuracy of various kinds of radiologists as a
5 function of location and number of exam's read at a
6 particular point in time. As of yet, you haven't
7 got there, and I think most people feel that way.

8 I would hate to be spending a lot of money
9 to be actually getting a curve, when in fact the
10 only thing that counts is the last point.

11 Going back to the first one, I think this
12 whole issue of whether any mammographer is going to
13 believe a result no matter how many propensity
14 scores or instrumental variables we do, that hasn't
15 been based on a full study of everybody getting
16 everything is remarkably low.

17 By five years from now, I guarantee there
18 is not going to be a woman in the country with dense
19 breasts who is not going to have a tomographic
20 study, and maybe there is not going to be a woman
21 anywhere who is not going to get a tomographic
22 study.

1 UNIDENTIFIED: [Inaudible.]

2 DR. McNEIL: Yes, but I don't do
3 mammography.

4 DR. WHITLOCK: This study has been really
5 carefully and extensively discussed at the SC level
6 and we have had -- thanks to Barbara's concerns, I
7 think there has been a lot of staff work in looking
8 at how to make sure the study was scientifically
9 sound and trying to address her concerns to the
10 extent possible.

11 In the end, the SC did vote to recommend to
12 the Board that this study be funded.

13 DR. NORQUIST: Harlan?

14 DR. KRUMHOLZ: I just want to clarify, and
15 I have such respect for Barbara, I do think the
16 Board in cases like these needs to be reflecting on
17 process so that unless there is some major fatal
18 flaw that wasn't appreciated and discussed in the
19 prior area, that it is hard for us to be in the
20 position, I think, to overturn the decision that
21 went forward.

22 We have used this platform to be able to

1 express ourselves, which I think is fair and
2 appreciated, actually, to hear what were some of the
3 points of tension and decision, but I do want to say
4 -- Steve Lipstein has brought this up many times,
5 and I agree with him -- without that fatal flaw and
6 if the process is to proceed, we need a strong
7 process and respect that process. I think that has
8 to occur throughout the organization.

9 I am both appreciating and trying to honor
10 what Barbara is sharing but also saying as a board,
11 I think we need to -- if we start violating the
12 process, then the whole thing starts to unravel, and
13 it undoes a lot of hours of work by members on all
14 sides, so I want to endorse the decision and endorse
15 the process.

16 DR. NORQUIST: Also, this did go through
17 peer review, correct?

18 DR. WHITLOCK: Yes.

19 DR. KRUMHOLZ: Part of the process is
20 review, then Selection Committee staff, that is what
21 I mean, that whole arc of review. At this point, I
22 think we should be focusing on whether the process

1 was followed well and respected.

2 DR. NORQUIST: Or is it within the
3 portfolio balance or whatever, so the fiduciary
4 issue. Sharon?

5 DR. LEVINE: Just a clarifying question and
6 maybe Barbara is the best person to answer. How
7 much congruence is there in interpreting degree of
8 breast density among mammographers? Radiology.

9 DR. McNEIL: I'm not sure I know. Yes, I
10 know a lot of congruence, the degree of, I'm not so
11 sure. I think there is more variability there.

12 DR. WHITLOCK: That actually was data that
13 we reviewed for the U.S. Preventive Service Task
14 Force. It was 12, depending on which category
15 changes, at least 12 percent mis-categorization or
16 between sequential mammograms, so there is some
17 degree of variability in the field on digital
18 mammography.

19 Were you asking about tomosynthesis or
20 digital mammography?

21 DR. McNEIL: Digital mammography.

22 DR. WHITLOCK: Yes. I just want to comment

1 -- are you finished, Sharon? I didn't mean to cut
2 you off. In terms of the learning curve versus
3 accuracy, we did ask for the ability to do that, and
4 it can be done, but it is a fair additional cost,
5 and we were trying to minimize cost. If we want to
6 revisit that and we are willing to put additional
7 money into it, it can be done.

8 DR. NORQUIST: Okay. I don't see any other
9 comments. Anybody on the phone?

10 [No response.]

11 DR. NORQUIST: I need a motion to approve
12 the funding of this particular announcement.

13 M O T I O N

14 DR. LEVINE: So move.

15 DR. NORQUIST: Second?

16 DR. GOERTZ: Second.

17 DR. NORQUIST: Any further discussion?

18 [No response.]

19 DR. NORQUIST: We are ready to call, and I
20 will just remind you that Debra, Steve, Alicia,
21 Andy, and Bob Zwolak cannot vote. All those in
22 favor, raise your hand.

1 [Show of hands.]

2 DR. NORQUIST: Anyone opposed, raise your
3 hand.

4 [No response.]

5 DR. NORQUIST: Anybody abstaining?

6 [No response.]

7 DR. NORQUIST: On the phone, Allen?

8 DR. DOUMA: Approve.

9 DR. NORQUIST: Harlan Weisman?

10 DR. WEISMAN: Approve.

11 DR. NORQUIST: Francis?

12 DR. COLLINS: Approve.

13 DR. NORQUIST: Now we have one from the
14 broad, no one is recused, right? Mary? No one is
15 recused on this one.

16 MS. HENNESSEY: Unless someone volunteers.

17 DR. NORQUIST: Unless someone volunteers,
18 okay. I guess we will see in a minute.

19 DR. WHITLOCK: We will see if we can get
20 through this pretty quickly. You may recall from
21 the last time we spoke that you had approved several
22 proposals for funding, and you can see that we are

1 suggesting adding one to each of the programs,
2 Assessment of prevention, diagnosis, and treatment,
3 and the improving healthcare systems.

4 The overall impact will be going from an
5 overall funding level of about 16 percent to about
6 28 percent, if you decide to approve these.

7 In the first case, the additional
8 recommended project is one that is looking at high
9 intense periodic versus every week physical therapy
10 in children with cerebral palsy. It would add --
11 you can see these other projects that were already
12 addressed and approved.

13 The second would look at patient-centered
14 Hepatitis C care via tele-medicine for individuals
15 on opiate substitution therapy using a stepped wedge
16 cluster randomized control design.

17 Each of these were part of the broad slate.
18 They went through additional review and scrutiny by
19 the Selection Committee. The Selection Committee
20 was satisfied that both of them made sense within
21 the overall portfolio, and recommended them to come
22 forward to the Board for approval.

1 I want to point out that we still are well
2 within the overall dollar amount. There was \$76
3 million allotted for the broad for Cycle 2. If you
4 approve both of these, we will still be well within
5 that, at about \$55 million.

6 The distribution between programs, which is
7 done on an approximate formula, you can see over to
8 the left, there is an approximate formula by which
9 that is done, would be a little bit exceeded in the
10 case of improving healthcare systems, so you would
11 be going above its usual proportional allotment, but
12 within the overall amount.

13 Those are the recommendations from the
14 staff through the Selection Committee to add to the
15 Cycle 2 2015 broad slate.

16 DR. NORQUIST: Christine, did you want to
17 say anything from the Selection Committee?

18 DR. GOERTZ: No, I really don't have
19 anything to add.

20 DR. NORQUIST: Sharon? Bob Zwolak?

21 DR. ZWOLAK: On the breast density study,
22 there was an explanation in the agenda book of why

1 it fell out of cycle and what the extra requirements
2 were. I didn't see anything about that. Could we
3 have just a very brief summary of what negotiations
4 or requirements pushed these two out of cycle?

5 DR. WHITLOCK: There were questions -- the
6 first one, let me go back.

7 DR. NORQUIST: High intense periodic.

8 DR. WHITLOCK: The first one was the staff
9 had been uncertain about it, and thought it might be
10 worthy of an exception, but the SC asked for more
11 detail, so we went back and filled in that detail.
12 It was recommended to go forward. It was one in
13 which -- that is what happened. Does that make
14 sense, without getting into a lot of detail?

15 The SC asked us -- we had asked for an
16 exception because we weren't sure that it made
17 sense. We were asked to go back and confirm some
18 things, and the SC felt it made sense to fund. It
19 is consistent with another study that is funded by
20 NIH in the younger age group, and we weren't certain
21 that it made sense for the age group of children
22 that it is being applied to, but through further

1 work, it seemed that it did, and so it is being
2 recommended in score order.

3 DR. ZWOLAK: My question is focused on the
4 justification for approval out of cycle. That is a
5 perfect explanation.

6 DR. NORQUIST: The second one?

7 DR. WHITLOCK: The second one, I'm trying
8 to recall. I believe this was one that was
9 approved. Steve Clauser, are you on the phone? I
10 believe this one was approved by the SC for further
11 programmatic work, and we went and worked on it in
12 the area the SC asked us to, and brought it back.
13 It was approved and then brought forward. I believe
14 that is how that happened. Sorry, I can't remember
15 exactly.

16 DR. NORQUIST: Do you remember, Christine?

17 DR. GOERTZ: No.

18 DR. HOUTSMULLER: Hi, this is Elisabeth
19 Houtsmuller. Steve Clauser is not on the phone, but
20 I worked on this study as well.

21 DR. WHITLOCK: Thank you.

22 DR. HOUTSMULLER: That is what happened.

1 DR. WHITLOCK: Okay. When we were sent to
2 work on it further, I can't remember what we were
3 trying to get at, were we doing something with
4 sample size or were we trying to get in an
5 additional outcome about HCB transmission? I sort
6 of recall that is what we were getting in as the
7 issue of transmission. Is that right or no?

8 DR. HOUTSMULLER: Yes and no. We asked the
9 investigator to extend the follow up from 12 weeks
10 to 12 months, so that we could assess reinfection
11 during that time, and because of that, we also asked
12 him to increase the sample size, which he did, and a
13 final question -- there was a question from the
14 Selection Committee whether all the rural sites had
15 broadband availability, and we checked on that, and
16 they did. Those were the issues.

17 DR. WHITLOCK: Thank you. Yes, this has a
18 tele-medicine component. Does that answer your
19 question?

20 DR. NORQUIST: Yes. Any other questions or
21 comments?

22 [No response.]

1 DR. NORQUIST: I need a motion to approve
2 this.

3 M O T I O N

4 DR. ZWOLAK: So move.

5 DR. NORQUIST: Second?

6 MR. BECKER: Second.

7 DR. NORQUIST: All those in favor, raise
8 your hand.

9 [Show of hands.]

10 DR. NORQUIST: Anyone opposed, raise your
11 hand.

12 [No response.]

13 DR. NORQUIST: Anybody abstaining?

14 [No response.]

15 DR. NORQUIST: On the phone, Allen?

16 DR. DOUMA: Approve.

17 DR. NORQUIST: Harlan Weisman?

18 DR. WEISMAN: Approve.

19 DR. NORQUIST: Francis?

20 DR. COLLINS: Approve.

21 DR. NORQUIST: Okay. Thank you both very
22 much. Our next one, we are going to have a

1 discussion of portfolio analysis, something we
2 talked about in the past, looking at how we are
3 doing in the areas of pain, sleep, I think that is
4 really insomnia, and fatigue outcomes, as well as
5 depression. Evelyn and Alicia?

6 DR. WHITLOCK: I am going to make this as
7 quick as possible. This is a report back from the
8 February retreat, where there was a discussion about
9 the importance of measuring some key patient
10 important outcomes, particularly commonly reported
11 issues around mood, depression, anxiety, pain,
12 sleep, fatigue.

13 With the help of the Evaluation and
14 Analysis Group, we went back and looked at these
15 outcomes across the portfolio. We looked across our
16 portfolio data to look at projects that had at least
17 one of the following outcomes around pain assessment
18 or control, anxiety, depression, mood or well-being,
19 and then coding for insomnia or sleep and fatigue.

20 The details are here, and I know you have
21 those, so I won't belabor that. I just want to hit
22 the high points here.

1 We did not look at methods projects,
2 pilots, any of the projects that we were conducting
3 in a co-funding kind of way through a Memorandum of
4 Understanding with NIH or AHRQ or others. We didn't
5 look at the PCORNet projects.

6 We did end up looking at 285 unique
7 research projects, and out of those, about half, or
8 136, are reporting one or more of these outcomes
9 related to pain, depression, or anxiety, sleep, and
10 fatigue. Many of these report more than one
11 outcome.

12 I'm going to show you a little bit of the
13 descriptive statistics just so you get a sense of
14 these outcomes across our portfolio and also how
15 they are measured.

16 Going from Cycle 1 through spring 2015, 136
17 projects, you can see the most common of these
18 patient important outcomes reported was depression
19 or anxiety, and it was reported in 105 of the
20 projects. Pain was the next most common, and then a
21 few projects, 16 to 19, reported outcomes related to
22 fatigue and sleep.

1 As you would expect, the number that
2 reported these as primary outcomes was less than the
3 number that reported them as secondary outcomes, and
4 they are in about the same order of commonality as
5 you would also expect from just their overall
6 reporting.

7 We looked at what conditions they were in,
8 because patient important outcomes don't necessarily
9 just aggregate within single conditions. We counted
10 each project once, so if for example, a project was
11 looking at depression in cancer patients, if it was
12 coded as the primary condition being cancer, then
13 that is what was counted in this next series.

14 I'm also going to show you the measures
15 associated with each of these outcomes, just as
16 again an exploratory analysis, and as we look at the
17 word clouds for the measurement instruments that are
18 used, the larger the word cloud, the more commonly
19 it was reported. This is just exploratory to see
20 how commonly our awardees are using similar or
21 disparate measurement approaches for the same
22 outcomes.

1 This is really hard to read. I apologize
2 for that. The big ones are easier to read. You can
3 see from that the number of projects in the box, the
4 number and type of condition are in the box, and
5 that relates to the number of times the particular
6 outcome was mentioned in that type of project.

7 For 105 projects that reported on
8 depression or anxiety as an outcome, 20 of them were
9 in mental or behavioral health kinds of conditions,
10 which makes sense; 17 were in cancer conditions, and
11 the next most common was cardiovascular health, and
12 then neurological disorders.

13 You see there is a real array, so even in
14 infectious diseases, depression or anxiety could be
15 there or kidney diseases or other conditions, rare
16 diseases, skin diseases, et cetera.

17 This shows these are reported across a
18 number of different conditions with various
19 frequency, and in terms of the instruments that are
20 used, you can see that the PROMIS tools are used
21 probably the most commonly, but many of the common
22 instruments that were used through PHQ-9s and 8s,

1 there is a PHQ-4. From my systematic review
2 viewpoint, there are many of these that we would
3 have been able to figure out how to combine, but you
4 also see there is some diversity across these.

5 Next are the conditions with pain as an
6 outcome. In this case, the most common condition is
7 neurological disorders that has pain as an outcome,
8 followed by cancer and musculoskeletal disorders.
9 Those make good sense.

10 A number of rare diseases address pain and
11 then all the way across multiple conditions such as
12 allergies and immune disorders, infectious diseases,
13 et cetera. There is a range of conditions here as
14 well.

15 I think the interesting part about the
16 measurement tools is that the most common instance
17 is the project design tool, and the second is the
18 tool not specified, and down there a little bit
19 smaller are the SF-36 and 12 and the PROMIS tools,
20 and then a bunch of individual tools, some of which
21 might actually be the same if you looked at it a
22 little bit more closely.

1 This suggests we are not necessarily
2 getting pain measures that would be combinable
3 across the portfolio.

4 The next two are much less commonly
5 reported, issues around fatigue and sleep. There is
6 no scale between these. It looks it is very
7 prominent here, but this might have been two instead
8 of one. I couldn't get it to be scale across with
9 the denominators, so I apologize for that.
10 Similarly, a range of conditions with sleep, with
11 again a range of measures.

12 The bottom-line from this, it was an
13 interesting exercise. The SOC thought it was
14 interesting and thought you would like to see it as
15 well. What we concluded from it as an exploratory
16 exercise is that patient important outcomes are
17 commonly measured in the portfolio across different
18 types of conditions or disease category.

19 There are variable measurement approaches,
20 which could limit the synthesis of findings. For
21 some outcomes, the most common tool was either non-
22 specified or project defined, and it might be that

1 judicious use of core outcome sets could improve the
2 coherence of PCORI's research portfolio and even its
3 uptake if we focused on measures applicable to
4 clinical practice.

5 I am happy to report that Alicia is going
6 to be the discussant and she will entirely disagree
7 with the point, so it will be interesting. Thank
8 you.

9 DR. NORQUIST: All right, Alicia.

10 DR. WHITLOCK: Are there questions?
11 Barbara?

12 DR. McNEIL: I have two questions, and I
13 guess the first is probably for Gray. It strikes me
14 that having depression or anxiety in only 20 out of
15 the 105 mental health disorders, does that sound
16 right to you? It seems a little low to me.

17 DR. NORQUIST: Depression/anxiety out of?

18 DR. McNEIL: If you go back a few slides.

19 DR. NORQUIST: I have to see what you are
20 talking about.

21 DR. WHITLOCK: I know what you're talking
22 about. I know where you are going, I'll go back.

1 Right there.

2 DR. McNEIL: Depression or anxiety as an
3 outcome, 20 of them were mental health. Does that
4 make sense?

5 DR. WHITLOCK: That was their primary
6 condition, so remember I said some of these could
7 have been like in cardiovascular health, say you are
8 studying depression post-myocardial infarction, but
9 the primary condition might have been
10 cardiovascular, so this is partly how they are
11 cataloged.

12 DR. NORQUIST: Now, it makes sense. Allen,
13 do you have a question?

14 DR. DOUMA: Yes, could you explain the
15 rationale for combining depression and anxiety in
16 the same measure?

17 DR. WHITLOCK: I think that was actually
18 done by the E&A folks, but I think it was easier
19 because of the way the data are that you couldn't
20 really separate them out very well, so you look at
21 the variable definition, it is anxiety, depression,
22 mood, or well-being of the patient or caregiver.

1 It seemed to be the best way to use the
2 data in the way that they are currently coded.

3 DR. NORQUIST: Harlan?

4 DR. KRUMHOLZ: Thank you very much for
5 surveying the portfolio for these important
6 outcomes. I'm just going to go back, I feel
7 obligated to continue to bring up my issue, which is
8 how many of these studies are CER A versus B studies
9 that we have been able to do rapidly, the benefit of
10 providing people information about what works for
11 them?

12 I still believe that all of these kind of
13 outcomes, fatigue, depression, insomnia, pain, the
14 list goes on and on, we fail to know what is the
15 best combination of approaches are best for that
16 person.

17 I would hope again PCORI in its last three
18 years can find a way to do 100 studies that are
19 randomizing alternative strategies to try to give us
20 insight into which one of these strategies are best
21 for which individuals.

22 It is useful to know these are being

1 collected, but I don't think many of them are in A
2 versus B studies, the traditional CER that we are
3 trying to do, and I think that is what we were
4 really engaged to do at the inception.

5 I continue to think it is incredibly
6 important for us to sprint towards a day when we can
7 actually fund a wide range of these. I know we have
8 the pragmatic program but I am talking about
9 figuring out how we can become agile in moving
10 forward in these kinds of studies.

11 It may be useful to standardize some of the
12 outcomes for those domains, but even more
13 importantly, I hope we can find a way to do a whole
14 bunch of trials in this area with modest sample
15 sizes because there are continuous outcomes and
16 understand better what clusters of patients respond
17 to which treatments.

18 DR. WHITLOCK: Do you think PCORNet is a
19 good forum for those kinds of trials?

20 DR. KRUMHOLZ: Well, I think we invest a
21 lot in that platform, that is one, but I wouldn't
22 just necessarily restrict to that. I think it would

1 be great for us to hack this problem.

2 The question is how quickly can we generate
3 knowledge in these areas knowing these trials --
4 what I want to do is let them compete, let others
5 compete, see who can come up, let PCORI say we are
6 looking for people to do these trials for us, by the
7 time we are done -- we have heard from people that
8 these are important outcomes.

9 I think we need to look at what are
10 alternative strategies that are addressing these,
11 what are top selling pharmaceuticals that are being
12 used for these, for which the evidence is uncertain,
13 and is one better than another.

14 In all of these areas, we have a whole lot
15 of prescriptions being written to people and really
16 inadequate knowledge about which ones are best for
17 whom.

18 I think if we can contribute to that, that
19 would just be terrific, and I know I'm interested in
20 non-pharmacologic, too, but the pharmacologic is
21 what is costing a lot of money, and I think we need
22 to pay attention to that.

1 DR. NORQUIST: Alicia?

2 DR. FERNANDEZ: Let me make a few comments
3 very briefly which I think synergizes perhaps with
4 some of the things Harlan is saying. The first
5 thing I thought when I saw this on the SOC is it is
6 very interesting, and because the first thing to
7 note is that these outcomes are either
8 primary/secondary outcomes in about half of our
9 studies.

10 When we think about the fact that we are a
11 patient outcomes research institute, I don't know
12 what the right number should be, but thinking that
13 it should be around half, because mortality is also
14 of interest to patients, morbidity is also of
15 interest to patients, and lots of other outcomes,
16 but to have these in around half of the studies is
17 great.

18 I felt good about that, and we should
19 acknowledge that or if people think it should be a
20 higher or lower number, we should discuss that.

21 The second thing that I felt was
22 interesting was depression was the outcome, either

1 the primary or secondary outcome in 77 percent of
2 these. I also thought that was very good and
3 appropriate.

4 The WHO lists depression as the number one
5 in terms of robbing people of quality of life, and
6 in the United States, I think it is a toss up
7 between low back pain and depression, depending on
8 which institute you ask. It is hard to overestimate
9 the importance of depression, particularly as a co-
10 traveler with so many other illnesses, and I was
11 very glad to see the spread of illnesses.

12 That, Harlan, goes a little bit to your
13 remark because for example, if in cancer we have
14 treatment A, you know, oncology cocktail 1 versus
15 treatment B, oncology cocktail 2, depression may
16 very well be an appropriate outcome that should be
17 measured and that we are not actually looking
18 obviously at pharmaceutical treatment for
19 depression.

20 The third point I wanted to make was around
21 the metrics. When I looked at the metrics, I had
22 some concern, as I think probably all of us would,

1 around not defined, and I just think go back to it
2 wasn't very many.

3 I don't know exactly how many, but it
4 didn't seem to be very prominent, but again, I don't
5 understand how you could have a primary or secondary
6 outcome that is not defined that gets through merit
7 review, so I'm hoping that will be solved or I'm
8 hoping that represents small numbers.

9 DR. KRUMHOLZ: Does that mean that wasn't a
10 standardized -- for clarification, does that mean
11 there wasn't a standardized instrument?

12 DR. FERNANDEZ: It wasn't defined
13 apparently.

14 DR. WHITLOCK: These data come from the
15 research plan, so we also have to consider the data
16 source.

17 DR. FERNANDEZ: On the other hand, I was
18 very happy to see the instruments that were there,
19 and in particular I want to call out the use of the
20 PROMIS instruments. Some of you may be less
21 familiar with this.

22 This is a very large, very important NIH

1 initiative. It stands for Patient Reported Outcomes
2 Measurement Information System. It is a data bank
3 of items, and you can select them, and they have
4 been validated across not only different populations
5 of illnesses, but across the general population.
6 Many of them are available in as many as 40
7 languages.

8 What is the point of being happy that our
9 researchers are using them? It does allow us to do
10 standardization and systemization if we wanted to
11 across different illnesses, and also benchmark
12 against the general population.

13 All and all, I felt very content to see the
14 data that Evelyn and the team pulled together. We
15 have a small measure, I wouldn't even say
16 disagreement, but it has to do with how much should
17 we be investing in making everyone use the same,
18 going backward, and making everyone use the same
19 data outputs in terms to facilitate systematic
20 review.

21 I tend to think there are a lot of
22 opportunity costs associated with that, and I would

1 rather see us sort of continue with a very sharp eye
2 to make sure everyone is using obviously one of the
3 more popular measures.

4 Finally, picking up on what our specialty
5 colleagues said today about wanting us to maybe put
6 in some funding into psychometrics or into other
7 patient reported outcomes, I do think this is an
8 area where we can explore with NIH, because that
9 really is what PROMIS does.

10 Now, for example, I was just looking on
11 their Web site, they have PROMIS for GI diseases,
12 and it relates to GI symptoms. Perhaps there could
13 be a PROMIS respiratory, and someone can figure out
14 how to ask about breathlessness in a way that we are
15 confident around patients' answers.

16 That is it.

17 DR. NORQUIST: Thank you, Alicia. The only
18 thing I would say on the measures is also not just
19 with NIH but also with other organizations. In
20 psychiatry, we are very interested in measures being
21 used for depression. I think it is key that we
22 interface with all the relevant groups.

1 The reason the PHQ-9 is so high on that
2 particular one is that is the one the APA and others
3 are pushing right now.

4 DR. FERNANDEZ: That is the one what?

5 DR. NORQUIST: The APA, the PHQ-9 comes out
6 pretty high on that.

7 DR. FERNANDEZ: Right. For example, PHQ-9,
8 we actually use in clinical practice now. It has
9 gone from being a research tool only to a clinical
10 tool, whereas I don't believe PROMIS -- I don't know
11 that any of the PROMIS instruments are used in
12 clinical practice, they are too cumbersome.

13 DR. NORQUIST: Right.

14 DR. FERNANDEZ: You could certainly see why
15 one group would choose one versus the other. I'll
16 stop there. I think this was an encouraging
17 exercise.

18 DR. NORQUIST: Other comments? On the
19 phone? Francis?

20 DR. COLLINS: I appreciate the shout out
21 about PROMIS, which has been a work in progress now
22 for I think about 11 years at NIH, building off this

1 set of validated questions, which I think has turned
2 out to be really valuable for lots of clinical
3 research, but may not be perfect for things like
4 depression.

5 I guess the message I would take from this
6 is we do have a really serious interest in making
7 sure we can do comparisons across studies if
8 possible, so maybe what we don't want, unless we are
9 talking about a very specialized situation, is for
10 an investigator to start from scratch and come up
11 with an entirely new way of assessing patient
12 reported outcomes when there are already well
13 designed and well validated alternatives they could
14 use. If that message could reach sort of the next
15 round of reviews, that might be a good thing.

16 DR. NORQUIST: I think that is a very good
17 point. I think it should be clear, they shouldn't
18 be coming up with totally new things and they should
19 certainly make a rationale for why they picked the
20 measure they are picking also.

21 Other comments?

22 DR. WEISMAN: As just has been said,

1 validated instruments for patient reported outcomes,
2 how many do we believe are patient-centered patient
3 reported outcomes?

4 In other words, the outcomes that are being
5 measured are meaningful and understood by the people
6 being measured, whether they are the parents of
7 children and reflecting their concerns about their
8 children or adults who have diseases.

9 DR. FERNANDEZ: The instrument that I'm
10 most familiar with is the PHQ-9, mainly because we
11 use it in clinical practice as well as research. I
12 have certainly looked at the Spanish version and it
13 includes cognitive testing, and it includes other
14 measures to make sure people are answering them
15 appropriately, whether every patient identifies all
16 nine symptoms as related to what they would consider
17 their depression is certainly not the case.

18 The PHQ-9 and PROMIS tool may be certainly
19 the best depression inventory. These are
20 instruments that have been cognitively tested in
21 diverse populations.

22 DR. NORQUIST: They have been widely tested

1 both in various racial and ethnic groups and income
2 levels as well.

3 DR. WEISMAN: I'm not questioning that.
4 I'm questioning whether can they provide useful
5 information to the investigators and maybe
6 clinicians in some way, but are they only measuring
7 the things that matter most, that they measure
8 across demographic and other characteristics,
9 whether they are measuring what is important to the
10 patient.

11 DR. NORQUIST: In answer to your question,
12 particularly in depression, I think the sense of
13 depression is important to a person, and that is
14 what we are measuring. There are a variety of other
15 things that go along with that that may differ
16 across patients, and that is where other things come
17 in.

18 As psychiatrists, we use this as an
19 indicator of where we sit, but it is not the final
20 measure of when we make a determination and what we
21 are doing with the person and how improved they are.

22 Leah?

1 MS. HOLE-MARSHALL: I thought we had as a
2 methods standard that it was required that outcomes
3 be identified, so I don't know how we could get to a
4 tool not specified, especially, but even the project
5 design tool, we want validated instruments.

6 I agree with your general comments, Alicia,
7 that this was a great review and there is a lot of
8 good things here, but those ones pop up fairly
9 regularly, and it is concerning, somewhere in
10 between mandating you can only use one or two tools
11 to we have a guesstimate of this word cloud as 45
12 tools, and that doesn't account for each project
13 tool, you would have to add the numbers.

14 There is probably some happy medium in
15 there that we can continue to refine our PFAs or our
16 methodology standards to be more specific, given
17 that our tradeoffs are no one of these studies is
18 likely to change practice, so it has to be combined
19 in order to have power, and we are not going to be
20 able to do it if we are not moving in the direction
21 of more validated tools.

22 In addition to the combo issue is just if

1 it's not validated, what do we do with the results,
2 the tool itself is not validated.

3 DR. NORQUIST: I assume we are using
4 validated. Robin?

5 DR. NEWHOUSE: The discussion was going in
6 the direction of my comment, but yes, the
7 methodology standards do include the need for
8 psychometrics, and patients identifying the outcomes
9 that are most important to them.

10 I think the other thing that struck me was
11 on the pain measures, the incidence of project
12 design tools, particularly since a lot of our
13 discussion was around pain and pain management and
14 opioids, the importance of having a psychometrically
15 sound tool is incredible.

16 Of all the portfolio that you presented ,
17 it was the one that was most surprising to me, and
18 just wondering, we are not funding psychometric
19 studies, so there must be some criteria that would
20 require, because you didn't look at the methods, so
21 I would imagine they would be in that portfolio.

22 There would have to be some requirement

1 that the investigators report when they design their
2 own instrument so that we understand and can believe
3 there is reliability and validity.

4 DR. WHITLOCK: Of course, I wasn't here for
5 any of this, but what I would say is a couple of
6 things. These data come from the research plans.
7 They are not from the protocols. So, we have to
8 consider that before we make binding conclusions
9 about what is going on, I think this raises
10 questions, we would need to look at the research
11 protocols and be sure that the tools not specified
12 or the project design tools are indeed those.

13 You raised the exact point that I thought,
14 especially across pain, it seems like we ought to be
15 able to have -- that is an area if I was going to
16 work on one of these areas first, I would probably
17 start with that measure.

18 DR. NORQUIST: That one seems to be the one
19 with the most differences and one that is critical
20 particularly as we go forward looking at opioid use
21 and stuff.

22 DR. FERNANDEZ: I didn't necessarily

1 support going backward and asking people to sort of
2 redo their work, I do think for the studies that we
3 have going forward, it might be very helpful if we
4 could suggest that people use one or two measures or
5 whatever the right number is so we could actually
6 get some synergy across.

7 I also think this can be addressed in
8 multiple places, in the application process, not the
9 least of which is at merit review.

10 DR. NORQUIST: Andy?

11 DR. BINDMAN: Hi. First of all, this is
12 great to see this analysis, thank you for it. I was
13 just wondering what the mechanism was that you
14 anticipated being able to
15 -- to pick up on what you are saying, the notion of
16 why some of these things are going on, and what the
17 feedback loop is to us about why some investigators
18 may have made choices.

19 I think there is sort of an implicitness
20 that maybe people aren't choosing these valid
21 instruments because they don't know about them, but
22 I wonder if there are other barriers that are

1 preventing them.

2 I know in my own experience of supervising
3 trainees, sometimes they run into IRB challenges
4 with some of the tools. This is the issue that
5 sometimes comes up with the PHQ-9, with the suicide
6 question, and the ability to be able to do follow up
7 if patients respond to that or participants respond
8 to that, and need to have that in place.

9 I just wonder if there are other barriers
10 that are preventing the use of what looks valid
11 scientifically from being able to use some of these
12 patient reported outcome tools, and more
13 importantly, what feedback or mechanism we have to
14 be able to identify why maybe they are not being
15 used.

16 I fully endorse the notion of trying to
17 standardize it, but I want to make sure there isn't
18 some implementation problem that we are not
19 anticipating by just saying oh, they must have
20 missed the fact that there is a tool out there. My
21 guess is there is more to it than that.

22 DR. WHITLOCK: I think the other issue here

1 is there may be multiple outcomes per study, so for
2 example, if you look at some of the PFAs and things
3 that we put out, there is a lot of outcomes, both
4 primary and secondary. There may be multiple tools
5 per study. I don't have the ability to look at that
6 through these data. We didn't look at it that kind
7 of way.

8 I think it would be hard -- first of all,
9 we would have to confirm -- these are from research
10 plans. We would have to look at protocols as a
11 second round, as these are kind of hypothesis
12 generating, and it looks like people aren't using
13 validated tools.

14 Second, I think we would have to say across
15 projects, do they have one validated outcome, and
16 then they have a variety of other measures that are
17 perhaps not validated because they engaged a lot of
18 folks and got a range of outcomes. That would be a
19 second question.

20 I think we don't know, and third, is there
21 something that ought to be picked up earlier in the
22 process, merit review or is it the fact like you

1 were saying, is it because people don't know, do we
2 need to produce a list. I don't really know.

3 I think the first thing to know is do we
4 have a problem, and we would have to look a little
5 more closely at this to see how well the research
6 plan data are confirmed by protocols.

7 DR. NORQUIST: Other comments?

8 [No response.]

9 DR. NORQUIST: Many of these are linked
10 together. I see people with pain who have
11 depression, insomnia, anxiety. They all go
12 together. Thank you very much. Thank you, Alicia,
13 for looking over this.

14 As no one is present or waiting on the
15 line, we will not be initiating our public comment
16 period. We always welcome your feedback at
17 Info@PCORI.org or through our Web site at PCORI.org.
18 Not surprising because we have so many other avenues
19 now for input that we don't have this. Andy, in the
20 early days, we had people in the room and stuff, now
21 we have so many people online.

22 We are not going to wrap up just yet

1 because this is Steve Lipstein's last in-person
2 meeting with us. Unbelievable as that is.

3 [Applause.]

4 DR. NORQUIST: Also, Harlan Weisman, this
5 is his last, but he is not in person, I should say,
6 because Harlan is on the phone. We also want to
7 thank Harlan. Now, you don't get off the hook
8 either one of you because you still have a service
9 through September, and so you will get your
10 wonderful plaque and fake check and all that stuff
11 at that point.

12 I want to thank both of you. It's not real
13 because we don't have any money to give. Steve, in
14 particular, for those of you who are relatively new,
15 he and Jean basically almost in the basement, in
16 fact, out of their garage, started this thing,
17 handling extra large checks into Jean's bank
18 account. You never finished the story about who
19 actually paid the IRS. That is why he went to North
20 Carolina. No.

21 We better be quiet or we really are going
22 to get in trouble. Anyway, for those of you who are

1 going to join us for dinner, we will be having a
2 celebration. Harlan, we will have to celebrate you,
3 maybe we will record it or something.

4 Thank you, Steve, very much. We have
5 really appreciated your service, and Harlan, too,
6 your service.

7 Let me close by thanking those who joined
8 us today, both in person and via webinar and
9 teleconference, and a reminder, all materials are
10 available on our Web site. Our webinar was recorded
11 and will be probably posted by the end of the week,
12 and we always welcome your feedback on our Web site
13 or at Info@PCORI.org.

14 Thanks, and good evening to everybody.
15 Thanks.

16 [Whereupon, at 5:24 p.m., the meeting was
17 adjourned.]

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