

PATIENT-CENTERED OUTCOMES RESEARCH INSTITUTE

BOARD OF GOVERNORS MEETING

Monday, April 30, 2018

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Washington, DC 20036

[Transcribed from PCORI teleconference.]

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APPEARANCES:

BOARD OF GOVERNORS

Debra Barksdale, PhD, RN
Kerry Barnett, JD [Vice Chairperson]
Lawrence Becker
Francis Chesley, Jr., MD [For Gopal Khanna]
Francis Collins, MD, PhD
Allen Douma, MD [via telephone]
Alicia Fernandez, MD
Christine Goertz, DC, PhD
Leah Hole-Marshall, JD
Russell Howerton, MD
Gail Hunt
Harlan Krumholz, MD, SM
Richard E. Kuntz, MD, MSc
Sharon Levine, MD
Freda Lewis-Hall, MD
Barbara McNeil, MD, PhD
Grayson Norquist, MD, MSPH [Chairperson]
Ellen Sigal, PhD
Kathleen Troeger, MPH
Robert Zwolak, MD, PhD

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P R O C E E D I N G S

[10:15 a.m.]

1
2
3 CHAIRMAN NORQUIST: All board members are
4 present, with the following exceptions: Debra
5 Barksdale, Richard Kuntz, Sharon Levine, and Freda
6 Lewis-Hall, who were not able to join us. And Allen
7 Douma is joining us by telephone today.

8 I want to remind everyone, disclosures of
9 conflicts of interest for members of the board are
10 publicly available on our website and are
11 regulatorily updated. Members of the Bod of
12 Governors are reminded to update your conflict of
13 interest disclosures if the information has changed.
14 You can do this by contacting your staff
15 representative.

16 If the board will deliberate or take
17 actions on a matter that presents a conflict of
18 interest for you, please let me know at the time so
19 we can discuss how to address this. If you have
20 questions about conflict of interest disclosures or
21 recusals relating to you or others, please contact
22 your staff representative.

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1 All materials presented to the board for
2 consideration today will be available during the
3 webinar and then posted on our website. The webinar
4 is being recorded, and the archive will also be
5 posted within a day or so.

6 We have a scheduled public comment period
7 today from 5:15 to 5:45 p.m. Eastern Daylight time.
8 If you are interested in registering to provide
9 public comment, please visit our event page for
10 instructions. Or you can always email us at
11 info@PCORI.org, or provide input through our
12 website.

13 Finally, a reminder: We're live-Tweeting
14 today's activities on Twitter, and you can join the
15 conversation with @PCORI.

16 So I think, Joe, unless you want to make
17 comments now, we'll go ahead and do the first item
18 on the minutes?

19 DR. SELBY: Yes.

20 CHAIRMAN NORQUIST: Okay. So we'll get the
21 next slide. Before I do that, I just want to check.
22 Allen, are you on the phone?

1 [No response.]

2 CHAIRMAN NORQUIST: Okay. So I guess Allen
3 is not on yet. When he comes on -- oh, I have the
4 control. There we go. Okay. That's just the
5 agenda.

6 Okay. So the first item is approval of the
7 minutes from our March 20th board meeting. So I
8 need a motion.

9 DR. ZWOLAK: So move.

10 CHAIRMAN NORQUIST: Yes, Bob Zwolak.

11 DR. HOWERTON: Second.

12 CHAIRMAN NORQUIST: And then second,
13 Russell. Okay. So is there any discussion or any
14 changes to the minute at this point?

15 [No response.]

16 CHAIRMAN NORQUIST: Okay. If not, I just
17 need a voice vote. All those in favor, aye.

18 [Ayes.]

19 CHAIRMAN NORQUIST: Anybody opposed?

20 [No response.]

21 CHAIRMAN NORQUIST: And anybody abstaining?

22 [No response.]

1 CHAIRMAN NORQUIST: Okay. So let's see.
2 Joe, I think it's time for you to give us an
3 executive director's report.

4 DR. SELBY: Okay. Thank you, Gray. Good
5 morning, everyone. I'll be relatively brief today;
6 just a few items. We have an action-packed agenda
7 with a lot of approvals and adoptions.

8 But there are a few pieces of news that I
9 wanted to share. And the first one is, as some of
10 you have already heard, the long-awaited GAO report
11 of 2017/2018 that was mandated by Congress is now
12 complete and is published. And the good news, the
13 really very good news, is that it was a very
14 straightforward publication with no recommendations,
15 no deficiencies cited, no recommendations for
16 improvements.

17 These are just three quotes that we were
18 happy to see in the report, that we have done what
19 we said we were to do, which was to primarily commit
20 our funds for research and data capacity-building
21 efforts; and that awards for dissemination and
22 implementation of findings were, and particularly in

1 2017, still quite limited, as most research was
2 still underway. As you all know, awards for
3 dissemination are on the increase now, and
4 implementation are on the increase, as our results
5 mount. But this was very accurate for the time,
6 which was through 2017, that they reported on.

7 The second was that they interviewed a
8 number of stakeholder organizations, and this is a
9 comment specifically about PCORnet, that a majority
10 of stakeholders -- or that the stakeholders
11 generally agreed that PCORnet does offer value by
12 improving the data available to conduct comparative
13 effectiveness research.

14 And the last one was something that we have
15 been saying ourselves since 2012. But it was good
16 to see them say explicitly and of their own accord
17 that PCORI research awards have increasingly focused
18 on conditions that impose a substantial health or
19 financial burden on patients in the healthcare
20 system.

21 So this is a stepping stone, something that
22 was mandated on the way to consideration of

1 reauthorization. And this has passed, and the good
2 news is that we did very well in the report, and
3 move on to other aspects of the reauthorization
4 discussion.

5 At your table, I think -- let's just see.
6 It made it. Okay. This is a new communication that
7 I would recommend. It can also be found on our
8 website. You can download it and print out as many
9 copies as you wish. But this was a suggestion that
10 came from a stakeholder friend of PCORI's. She
11 said, "Do you have anything that talks about PCORI's
12 greatest hits?"

13 So this is PCORI's greatest hits, volume 1,
14 and it's brief summaries, with links, to 11 studies,
15 11 CER studies, published CER results, which I
16 think, taken as a whole, really give anyone that
17 you'd hand it to a sense of the kind of research
18 PCORI does.

19 Now, I will say that these are all the
20 product of the early more or less investigator-
21 initiated, investigators with patients-initiated,
22 broad awards, so smaller studies. But there are

1 some very impressive findings, the kind we hope and
2 expect there will be many more of. And they make
3 the case that this type of research does very often
4 point to ways to improve the quality of care.

5 And not infrequently, it points at the same
6 time to ways that can lead to reductions in the cost
7 of care. So even though these are not yet our
8 larger targeted or more focused awards, simply
9 putting patients and their interests, physicians and
10 their interests, into the mix of the research
11 questions asked and studied, begins to give you a
12 principle of research that's distinctive and that I
13 think we can all be quite proud of.

14 So as I said, go to the website and
15 download as many copies as you'd like, and hand them
16 out if you're giving a talk or otherwise talking to
17 people interested in PCORI.

18 So the next topic, and again this will be
19 relatively brief, but I want to tell you that we are
20 moving ahead with parts of the strategic plan update
21 that we discussed in February and again in March at
22 our board meeting in March.

1 And this is the proposal to address
2 stakeholder needs in relation to new therapeutics
3 and new technologies. So PCORI recognizes, and we
4 have actually been criticized, for not being more
5 active in the area of new therapeutics or new
6 technologies.

7 Not only do they arrive on the scene
8 without a lot of evidence, but oftentimes they are
9 high-cost interventions as well. So for a lot of
10 reasons, patients and physicians, delivery systems,
11 and health plans have questions about these. And
12 the criticism was that we were not jumping on these
13 as quickly as we should.

14 And we don't actually disagree entirely
15 with that. We've encountered real barriers to
16 launching studies of new technologies immediately.
17 And we've also encountered the fact that CER studies
18 take years to complete, even if you would start them
19 the day that a new product was approved.

20 So the logic here is that there must -- if
21 we're going to do something, it won't only be
22 launching new five-year studies. And so this is the

1 first part of that, which is establishing a Horizon
2 Scanning program.

3 Now, Horizon Scanning is something that has
4 been done in the U.S. previously but is not
5 currently being done and freely available to the
6 public. So we are committing to launching, to
7 identifying, a vendor to conduct Horizon Scanning to
8 market new technologies and therapeutics in
9 healthcare before -- in the years before they're
10 approved.

11 This kind of Horizon Scanning is -- our
12 payers stakeholders, patients, clinicians, tell us
13 that it's very valuable because it helps them
14 anticipate new questions that they're going to have
15 to address, new policies they're going to have to
16 set.

17 Building a framework for Horizon Scanning
18 requires working with all stakeholders to decide on
19 how one identifies those technologies and
20 therapeutics that have the highest potential for
21 impact, both on outcomes and costs of care, early on
22 and focusing on them. And Horizon Scanning is also

1 a part of a topic-generation process, which we also
2 want to revitalize as part of our strategic plan
3 update. So one of the things Horizon Scanning does
4 is points us early on to research questions that
5 indeed we could launch studies of.

6 In addition to the Horizon Scanning, we
7 want to link the findings from the scans to other
8 information that is available on emerging
9 therapeutics and technologies. So we are beginning
10 to generate new products that can provide
11 information, timely information, for patients,
12 clinicians, and payers in lieu of completed
13 comparative effectiveness research studies.

14 So certainly not a substitute. But reports
15 that include topic briefs, evidence mapping, and
16 more in-depth evidence synthesis when there is
17 enough evidence to synthesize are a part of what
18 PCORI can bring to decision-makers. This is pre-
19 research type of summaries, but they are intended to
20 meet, as well as one can at this time, the
21 information needs, and also to point to ways toward
22 more definitive research.

1 We are vetting the content of this with
2 stakeholders. We have an upcoming meeting with
3 payers in July where we will go through the proposed
4 packet. We'll focus on particularly drawing out
5 patient-centered outcomes that may have been either
6 -- there may be evidence on them or they may have
7 been overlooked, and it's important to point out
8 that they've been overlooked -- disruptions in care,
9 redundant care, and comparisons that are going to
10 need to be addressed in order to accurately measure
11 value.

12 The desire to measure value is there on day
13 one. The evidence to measure it accurately may not
14 be, also, to point out any ongoing studies that
15 stakeholders need to be aware of, including the
16 patients populations that are being studied and the
17 settings where they're being studied.

18 We think that by tying these products
19 together and tying them to future research
20 priorities as well enhances the value to decision-
21 makers and builds the pressure for the kind of
22 research that PCORI can fund and generate.

1 So next steps in this area: We have
2 already been generating evidence updates on topics
3 that we may have done studies of or where we
4 recognize that there's a need for an updated
5 systemic review.

6 So the next evidence update coming out is
7 one on treatments for PTSD. We are currently
8 developing our very first briefs on new and emerging
9 technologies, and one is on CRISPR technologies and
10 one is on CAR-T. And these are expected in six
11 months.

12 The Horizon Scanning program will be
13 awarded by the end of 2018. We are working and will
14 be back with you to discuss further ways that we can
15 revitalize our topic in research question generation
16 and priority-setting and refinement, starting with
17 Horizon Scanning.

18 And the last is that we've held
19 consultations with patients and clinicians in
20 January and February of this year, also with payers
21 during that interval. And in June and July, we will
22 be back with patients and payers again to discuss

1 what's most valuable in these kinds of packets and
2 summaries of evidence around new therapies, new
3 technologies.

4 CHAIRMAN NORQUIST: Hang on a minute, Joe.
5 I think Ellen wants to ask you on this last --

6 DR. SIGAL: Well, I have about 3,000
7 questions, which we don't have time for. But I'm a
8 little confused about this on intent on Horizon
9 Scanning and exactly what you mean. So it's CAR-T.
10 We now have two FDA-approved therapies on it. We
11 have now the CMS new genomic, with the foundation
12 medicine. And we have a tremendous amount going on
13 in the field.

14 But we don't have a lot of these LDTs and a
15 lot of these tests that are not validated or not
16 FDA-approved. A lot of discussion on whether they
17 should be or not and whether they're measuring the
18 right thing. And just as an example, we did a
19 survey on two FDA-approved tests for ALK and for
20 EGFR, where there are two FDA-approved tests. And
21 what we found, the good news is that patients were
22 being tested. The bad news is 70 percent were not

1 using that test.

2 So when you talk about does that mean the
3 other tests are good or bad, I don't know. But most
4 of these platforms are not -- they're not CAP or
5 CLIA. So we need a little bit more specificity on
6 exactly what you're trying to get at on this because
7 there's great confusion, and frankly, great debate
8 in the community on what needs to be done.

9 And if you go to -- there's no cancer
10 patient today that will even to a clinic that won't
11 be tested. But are these tests good? Are they not?
12 Are they validated? When you're making clinical
13 decisions, that's a big deal. So I just don't
14 understand the department of exactly what the
15 Horizon Scanning means and what we're going to do
16 with it and what the criteria would be.

17 DR. SELBY: Right. Well, I think, as you
18 say, because CAR-T and CRISPR are already here, so
19 to speak, Horizon Scanning may be less accurate than
20 the topic summaries, the summary briefs, and other
21 syntheses of any kind of evidence.

22 Those two topics came to us in

1 conversations with stakeholder groups. So that's
2 how we got to them. They are brand new. Not a lot
3 if known about them except that they are
4 transformative and costly. And so that's how we got
5 to them.

6 You make an excellent point, Ellen. And I
7 know you think about this a lot. And that is,
8 there's a huge dearth of evidence about the
9 diagnostic testing that goes with newer targeted,
10 often, therapies. And that may be an excellent
11 third topic for one of these summaries.

12 And my question is always: What kind of a
13 study could help here? Is there a comparative
14 effectiveness question at this point that could be
15 asked around diagnostic testing? Because I know
16 that it is a problem for clinicians and payers and
17 patients.

18 DR. SIGAL: Again, there isn't enough time
19 to go into all of this now. And there is a lot we
20 can and I believe we should do. With my
21 conversations with CMS, they talked about patient-
22 informed decision-making on it because patients

1 assume every test they have is valid.

2 But specifically with CAR-T, you have ICER
3 and other people that have done a lot of work on
4 this. It's early, so there may be other things we
5 can look at that perhaps are in the clinic today
6 that aren't -- that is not so easy, and criteria
7 that patients should use what we should use.

8 So this is a big, big topic. And I agree
9 it's really important. But there is chaos and not a
10 whole lot of agreement in the community on exactly
11 how this goes forward. And payers are confused as
12 well.

13 DR. SELBY: My hunch is that as we produce
14 the first ones, people are going to appreciate that
15 there are, as you say, lots of other questions where
16 they would be useful as well.

17 And it's something we did not think of so
18 much in the early days of PCORI: What can PCORI do
19 other than launch CER studies? We're now thinking
20 of it on a daily basis, and I think the answer is,
21 there's a lot.

22 And you mentioned ICER and others who would

1 do value assessments or cost effectiveness
2 assessments. We obviously don't do that. But we
3 can help be very clear about where the evidence gaps
4 are that those who do cost effectiveness assessments
5 actually need before they can do them accurately.

6 CHAIRMAN NORQUIST: Barbara?

7 DR. McNEIL: Joe, thanks. I think this is
8 a great idea. I wonder if, to get around something
9 Ellen mentioned, I wonder if you could potentially
10 reformulate what you said in the following way and
11 say something like, "PCORI is interested in knowing
12 what people are thinking about that's going to hit
13 the screens in 18 months or 24 months." And that's
14 clearly not CAR-T. That's here already. So there
15 are a bunch of things that -- you'd have to really
16 do a lot of looking to find them.

17 And then the second would be, of the things
18 that we know about that are on the front page of the
19 Times or the Wall Street Journal, what can we do?
20 And this gets at some of the genetic abnormalities
21 and their potential translations into diagnostic
22 tests. Which of those can we actually study?

1 So it's really a two-pronged issue. It's
2 what do people develop in the lab that's going to
3 hit us in six months? And then given the things
4 that are here that don't have enough data, what can
5 we do to study them?

6 I think if we were to put on a newsletter
7 emerging technologies, wow, CAR-T, people would say,
8 "We've known about that for a year." And it
9 wouldn't be quite as dramatic as saying, "That's
10 been around. We're going to try and do something
11 about it."

12 CHAIRMAN NORQUIST: Kerry?

13 MR. BARNETT: Yeah. I'd just like to take
14 -- and first of all, thank you, Joe. And I want to
15 just take this in a potentially little different
16 direction, which is that I believe what's needed is
17 an organization that funds the validation and
18 evaluation of new products that are being pushed to
19 the public.

20 So we're in a DIY approach now to the way
21 in which things are going to be done, and it's
22 growing quickly. And there's a lot of decision

1 support, testing, a whole range of things that are
2 being done for the public, where there's a lot of
3 uncertainty about the quality of the studies. It's
4 a comparative effectiveness of sorts, but it really
5 is an investigation as to what people can trust,
6 whether the information's actionable.

7 And the FDA is beginning to focus a bit on
8 digital health products. But on the consumer side,
9 if it's just providing information, it's falling
10 outside of a lot of the scope that's being defined.
11 And the question really is, with many of the
12 emerging technologies that are being targeted for
13 consumers, whether that's -- anything from genetic
14 analysis to any sort of decision support,
15 particularly -- whether it falls inside or outside
16 of the FDA. The question is, what's the value for
17 individuals? How could it be used?

18 I think that's a really ripe area for us.
19 We've so far been focusing on how we provide
20 evidence that clinicians would work with patients to
21 help use in order to guide decision-making. But
22 increasingly, people are being marketed directly

1 with a wide range of products.

2 And for us, that might be a very
3 interesting place to go, to provide comparative
4 effectiveness information, and to help consumers be
5 able to make choices about these options
6 increasingly available to them.

7 DR. SELBY: Right. And some of them are an
8 order of magnitude more complicated, probably, than
9 things before, like this notion of genetic testing
10 of tumors and the fact that not all labs are the
11 same. That was a tough question to talk about how
12 you would communicate to patients and clinicians.
13 But thank you.

14 Yes, I think you guys are seeing it the way
15 we do, that there's a lot of information as new
16 technologies become available. Whether for an
17 individual patient this makes sense is still an open
18 question. A lot of these technologies have had
19 relatively little clinical vetting before their
20 approval. So a lot of room for the kind of real
21 world or post-approval research that we fund.

22 Okay. Thanks. So the last topic, I think,

1 for this morning is something that I really -- I
2 want you to be aware of. I want everyone to be
3 aware of this because it's quite interesting.

4 We, in our efforts to evaluate PCORI's
5 research portfolio and our impact, several of you --
6 I'm thinking of particularly Bob and I think Gail,
7 too -- have been involved in our evaluation work
8 over the years, and Michael Lauer, nodding his head,
9 as well.

10 And we've always known that to a certain
11 extent, you cannot really evaluate PCORI's products
12 thorough unless you have a comparator. Since we do
13 what we do for everything, we don't randomize
14 engagement. We don't randomize patient
15 centeredness. We don't randomize the type of
16 reviews we have. We don't randomize the
17 requirements to have stakeholders on the research
18 team.

19 So in the last six to nine months, our
20 evaluation and analysis department, in collaboration
21 with our Evaluation Committee that includes those
22 board members, has refined the idea that indeed we

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1 could do a comparison. And the logical comparison,
2 the one and only logical comparison, in the U.S. is
3 to the NIH and to their portfolio, in part because
4 the NIH is very transparent about their research
5 portfolio.

6 So we can gather data on their research
7 portfolio that's very comparable to the data we have
8 on our own. We can gather some elements of data
9 from sources like ClinicalTrials.gov, where we can
10 actually gather information on our portfolio and
11 theirs from the very first source.

12 NIH, obviously their main mission is not to
13 conduct comparative effectiveness research, but they
14 certainly do fund comparative effectiveness
15 research. They tag it as comparative effectiveness
16 research. And we can look at it and evaluate
17 whether to include it or not in a comparison with
18 our portfolio.

19 So I want to say, in addition to commenting
20 on the transparency of NIH, just to say that Mike
21 has been very helpful in helping us think through
22 this comparison, and Francis is aware of it and very

1 supportive of it, supportive of these kinds of
2 comparisons in general and of this one in
3 particular.

4 So our E&A department has laid out an
5 evaluation strategy where we will compare the
6 comparative effectiveness research studies we've
7 funded with those that are funded by the NIH. And
8 there are four levels of the comparison.

9 The first level is just the portfolio
10 characteristics, the types of interventions, the
11 conditions that are studied, the outcomes that are
12 measures. You can imagine that these could easily
13 differ between the NIH and PCORI.

14 And not to say that the findings in one
15 group are "better" than in the other group, but they
16 very likely will be different, and this will be of
17 great interest -- whether we are proportionally
18 studying different conditions using different
19 interventions, selecting different or different
20 numbers of outcomes, all important.

21 The second is also descriptive, and that is
22 of the principal investigators and their

1 institutions and the characteristics of those. So
2 the disciplines, clinical versus PhD disciplines,
3 the specialties; the years of experience out of
4 graduate school; the institutions, whether they are
5 academic centers or private research entities, or
6 other sites, is a second type of descriptive
7 comparison.

8 The third gets to issues of study
9 efficiency. And this is recruitment rates,
10 retention rates, and the need to change the primary
11 completion date, whether the study ultimately
12 reached the sample size that it stated on
13 ClinicalTrials.gov that it was aiming for.

14 And the fourth would be beginning to look
15 at the impact of the studies using altmetrics, which
16 you're increasingly familiar with, as am I, and in
17 more typical citations, bibliometrics, a little bit
18 later on.

19 So I'm not going to go into this or belabor
20 it. But E&A has developed pretty extensive
21 inclusion criteria, both for our studies and for
22 those that matched NIH. And my understanding is

1 that we have upwards of 300 studies in each bin.
2 And they are studies from 2013 through 2016, so they
3 will have information today about all the
4 descriptive information. And soon they will have
5 investigation about the success of recruitment as
6 well.

7 MS. HOLE-MARSHALL: Joe?

8 DR. SELBY: Yes, Leah?

9 MS. HOLE-MARSHALL: In terms of what you're
10 comparing for the portfolio, it would be
11 interesting, at least from my perspective, to
12 understand the study design or rigor to what methods
13 were used for it as well.

14 DR. SELBY: Yes. Do you mean, for example
15 -- so we will certainly have study design. Are you
16 thinking about, for example did they adhere to
17 methodology standards? That's an interesting one,
18 and I have heard it mentioned before. I can't say
19 with certainty whether it's doable. It sounds like
20 to review 400 projects from NIH would be
21 challenging.

22 MS. HOLE-MARSHALL: There might just be a

1 couple of standards that the Methodology Committee
2 could recommend --

3 DR. SELBY: That's a very good through.

4 MS. HOLE-MARSHALL: -- or a criteria that
5 would be a proxy for some of that.

6 CHAIRMAN NORQUIST: Yeah. Like ones that
7 may not be commonly followed or something? I mean,
8 Robin, I guess your group could think about that.
9 That's probably not a bad idea.

10 CHAIRMAN NORQUIST: Barbara?

11 DR. McNEIL: So I guess Mike could answer
12 this better. So Joe, you said you have 300 common
13 studies in each category. So would that mean that
14 there are 300 randomized trials in our group and 300
15 randomized trials in the NIH group?

16 DR. SELBY: They aren't all randomized
17 trials, Barbara.

18 DR. McNEIL: So are they matched? That's
19 what I thought was just being asked because it would
20 be hard to compare an observational trial with a
21 randomized trial.

22 DR. SELBY: We may have to do some of the

1 analyses in strata of just the --

2 DR. McNEIL: Okay. That's what I was
3 asking.

4 DR. SELBY: -- just the trials. I agree.
5 Certainly things like recruitment won't be real
6 relevant in secondary data analysis. And some of
7 ours are, and I imagine some of NIH's are, too.

8 Okay. So these are just some of the
9 characteristics that we will take a look at. I
10 won't belabor it.

11 So that's the report, and now we go to the
12 rest of the day's agenda. We have -- almost every
13 item is either an approval or an adoption item. We
14 have a new -- consistent with where we are in our
15 history, it's really time to focus more attention on
16 dissemination and implementation, and Jean's going
17 to present a proposal for that.

18 Robin's going to give her report, and great
19 news that we have a set of new standards for
20 adoption. They've been through the public comment
21 period, revised, and ready for adoption.

22 We have a visit by two large patient

1 stakeholder organizations, the National Multiple
2 Sclerosis Society and the Michael J. Fox Foundation,
3 for lunch in the 1:00 hour.

4 We then have, from Evelyn and the Selection
5 Committee, pragmatic clinical studies and targeted
6 awards. We have a new targeted PFA development for
7 your approval related to psychosocial interventions
8 in office-based medication-assisted treatment.

9 And then we have a substantial update on
10 PCORnet, and including, at the end of that, approval
11 of some limited competition studies that were
12 conducted within PCORnet called PaCR awards. So a
13 full day with decisions at every turn.

14 And now I want to take a minute -- there's
15 Evelyn behind me. The lady pictured here is Dr.
16 Evelyn Whitlock, who announced to us and to the
17 board close to a month ago now that in June she will
18 be stepping down as the chief science officer.
19 She's been in that role for well over two years, and
20 I think by all accounts has really helped to
21 transform many of the ways for the good, many of the
22 ways that we develop our funding announcements and

1 manage our portfolio.

2 So Evelyn just brought a world of
3 expertise. She brought passion. She brought real
4 skills, I think, at building consensus on the
5 committees that she helped to lead and staff,
6 namely, the SOC Committee, the Selection Committee,
7 and the Methodology Committee.

8 We've learned a lot from her. I'm very
9 hopeful that we will find ways to keep working with
10 Evelyn and so that we can continue learning a lot
11 from her. She started a lot of new activities which
12 I think are really right at the heart of what
13 patient-centered care is about.

14 And those include the notions of -- I'll
15 use this term, having been advised that the
16 Methodology Committee doesn't recommend it; I use it
17 -- but predictive analytics, how you push data to
18 give more information for individual patients, how
19 you bring studies together to do IPD meta-analysis
20 with the same goal?

21 So we hope to continue working with Evelyn.
22 But I just want to say personally to Evelyn how much

1 I've enjoyed the chance to work with her and how
2 much I've appreciated and how much I've learned from
3 her. And I suspect a few others on the board may
4 have comments in that vein as well.

5 CHAIRMAN NORQUIST: Yeah. Let me just --
6 [Applause.]

7 CHAIRMAN NORQUIST: Yeah. Evelyn, I think
8 Joe has said a lot, and I want to say also our
9 thanks, particularly from the board, for all the
10 great work you've done. And I do hope that there
11 will be some opportunity to continue some of that,
12 yeah. I know you're looking forward to probably
13 being back on a different coast than on the East
14 Coast, and a better climate, perhaps. All right.
15 Thanks.

16 Bob?

17 DR. ZWOLAK: I can't let this opportunity
18 go by. On behalf of the Science Oversight
19 Committee, I simply want to say that Evelyn was an
20 enormous breath of creative fresh air. She helped
21 us organize our thoughts. She helped us move
22 forward. She introduced new concepts of scientific

1 endeavor. And it's been a fabulous two years, and
2 we will miss you immensely.

3 CHAIRMAN NORQUIST: And Christine and then
4 Robin.

5 DR. GOERTZ: Thank you. I also wanted to
6 thank you, Evelyn, for the tremendous amount of work
7 you did with the Selection Committee. It is a
8 daunting task to be making recommendations to the
9 board about the awards that we fund, and your work
10 in helping us develop, better develop, our processes
11 and to streamline and bring a greater level of
12 consistency to the presentations, and just -- I
13 can't even begin to describe the difference that you
14 made in our ability to thoughtfully consider all
15 grants presented before us and to make sure that
16 we're making the appropriate recommendations to the
17 board.

18 So thank you so much. And we will miss you
19 a great deal, and I personally will miss you also.

20 MS. NEWHOUSE: Yeah. I would just say
21 Evelyn has the ability to be able to take some very
22 complex issues and narrow them down and understand

1 what the PCORI role is. And we really enjoyed the
2 way we've been linked to some of the PCORI
3 priorities through Evelyn.

4 And she really has depth in methods
5 expertise, so she's really helped us to think
6 innovatively, to advance our thinking, and we've
7 already started to think about ways that we can
8 understand the portfolio and advance methods.

9 And she's just been a wonderful partner
10 with the Methodology Committee, and we're going to
11 miss her desperately.

12 CHAIRMAN NORQUIST: And I think we'll be
13 hearing from Evelyn this afternoon on a number of
14 other issues.

15 So Joe, anything else?

16 DR. SELBY: Yes. Yeah, we will be hearing
17 from Evelyn, some of the final products, I guess, of
18 the work she's done with the SOC and Selection
19 Committee. And for those of us who go to dinner
20 tonight, we will save some of the more humorous
21 comments for then.

22 Let's see here.

1 CHAIRMAN NORQUIST: Is that it?

2 DR. SELBY: That is it for me, Gray. Back
3 to you.

4 CHAIRMAN NORQUIST: So let me just check
5 before we move on. I think Allen Douma was going to
6 join us by phone. Allen, are you on?

7 [No response.]

8 CHAIRMAN NORQUIST: Okay. And then I also
9 see that Steve Goodman may join us by phone. Steve?

10 [No response.]

11 CHAIRMAN NORQUIST: Okay. Maybe it's still
12 too early for them.

13 Okay. So the next item on our agenda --
14 we're a little bit ahead, but maybe we'll have --
15 always good to be a little bit ahead -- is this
16 proposal for an implementation funding proposal.
17 Larry, you and Jean were going to present this. I
18 don't know what order.

19 MR. BECKER: Yeah. Thank you. So I'm
20 pleased to represent EDIC, the Engagement,
21 Dissemination, and Implementation Committee, and
22 Deborah, who is both physically and mentally

1 exhausted because she has a house full of guests
2 this weekend; her daughter got married. So that's
3 why she's not here. I guess that's an okay excuse.
4 Right?

5 Okay. So the EDIC --

6 SPEAKER: [Off microphone.]

7 [Laughter.]

8 MR. BECKER: Well. So the EDIC has
9 approved a new implementation PCORI funding
10 announcement to go forward for the full board
11 approval. And as you know, PCORI is entering a
12 really exciting time. We've worked now for the last
13 eight years on our investments into research, and
14 we're producing lots of results, and there's
15 starting to be a cascade, a tidal wave, hopefully,
16 that can help realize our mandate to assist
17 patients, clinicians, purchasers, policy-makers, in
18 making informed health decisions.

19 So Jean's going to talk about in a minute
20 the innovative. What she is going to talk about is
21 targeted to implementation of PCORI's most major
22 research findings, and is meant to coincide with the

1 release of those findings from the targeted studies,
2 the pragmatic studies, and groups of studies on
3 related topics and questions, so that we can
4 actually see that these things come to fruition.

5 So the EDIC met a few weeks back, and we're
6 really enthusiastic and excited about this
7 opportunity. And I'll just turn it over to Jean and
8 fill you in on the details. Thanks, Jean.

9 MS. SLUTSKY: Thank you. Good morning,
10 everyone. I'm bound to screw this up, so -- ah,
11 okay. So far so good.

12 So I won't read you this. You've seen this
13 slide a million times, as has the public, which
14 speaks to PCORI's mandate and our mandate for
15 dissemination of research findings along with AHRQ.

16 And so this proposed funding announcement
17 is really intended to heighten awareness of the
18 results of PCORI-funded research and advancing
19 efforts to put these findings into practice as well
20 as improving healthcare delivery and health
21 outcomes. And this is consistent with the
22 dissemination and implementation program within

1 PCORI.

2 And just as a reminder, PCORI has three
3 streams of dissemination and implementation
4 activities from evidence from our research. The
5 first, that you approved a while back, is the
6 limited competition, implementation of PCORI-funded
7 results. And this is really an initial step to get
8 our research into practice. These are relatively
9 small awards. They're also tied to the submission
10 of a draft final research report as they go into our
11 peer review process, which is mandated in our
12 authorizing legislation.

13 The budget for this is about 9 million
14 total funding in any given year. Up till now we've
15 made about \$6.1 million total investments, and we've
16 completed five limited competition funding cycles
17 and funded 12 projects in 21 states. Remarkably,
18 these awards are split almost equally amongst all
19 the portfolios, the research portfolios, including
20 methodology, in PCORI's funding portfolio.

21 The second was actually approved by the
22 board a little less than a year ago, which is a

1 targeted funding announcement for implementation of
2 effective shared decision-making approaches. As you
3 know, PCORI has a very large portfolio of shared
4 decision-making tools. There's much less evidence
5 and work done on the implementation of shared
6 decision-making within the flow of clinical care.

7 And so this activity is intended to promote
8 the implementation and systemic update of shared
9 decision-making in practice settings. And these can
10 be those that are previously studied at PCORI, or
11 existing effective shared decision-making strategies
12 that are not PCORI-funded. And that was something
13 that you all were very adamant about, that this be
14 an open competition.

15 And then the third component of our
16 dissemination activities are the Gene Washington
17 Engagement Awards. And these are really targeted
18 toward organizations and communities that can
19 propose meaningful documentation projects to spread
20 awareness and increase knowledge or new evidence.

21 It's really intended to help communities,
22 organizations, and individuals work together to get

1 things ready to disseminate and implement. This
2 budget is about 20.5 million per year, and I
3 neglected to say that implementation or shared
4 decision-making is about 6.5 to 8 million total
5 funding available per year. And in June we'll be
6 bringing our recommendations for the first awards
7 under the implementation of shared decision-making.

8 I wanted to show you the schematic of PCORI
9 dissemination and implementation activities because
10 with all the different things that we're doing, it's
11 hard to put it in a cohesive whole. So as you look
12 under PCORI evidence updates, which Joe alluded to,
13 these are activities that are intended to be at the
14 very beginning of the dissemination and
15 implementation activity, including building capacity
16 for dissemination for communities and diverse
17 partners.

18 So really trying to get into communities
19 and get into organizations that need a little
20 capacity-building to start to work in dissemination.
21 It also is a program of conference support, so we
22 split those out separately.

1 And then looking at dissemination
2 activities to bring results to audiences, we'll
3 have a strong interest in using them, really priming
4 the pump so that we make sure that we're targeting
5 activities to payers, clinicians, patients,
6 communities, and purchasers.

7 And then implementation activities, which
8 gets at more of the distal end. And so you'll see
9 up in red there, this is the new proposed targeted
10 funding announcement, which is geared more toward
11 implementation and those research results that have
12 the most likelihood of having a large impact because
13 of either their size or the direction of their
14 findings. And these are intended really to have a
15 large impact. And you'll see the other activities I
16 previously told you about.

17 And underpinning this is our relationship
18 with AHRQ, where we collaborate around nomination of
19 a topic for AHRQ to consider for documentation and
20 implementation. We have about five topics that
21 we've nominated to AHRQ. And we recently held a
22 pretty exciting stakeholder planning meeting around

1 one topic, around anti-coagulation for atrial
2 fibrillation, last week, looking at activities that
3 could be done to implement those findings into
4 clinical practice.

5 So just to give you a background -- you
6 know this, particularly the SOC and the Selection
7 Committee -- that we've made research investments in
8 a lot of high-impact research topics through our
9 targeted funding announcements, our pragmatic
10 clinical studies program, and the PCORnet
11 demonstration studies.

12 We also have some broad or investigator-
13 initiated -- totally investigator-initiated --
14 activities that are looking to be likely to produce
15 some very strong research results. And they reflect
16 priorities that were developed through a pretty
17 systemic topic generation and research
18 prioritization process that included close
19 collaboration with stakeholders.

20 So between 2018 and 2022, we expect
21 approximately 90 studies funded under these
22 mechanisms we'll produce findings. And these

1 studies actually represent a large amount of money
2 in our total PCORI investment, about \$800 million.

3 So the purpose of this proposed
4 implementation funding announcement is to support
5 projects that facilitate the update of peer review
6 clinical comparative effectiveness research from our
7 most major research investments.

8 And as I said, we expect these to be from
9 the targeted funding announcements, pragmatic
10 clinical studies, and the PCORnet demonstration
11 studies. But we do expect there'll be findings from
12 our broad studies that have the strong potential for
13 impact. That may also be a focus of implementation
14 for this funding announcement.

15 And then we are proposing, through a broad
16 call for proposals, to engage and draw on the
17 expertise, creativity, and capacity of a large and
18 highly diverse pool of applicants and implementers,
19 and in service of implementing these important
20 findings. So we really want this to be a broad pool
21 of applicants and a very diverse pool.

22 And the end goal of this, of course, is

1 promoting the undertake of peer review findings from
2 high-impact PCORI-funded studies at the point of
3 care or in other decision settings.

4 So this next slide is actually something
5 that might be easier for you to read in your book.
6 But it really just shows the trajectory of when we
7 are projecting to get findings from the types of
8 studies that I mentioned. So the very beginning
9 will be in 2018, and then ramping up through 2022.

10 So eligible evidence for implementation in
11 this funding announcement includes published peer-
12 reviewed evidence emerging from areas of major PCORI
13 investments, and I've already highlighted these.

14 And each release of the funding
15 announcement will identify selected areas from among
16 the eligible research, so if you will, a sort of a
17 special emphasis, knowing that we will have
18 information that comes out of our peer review
19 process as well as the published literature,
20 including commentaries and editorials that accompany
21 publications.

22 And this flexibility will allow us to

1 promote collaboration and avoid duplication with
2 AHRQ. AHRC selects PCORI CER findings; it's the
3 focus of its own implementation activities. This
4 will allow us to collaborate and have a much larger
5 impact than if we were to fund this in isolation.

6 So this proposed funding announcement will
7 extend and compliment existing dissemination and
8 implementation funding initiatives by providing a
9 mechanism for PCORI to focus on findings from very
10 high-profile, high-priority, and high-impact
11 initiatives.

12 It'll attract a larger and broader pool of
13 applicants, including implementation experts and
14 diverse stakeholder partners, such as different
15 organizations and communities, regions, and states,
16 through an open competition.

17 And it will provide the opportunity to
18 propose larger implementation projects that could be
19 funded otherwise, and to promote the uptake and
20 integration of these findings.

21 So just to give you an overview of where we
22 are, thinking of the funding announcement overview,

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1 the funding announcement release would be cycle 3,
2 2018, which is this coming October. And the first
3 awards would be funded in the summer 2019.

4 As you know, this is an escalated review
5 process, and for this I really want to thank our
6 colleagues in merit review for working with my
7 program staff to recognize that we want to decrease
8 the time from the publication of findings to
9 actually working to get them implemented and
10 awarded. So we all, as I want to say, took a little
11 bit of a hit and shortened the time that we have to
12 do merit review, and program to go back to
13 applicants with questions.

14 The maximum project period would be three
15 years. The funds available would be up to \$10
16 million per cycle, and we're expecting two cycles
17 per year. And the funds available would be adjusted
18 in line with increasing availability of evidence
19 from major PCORI research investments.

20 This is proposed as an open competition.
21 Applicants may or may not have been previous
22 recipients of PCORI awards. And the standard

1 organization eligibility criteria for PCORI awards
2 apply.

3 And so the implementation projects are
4 expected to incorporate active strategies that will
5 lead to the uptake and integration of PCORI evidence
6 in real world practice settings. And they're
7 intended to target specific end users, who are
8 committed and motivated to use the evidence, so have
9 some -- I hate this "skin in the game; I have to
10 think of a baseball analogy rather than football.

11 And then demonstrate commitment and buy-in
12 from proposed implementation sites to improve
13 healthcare quality and a willingness to invest in
14 the evidence being implemented such that they
15 provide a supportive context and culture for
16 undertaking the proposed project.

17 And work with regional and national
18 stakeholder organizations who are positioned to
19 extend the impact of PCORI evidence to broader end
20 use.

21 And then we expect them to be guided by an
22 established conceptual model or framework for

1 dissemination and implementation; and wherever
2 possible, by evidence regarding the effective
3 strategies for implementing evidence-based practices
4 and interventions in different settings.

5 And then to address the adoption --
6 adaptation, excuse me -- of findings to facilitate
7 uptake in the proposed settings, scale-up in order
8 to reach larger numbers, and scale-out, to reach
9 broader audience, as applicable.

10 And then include rigorous evaluation
11 efforts to plan that document. EDIC felt very
12 strongly about this in all of the projects that we
13 fund through all the different mechanisms I
14 mentioned. So there needs to be a rigorous
15 evaluation that documents successful execution of
16 the implementation strategy and the impact of
17 implementation projects on outcomes, including
18 measures of behavior change, healthcare utilization
19 impacts, and impacts on healthy outcomes, as
20 feasible and appropriate within the project scope.

21 So again, this is the timeline and where we
22 are in the timeline. The EDIC endorsed bringing

1 this targeted funding announcement forward to the
2 full board of governors on March 13th of this year.
3 Today we're asking for a vote of the board of
4 governors. If you approve it, we'll begin the
5 formal PFA development and release the funding
6 announcement in September, and have an applicant
7 town hall in October.

8 Our letters of intent would be due for the
9 first cycle in November. The application deadline
10 would be in February. And the EDIC would review our
11 proposed slate in the summer, and we would bring
12 these to the board of governors shortly after that
13 for full approval.

14 So with that, Gray, I'll turn it back to
15 you.

16 CHAIRMAN NORQUIST: Okay. I think Harlan
17 and then Barbara, I see. Oh, and Gail. Okay.
18 Harlan?

19 DR. KRUMHOLZ: Thanks, Jean, and thanks for
20 all your work on behalf of dissemination and
21 implementation, such an important piece.

22 I just wanted to raise publicly that one of

1 the biggest challenges, I think, is to figure out
2 how to disseminate science that -- we know that it's
3 unusual to have such a definitive study that says,
4 "Everybody should do X." And in addition, in a
5 world where we want to channel forth people's
6 preferences, values, and goals, how to place the
7 evidence?

8 The Guideline Committee spent considerable
9 time struggling with this. The reproducibility of
10 the guidelines across organizations often isn't
11 high, but they have methodology to do this.

12 Are we also thinking about the -- I know
13 that you're going to say we need a conceptual model.
14 But I almost think we need new ways of thinking
15 about how a new thing, bright, shiny object, comes
16 out. We're proud of it. We funded it. It was
17 important.

18 But placing it context in the -- and how
19 people should be using it for decision-making,
20 especially as it just comes out, is one of the
21 things that I struggle with because, I mean, I know
22 in our field any given study leads to a lot of

1 debate about experts, and what it exactly means.

2 And how did -- that's one of the principal
3 impediments around bringing it to the point where
4 the public can know what to do. And they know that
5 there are many voices that are on either side of a
6 particular issue.

7 And sometimes in a polarized way, and
8 sometimes with conflicts of interest or particular
9 set ideas about what right is not. A perfect
10 example for us was the ORBITA trial, which suggested
11 -- they did a SAM study of percutaneous coronary
12 intervention. And the group that got the sham
13 improved as much as the group that got the PCI. It
14 was an elegant, beautiful study but elicited -- I
15 mean, I don't know that the public knows quite how
16 to interpret it because the field doesn't know how
17 to interpret it yet, even as it's excellent
18 evidence.

19 But I'm just putting that out there. One
20 of the things, I think, in the struggle here is that
21 -- and just because it's a public meeting -- that it
22 often seems like, "Yeah, you get the studies. Why

1 aren't people following the evidence?" And it's
2 because science doesn't quite work like that, and
3 often progressive and self-correcting needs
4 validation. Whether something's ready for prime
5 time decision-making or not requires a lot of
6 different groups.

7 So I just wondered how you're thinking
8 about it and how we as PCORI are advancing the
9 thinking about how new evidence should be
10 incorporated.

11 MS. SLUTSKY: So you raised an issue that
12 we struggle with every single day. And looking at
13 the directionality of the evidence, the contextual
14 placement of that evidence, and actually the study
15 itself -- is this the largest study which has the
16 same direction? Is this a largish study that goes
17 in another direction? How long did they study these
18 patients? Were these outcomes the same as previous
19 outcomes?

20 So at staff level, we spend a lot of time
21 looking at this. There are times when we actually
22 convene or ask to have topic briefs of an assessment

1 of the literature. Oftentimes, in the applications
2 themselves, the PIs will describe the literature.

3 And sometimes in their draft final reports
4 and their final reports, they put their evidence
5 into context; not always. And depending on how the
6 study is actually published and that's why I
7 mentioned some of the -- some of the things that can
8 signal that this is an important study -- if there's
9 an editorial that the Journal has asked for, the
10 comments of the peer reviewers. We review those
11 carefully because they often give us an idea of how
12 important the study is.

13 And so some studies, probably the best
14 group to disseminate them to, are possibly other
15 researchers, so that they can think of how the next
16 question should be researched based on these
17 findings.

18 DR. KRUMHOLZ: Just to tag on and then let
19 others talk, but I just want to -- just for me, they
20 mean that -- the first thing is for us to fund a
21 group, a week consensus conference among people in -
22 - the experts in the field.

1 Not just experts, but professional sites,
2 whoever's writing guidelines -- so that there
3 becomes a distillation. It's not just us or the
4 investigator, but that there's sort of a rapid
5 ability to put this in context for the field, even
6 putting guidelines, because then there's a second
7 stage, which is -- once occurs, then the question
8 is, how does it get disseminated? Do people then
9 integrate it into practice?

10 But I'm just thinking. I want us to think
11 creatively. Are there ways for us to be able to
12 bring together folks quickly, fund it, say, "Can we
13 make a statement about what this is? We're not" --
14 and not be directional? That is, we're not pushing
15 you to say this is fantastic or not fantastic.

16 We're just trying to get, in a way, an
17 early verdict on where this should go. We want to
18 publish those impressions. And then if we are lucky
19 enough to get a few that everyone is saying, "This
20 is really wonderful," then putting a lot of push
21 behind making sure everything knows about it so that
22 they can be informed in the choices. Anyway, just

1 an idea.

2 MS. SLUTSKY: Yeah. So I think the
3 stakeholder meeting that we held with AHRQ last week
4 -- I think it was last week, yeah; was it last week
5 -- was actually really informative in that area
6 because it was around a single study that was put in
7 context of other studies that sort of leaned in that
8 direction in a pretty meaningful way.

9 And it really gave us lots of really good
10 ideas. So I think you've brought up some issues
11 we're struggling with every day and trying to think
12 about how we can, and our colleagues at AHRQ can, be
13 leaders in the field on this.

14 CHAIRMAN NORQUIST: So what we're going to
15 do was Barbara was next. And I'm going to let
16 Francis, and then we'll come back over here to Gail
17 and go back up this way. Okay. So Barbara?

18 DR. McNEIL: So could you put up slide 8
19 again? It's the slide you rushed by because we had
20 it in our slides. And I didn't have a chance to
21 look at it just now.

22 MS. SLUTSKY: I'm not sure which one's 8.

1 DR. McNEIL: It's the one with the graph of
2 what's going to be available.

3 MS. SLUTSKY: Oh, okay. Yeah.

4 DR. McNEIL: That one.

5 MS. SLUTSKY: Yeah. Okay. Is that the
6 one? No.

7 CHAIRMAN NORQUIST: That's the studies.
8 Were you looking at the overview slides?

9 DR. McNEIL: I have board material slide 8.

10 CHAIRMAN NORQUIST: Go back. There was
11 another kind of graphic.

12 DR. McNEIL: There was another one.

13 CHAIRMAN NORQUIST: There you go.

14 MS. SLUTSKY: Is that it?

15 DR. McNEIL: No. Why do I have a different
16 slide in my index?

17 CHAIRMAN NORQUIST: I don't know.

18 DR. McNEIL: Go back, or go forward --
19 well, it doesn't really -- the one I had for 2018
20 projected had 11 for as many and four for cancer.

21 MS. SLUTSKY: Oh, yeah, that's this slide.

22 CHAIRMAN NORQUIST: Yeah.

1 MS. SLUTSKY: Yeah.

2 DR. McNEIL: Oh, okay. I don't know.
3 Something happened to the transitions on this one.
4 Well, here's my question because it relates to what
5 Harlan just said.

6 So within asthma there are 14 studies, and
7 at least on the slide that I have, within the care
8 transitions, there are four. And then when you go
9 to 2019, there are four on uterine fibroids and --
10 I'm sorry, two on uterine fibroids. Two on fall
11 prevention, and I don't know exactly where the
12 obesity demos fits in; I guess there are two on
13 them.

14 So the question is, is there going to be
15 some kind of synthesis of the results of these 11
16 asthma studies? And the second question is, I
17 didn't quite understand what the different between
18 obesity -- between a demo and something else was.

19 Does the demo mean that it's a trial and
20 that the people can put in more credence in the
21 results? Maybe you could just walk us through what
22 these results mean.

1 MS. SLUTSKY: Sure. We just wanted to give
2 you sort of a projection of when results were coming
3 out. But because asthma and care transitions are
4 the first coming out, we've been working with the
5 project officers for both of these initiatives, and
6 there actually is a fair amount of activity to put
7 them into context.

8 And some of them hold together really well.
9 Some of them are more individual studies that are on
10 different aspects of asthma or care transitions.

11 I probably would let Joe talk a little bit
12 more about what the difference is between an obesity
13 demonstration project and an obesity research
14 project. But the obesity demonstration project
15 results are actually pretty strong, and they've just
16 been published or --

17 DR. SELBY: They were -- yeah. These are
18 from PCORnet. When you see a demo, it's in PCORnet.
19 And they were demonstrations of the capacity to do
20 research. So they were research studies, but they
21 were also intended to demonstrate capacity. It
22 turns out, as Jean said, that the two obesity

1 demonstration projects had very impressive findings.

2 DR. McNEIL: So those are the ones we saw
3 the abstracts for?

4 CHAIRMAN NORQUIST: Yes.

5 DR. McNEIL: So is that -- well, just to
6 push my question, so is that -- we saw the abstracts
7 last spring, I think. Right?

8 CHAIRMAN NORQUIST: The last meeting. At
9 the last meeting --

10 DR. McNEIL: Okay. Whatever it was. So I
11 guess what I'm asking --

12 CHAIRMAN NORQUIST: Just a month ago.

13 DR. McNEIL: Okay. Was that what it was?

14 CHAIRMAN NORQUIST: Yeah.

15 DR. McNEIL: So presumably, that's where I
16 need to go, and with some kind of synthesis of the
17 asthma results, if we were to take a consensus
18 conference the way Harlan has suggested. I'm trying
19 to push us on to get to dissemination faster --

20 MS. SLUTSKY: Yeah. Yeah.

21 DR. McNEIL: -- just because I think it's
22 in our best interest.

1 MS. SLUTSKY: Right. So we still have
2 these other mechanisms that we can use for
3 dissemination of these early findings, including
4 nominating them to AHRQ for dissemination and
5 implementation; using activities that they have as
6 well, or collaborating with them, where we each fund
7 different parts of dissemination,

8 And like I said, these are really -- this
9 graph is really to show you the trajectory of
10 findings. I will say the obesity findings before
11 they actually got published -- we had a meeting with
12 specialty and primary care clinician groups, and
13 they actually talked about the findings at that
14 meeting. And they were quite impressed with not
15 only the findings themselves, but how the diversity
16 across the country and how the surgical techniques
17 for obesity haven't caught up with the actual
18 findings of this research.

19 CHAIRMAN NORQUIST: So what we're going to
20 do is I'm going to let Francis go and then we'll
21 come back over to Gail. So just for people on the
22 phone, since this is Francis' first meeting, Dr.

1 Francis Chesley, who's the acting deputy director of
2 AHRC and is representing Gopal Khanna today.

3 DR. CHESLEY: Thank you, Gray. Thank you
4 Jean. This is exciting.

5 Just one quick question. We've struggled
6 over the years with trying to guide researchers in
7 the DNI area with a single study and implementation
8 versus a body of work. And I wonder, how does this
9 portfolio of PFA's unfold? How do you balance that?
10 And will you push in one area or the other?

11 And then kind of a sad question. I'm
12 thinking of the answer, but methods of DNI wouldn't
13 be part of that?

14 MS. SLUTSKY: No. So actually, actually
15 PCORI has built a methods portfolio and a
16 communication dissemination research portfolio. I
17 mean, we actually hope that the evaluation -- this
18 is more like a -- I guess if I were going to make --
19 what is this equivalent to in the federal funding
20 world, I would say in R24 or demonstration projects
21 with a very strong evaluative component.

22 You're highlighting, as Harlan is, how we

1 are struggling with how to put these within the
2 context of evidence. And part of that is working
3 with AHRQ evidence updates, evidence mapping. Our
4 own portfolio that Evelyn has set up on evidence
5 mapping, the pilot was looking at our existing
6 portfolio. But one could conceive broadening that
7 to take in outside evidence as well. And that's a
8 shorter trajectory than doing a very large systemic
9 review.

10 But you're right. And along with you, I've
11 struggled with this issue when most of my career on
12 how do you put things into context without actually
13 delaying unnecessarily the implementation, but the
14 important process of looking at how this had been to
15 a larger body of evidence.

16 CHAIRMAN NORQUIST: Gail?

17 MS. HUNT: Yeah. I remember from an early
18 meeting that we had in Palo Alto that one of the
19 issues that's come up repeatedly is how do we
20 actually get to implementation by primary care docs
21 in relation to their patients and families? And
22 that's something -- what I'm wondering is, can we do

1 a PCORI study on which of these implementation
2 interventions actually works?

3 I understand that it's early. But it's not
4 so much that it's this implementation, this study,
5 this study, this study. But do we have something
6 that looks at, overall, here are a couple of
7 interventions that actually get down to the point of
8 implementation so that future researchers who will
9 be able to use something like that when they're
10 thinking about implementation?

11 MS. SLUTSKY: I wish Brian Mittman was here
12 because he'd probably grab the microphone and say,
13 "Well, I can tell you about that body of research."
14 So there is a fairly strong body of research about
15 different frameworks that work in different settings
16 for different stakeholders.

17 It's not an exact science, like out comes
18 and effectiveness research. It's the messier type
19 of science. But there is a pretty good body of
20 research, and we actually hope that PCORI will
21 continue to actually contribute to that.

22 There's a project that's ongoing at AHRQ,

1 and Francis could probably talk about that, which
2 really -- I call it the anatomy of a healthcare
3 system project, where it looks at different
4 components of health systems and how you can use the
5 knowledge of how health systems are wired to
6 implement findings faster and better.

7 So I don't want to put him on the spot, but
8 there are things that are being done and have been
9 done that can inform this.

10 MS. HUNT: I know. But what I'm saying is,
11 can PCORI, for example, help the studies that are --
12 the people that we're going to be funding to do
13 dissemination and implementation --

14 MS. SLUTSKY: I'm sorry. Yes.

15 MS. HUNT: -- can they help to provide them
16 with this kind of information so that they can move
17 forward more quickly.

18 MS. SLUTSKY: Yes. And one of the things
19 that PCORI did about three years ago was actually
20 create a toolkit and a framework for implementation,
21 for dissemination and implementation, that is
22 intended to do that.

1 But yes, the staff of our dissemination and
2 implementation program spend a lot of time with
3 prospective applicants, and those applicants that
4 actually successfully have a project awarded.

5 DR. ZWOLAK: Jean, this is certainly very
6 important. But I'm also struggling a tiny bit with
7 the idea of how we put our PCORI funded studies in
8 context. And perhaps if you could help my
9 describing who you foresee as successful applicant
10 vendor of this.

11 Will it be a scientist or group of
12 scientists who are experts in the field? Will it be
13 a professional society, if a group of asthma studies
14 would be the asthma professional society, that might
15 put this in context, or a CME vendor, for instance,
16 at the other extreme end.

17 Because whoever does this, with their
18 individual \$2-1/2 million award, is going to have a
19 significant opportunity, I think, to help put this
20 in context. And to some extent it depends who does
21 it. But the product comes out being --

22 MS. SLUTSKY: Right. So we are going to be

1 encouraging in the funding announcement for
2 collaborations, the collaborations between
3 communities, researchers, and implementers.

4 So I don't think the standard research
5 model will work very well in this setting, and
6 that's why we've created support through the
7 engagement awards program, to help prime
8 organizations like medical specialty societies,
9 individual communities, components within
10 communities to actually come together on some of
11 these awards.

12 So you're right, it has to be a
13 collaborative effective in order to get these large
14 implementation projects off the ground. And that's
15 how the funding announcement will be written, to
16 encourage those collaborations of pretty diverse
17 organizations with communities.

18 At the EDIC meeting tomorrow, they're going
19 to hear about two interventions that we did in two
20 Ohio towns, Cleveland and Columbus, where we brought
21 all of -- they brought all the different components
22 of the community.

1 They have a health collaborative in both
2 communities, where we spent the day with them
3 introducing them to PCORI, introducing them to some
4 findings that we have that we know fit within the
5 context of other findings. Enormously successful,
6 but it really took bringing in multiple components
7 of a community to make that successful.

8 CHAIRMAN NORQUIST: Okay. We'll get all
9 that [off microphone].

10 DR. FERNANDEZ: Thank you, Jean. I'm very
11 excited to see these, and I think that rigorous
12 funding -- funding, rather, of rigorous
13 implementation -- as you're laying out in this PFA
14 is exactly what we need. And I'm very glad to see
15 it.

16 I want to pick up on something that Gail
17 said, which is very similar to what I was going to
18 say. And I'm just not sure that -- I want to make
19 sure that -- I know you know, but I want to make
20 sure that the board, that we're all on the same page
21 with this, which is that these are fundings for
22 implementation projects, if I understand correctly,

1 as opposed to implementation science.

2 And I think that it is time for us to move
3 additionally toward funding implementation science.
4 And what implementation science can look like from a
5 PCORI framework is pretty much exactly what Gail was
6 saying, which is to compare different types of
7 information approaches to see which ones result in
8 better uptake and more successful outcome.

9 Up to now, there have been perhaps a few
10 projects that could be characterized that way within
11 the science portfolio. But in general, that has not
12 been a focus of science, nor is it a focus,
13 appropriately, of DNI and the EDIC because that is
14 focused on implementing PCORI work and disseminating
15 PCORI work.

16 And what I would like the board at a future
17 meeting to think about is would not we're ready to
18 add an implementation science component to our
19 scientific portfolio that would allow us to tackle
20 questions like this. So a perfect example is in
21 anticoagulation. It's been known since the 1980s
22 that anticoagulation prevents strokes. There are

1 now newer medications that may result in a higher
2 uptake.

3 However, the huge gap in this is getting
4 uptake of any medication whatsoever. What is called
5 for is less implementation -- is implementation.
6 But what is even more called for is implementation
7 science. What is the best way to get uptake around
8 this for house systems?

9 And I think that's where we as a board will
10 have an opportunity, I hope, to put on our agenda to
11 talk about that in conjunction between the SOC and
12 the EDIC, and put larger amounts of funding,
13 perhaps, behind these sorts of questions.

14 But in the meantime, I want to say how
15 happy I am that we are doing implementation and
16 broad dissemination. And I'm also really glad to
17 see the panoply of options that we have around that.
18 So I hope this was helpful. Thank you.

19 MS. SLUTSKY: Thank you.

20 CHAIRMAN NORQUIST: Thanks. Christine?

21 DR. GOERTZ: Yes. I just wanted to note
22 also my strong support for this initiative. I think

1 it's really important. I know the devil is going to
2 be in the details in trying to provide the
3 appropriate amount of guidance to investigators
4 while still leaving them the opportunity to be
5 creative on their own. That looks to me like as
6 you're starting to set this up, that you're doing a
7 good job of walking that very difficult line.

8 On a separate but related note, Jean, I
9 just really wanted to compliment you and your staff
10 on the excellent job you've already done in
11 disseminating information on the PCORI website
12 regarding the studies that are already available.

13 It really is -- I don't know if the board
14 has had a chance to go and look at the website and
15 look at how the study findings that we already have
16 are presented. But it's really well done. It's a
17 model for others to follow. So thank you for the
18 excellent work.

19 MS. SLUTSKY: I appreciate that. And I'm
20 looking around the room, and there are lots of
21 people here. But as of late Friday we had 101
22 studies that have research project pages with a

1 variety of information on them. So that's a true
2 milestone for PCORI.

3 CHAIRMAN NORQUIST: Yes. Thanks to Jean
4 and your staff and these other documents that we've
5 been using up on the Hill and with other people have
6 been very helpful. I think you've gotten a number
7 of suggestions here, one about the implementation
8 science thing. I think we can bring that back.

9 I think Harlan's point and the others about
10 putting these things in a context and understanding
11 what's really ready to be used. And then I think
12 Barbara's big push about the quicker we can move it,
13 the better, which is the other thing that we're
14 hearing. Right?

15 Okay. So what I need now is a motion to
16 approve the development of this PFA.

17 DR. FERNANDEZ: So moved.

18 CHAIRMAN NORQUIST: Alicia. And

19 CHAIRMAN NORQUIST: Okay. Then a second?

20 MS. SLUTSKY: Second.

21 CHAIRMAN NORQUIST: Gail. Okay. So I need
22 a hand vote here. All those in favor?

1 [Hands raised.]

2 CHAIRMAN NORQUIST: And is anybody opposed?

3 [No response.]

4 CHAIRMAN NORQUIST: Okay. Anybody
5 abstaining?

6 [No response.]

7 CHAIRMAN NORQUIST: All right. Allen, are
8 you on the phone?

9 [No response.]

10 CHAIRMAN NORQUIST: No? Okay. All right.
11 So thanks, Jean. Now you have something to do.

12 MS. SLUTSKY: Thank you.

13 [Laughter.]

14 CHAIRMAN NORQUIST: As if you didn't have
15 something to do. Right?

16 MS. SLUTSKY: I have so much time on my
17 hands, I don't know what to do with it.

18 CHAIRMAN NORQUIST: Okay. So we're going
19 to move on now, and then next item on the agenda is
20 a Methodology Committee update. So Robin, this is
21 all yours.

22 MS. NEWHOUSE: Thank you. Do I need the

1 advancer? Okay. Thank you very much.

2 All right. I'm pleased on behalf of the
3 Methodology Committee to provide an update. And
4 before you see the Methodology Committee members. I
5 thank each and every one of them for all they've
6 done to help us develop these standards, ready for
7 presentation today.

8 Okay. Steve, are you on the line?

9 [No response.]

10 DR. GOODMAN: Yes, I am.

11 MS. NEWHOUSE: Oh, great. Very good.

12 Wonderful. Well, if you want to intersect on
13 anything I say, Steve, please jump in.

14 So in addition to the Methodology
15 Committee, a number of the PCORI staff have been
16 very helpful in a number of ways. And I thank each
17 and every one of them. In particular, Emily Evans
18 and David Hickam have worked with us quite
19 extensively, and we appreciate all of their help and
20 support.

21 So just in terms of a background, the
22 methodology standards were required as part of the

1 authorizing statute of PCORI. The Methodology
2 Committee had two roles. One is to develop
3 methodology standards that PCORI would use to fund
4 comparative effectiveness research.

5 They are intended to be minimal standards
6 for the design, conduct, and reporting of
7 comparative effectiveness research -- not gold
8 standards, but minimum standards. And they were to
9 provide guidance for researchers that use research
10 results. So they do reflect, generally, best
11 practices.

12 The process for developing and adoption of
13 methodology standards have been standard over the
14 past couple years. Number one, we started with
15 understanding the evidence related to the
16 methodology standard. Those methodology standard
17 topics were suggested, usually from the field, from
18 public comments, from the website, or feedback we
19 got in open presentations.

20 After the summary of the evidence, we
21 generally pull together a team of experts after
22 review of the Methodology Committee for a consensus.

1 And then those standards are posted for public
2 comment. The standards we'll be presenting today
3 were presented to you for public comment last year
4 and were open for public comment between October and
5 December of 2017.

6 The Methodology Committee then reviewed
7 each and every public comment and revised the
8 standard accordingly, and then deliberated once
9 again on the standard, and then voted to approve and
10 recommend the adoption of standard 5, or the studies
11 of complex intervention, and one standard for the
12 data management plan that's really being added to
13 another standard.

14 So first of all is the proposed standards
15 for studies of complex intervention. So this was an
16 area that we had lots of feedback about the need for
17 standards for complex interventions. Certainly it
18 is a confusing area in the field. There are
19 multiple studies of complex intervention that PCORI
20 funds.

21 And the purpose of these studies are really
22 to build a rigor and transparency when the proposals

1 -- first of all, in the proposals of studies that
2 PCORI would fund, in the conduct of studies that
3 PCORI funds, and in the reporting of those study
4 results.

5 So there are five specific standards. The
6 first is to fully describe the intervention and
7 comparator and define their core function. So it's
8 important in a complex intervention to be very clear
9 with that core function to then test the fidelity of
10 the core function, as well as understand the
11 contextual variables and other variables that may
12 affect these complex interventions.

13 A complex intervention, by nature, has
14 multiple components that sometimes interact. And
15 the opportunity to be very clear about the
16 intervention and comparator will give us more
17 confidence in the results that are generated.

18 Second, to specify the hypothesized causal
19 pathways and their theoretical basis. So this
20 standard is based on the empiric support for the
21 intervention as well as the mapping to the
22 intervention and the outcome.

1 The third is to specify how adaptations to
2 the form of the intervention and comparator will be
3 allowed and recorded. So the function of the
4 intervention shouldn't be changed. But there are a
5 number of ways that the intervention could be
6 adapted, as you might think that a rural hospital
7 may adapt a diabetes program or intervention a
8 little differently than an academic health center.

9 So there'll be differences in how the form
10 -- there may be some web-based support. There may
11 be some different tools that they use. But the
12 function stays sound.

13 The next is to plan and describe the
14 process evaluation. So these complex interventions
15 are generally tied to some kind of process, being
16 very clear in that process what that process is, how
17 you're going to measure the process in the
18 comparison group. It's incredibly important.

19 And the last is to select patient outcomes
20 that are informed by that causal pathway, that
21 causal pathway that links the processes to the
22 outcomes and any covariates that might need to be

1 described as well.

2 So those are the five standards for complex
3 interventions. The next recommended new standard is
4 in data integrity and rigorous analysis. I don't
5 need to say much about how important a data
6 management plan is to any study a priori, being very
7 clear about where one is going to get the data, how
8 it's going to be collected, code books, the
9 metadata; and assuring that the data collection
10 could be reproduced, and when we're in the analysis
11 stage, that it's very clear what the data
12 represents.

13 So this is another standard that will
14 increase transparency and reproducibility of our
15 research results. It would be a standard that's
16 added to the current standards on data integrity and
17 rigorous analysis.

18 And this standard just describes what
19 should be included in the study protocol. Specify a
20 data management plan that addresses, at a minimum,
21 the following elements: collecting data, so how is
22 data collected; how is data organized; how is it

1 handled, who has access to it; describing the data,
2 preserving the data, and sharing the data.

3 So these two sets of standards have been
4 approved by the methodology committee. We're
5 recommending that the board adopt these six
6 methodology standards today. The next steps would
7 be to include them with the addition -- with the
8 standards that are already in place. And upon
9 adoption, they'll be implemented for cycle 2
10 funding, which will occur in the fall of 2018.

11 We'll also work toward updating the
12 methodology report, which is expected to be done in
13 June or July of 2018.

14 And in addition to those activities, just
15 to update you on our continuing work, we're still
16 doing some development of standards in the area of
17 data quality, individual participant data meta-
18 analysis, and qualitative and mixed methods.

19 Now, the individual participant data meta-
20 analysis and qualitative and mixed methods were two
21 areas that we also received public comments and
22 recommendations for additional standards. So with

1 that, I would say those are the two that will be
2 coming to you next for a request for posting for
3 public comment.

4 So with that, I'll stop and answer any
5 questions that you may have, and recommend adoption
6 of these six methodology standards.

7 CHAIRMAN NORQUIST: So let's start --
8 Alicia, I think, is the only one I see.

9 DR. FERNANDEZ: Thank you, I was really
10 happy to see these, and completely agree that this
11 is really great.

12 My question has to do with the data
13 collection one and the level of detail that will be
14 required of investigators. And without getting too
15 much into the weeds, I'm a little bit scared of the
16 responsible both from the merit review side and on
17 the investigator burden side, even though I
18 completely concur that these are reasonable
19 standards.

20 Will there be actual examples in the
21 methodology report of how to respond to these data
22 concerns? And to what extent will they -- in your

1 view will they really require deep additional work
2 on the part of investigators?

3 MS. NEWHOUSE: Yeah. These are just part
4 of good clinical practices. So it's really not
5 asking for anything other than what we should be
6 doing if we're submitting a proposal a priori and
7 planning our data plan.

8 And it's a matter of making sure that we
9 used the approach that we designed, that we captured
10 the data the way that has integrity, that there's
11 transparency to what we're doing, and that the data
12 capture is fully understood. And there's a code
13 book, a data plan.

14 So it really isn't anything more than we
15 should be doing anyway. The question about, will
16 there be an example on the website, I'll have to ask
17 for some help from the PCORI staff. We did post an
18 example of a standard PCORI report, but I don't
19 believe there's anything now.

20 CHAIRMAN NORQUIST: [Off microphone.]

21 SPEAKER: Thank you. So, Alicia, one thing
22 to notice is this was in the study protocol, not the

1 study proposal or application. So it's the detail
2 that would be in the protocol after the study is
3 funded. I Heard you say thank you were concerned
4 about merit review.

5 DR. FERNANDEZ: Then in that case, it is
6 very much what we already do. The one thing that
7 struck me is the data-sharing plan and whether that
8 can -- that is sometimes not something that people
9 have thought out in advance. And to a certain
10 extent, we should push for people to think that out
11 in advance. But as you know, it can be a highly
12 complex issue.

13 DR. SELBY: I'll just say to that that
14 tomorrow at the RTC, we will be discussing a nearly
15 fully fleshed out data-sharing policy, which is the
16 product of both extensive public comment, received
17 public comments, and a pilot study.

18 So within the next month or two, I think a
19 data-sharing policy will be coming to the board.
20 And you are right that that will be -- there will be
21 some pushback. It's anticipated that there'll be
22 pushback there.

1 MS. NEWHOUSE: So Steve, I wonder if you
2 want to jump in with any comments here.

3 DR. GOODMAN: No. You've pretty much
4 covered it. I do think that even in a protocol,
5 this can be handled very, very expeditiously. We
6 just want to make sure that people are thinking of
7 each of the elements and aren't saying things like,
8 "The data will be stored in an Excel spreadsheet,"
9 et cetera, et cetera.

10 So these are the elements of, as Robin
11 said, good clinical practice. But we're not sure
12 that all our researchers are following these. So
13 it's not meant to be onerous. It's just simply
14 describing what they're doing, assuming that what
15 they're doing is good practice. And if it isn't,
16 then we have a chance to modify it.

17 DR. KRUMHOLZ: So I want to go back to --
18 thanks, Steve and thanks, Robin. This is great.
19 And I want to congratulate the Methodology Committee
20 for taking on a very difficult issue.

21 I want to go back to one of the themes that
22 I've been raising within PCORI for our continued

1 consideration because of its relevance in particular
2 -- this issue of complex interventions.

3 Where I've seen the most problem with the
4 complex interventions, which are highly context-
5 dependent, is that they are developed, thought of,
6 by an enthusiast who's got a good idea, or who's
7 team's got a good idea, and then implement it
8 locally or within a small range of friends and
9 family sites in ways that leave questions about the
10 generalizability and reproducibility ultimately
11 because a of high level of enthusiasm.

12 For me, the entire study, in a way -- not
13 even just talking about cognitive bias, but at least
14 I've seen it. I've seen my own place. I've seen
15 studies I've conducted myself where I wonder if the
16 way that we've actually implemented it, there was an
17 active ingredient.

18 But the active ingredient was surrounded by
19 the best that we could optimize everything, and our
20 enthusiasm, and so forth. And often, they're not
21 blinded. So there are all these ways that this gets
22 in, and you guys are addressing these.

1 But one if the ways that I've thought,
2 again, for PCORI to proceed is that somebody has a
3 great idea for a complex intervention. And then we
4 separate the implementation of the study from the
5 person who's come up with the idea, in that we've
6 created an arm's length relationship where we now go
7 out for bids for groups that want to actually try to
8 implement this study. The person who's the
9 originator is the architect.

10 But they're not necessarily a general
11 contractor because they're basically setting out --
12 it's going to be their building. It's an I.M. Pei
13 building. No one says, "Who's the one who actually
14 built the building?" It's their design. They are
15 going to be in charge of this.

16 But the actual implementation, what we're
17 interested in, is does this thing work wherever you
18 put ore in the places in which it's intended to
19 work? And does it get the kind of effect that we
20 hope to find. And I just think maybe this is just
21 something -- and I'm not suggesting -- this looks
22 great and is going to be an advance.

1 But I also just want us to be thinking
2 about -- because this is ultimately all about the
3 implementation science, by the way. And I 100
4 percent agree with Alicia about the importance of
5 implementation science.

6 But the issue of implementation science
7 ultimately becomes, "How do you move away from
8 anecdotes of -- or what works locally to things that
9 can actually scale, and yet be flexible enough to be
10 refined for the constraints of a particular
11 environment?"

12 And so anyway, I just think this issue of
13 complex interventions will remain a very important
14 topic for PCORI for -- from here on. And our
15 struggle with this, both in what we fund, how we
16 fund it, how we generate the knowledge. And then
17 how we're sure that ultimately gets disseminated is
18 something where we can break new ground with regard
19 to how that's done.

20 And I just think these are particularly
21 susceptible to the kind of contextual influences
22 that may, in the end, undermine their

1 generalizability. And it's something we need to
2 think about.

3 MS. NEWHOUSE: Thank you.

4 CHAIRMAN NORQUIST: I need a motion to
5 adopt the --

6 MS. GOERTZ: So moved.

7 CHAIRMAN NORQUIST: Yeah, Christine.

8 MS. SIGAL: Second.

9 CHAIRMAN NORQUIST: all those in favor,
10 raise your hand.

11 [Hands raised.]

12 CHAIRMAN NORQUIST: And anybody opposed?

13 [No response.]

14 CHAIRMAN NORQUIST: Anybody abstaining?

15 [No response.]

16 CHAIRMAN NORQUIST: Okay. It passes.

17 MS. NEWHOUSE: Thank you all.

18 CHAIRMAN NORQUIST: Thank you. Thank the
19 Methodology Committee, yeah.

20 [Applause]

21 SPEAKER: Gray?

22 CHAIRMAN NORQUIST: Oh, yes.

1 [Off microphone discussion.]

2 CHAIRMAN NORQUIST: Anything before we
3 break?

4 MS. NEWHOUSE: No. They were posted for
5 comment, yes. And we incorporated all the comments
6 into our revision, which you now have. And so they
7 aren't posted publicly, but they will be now that
8 you voted. Yeah.

9 CHAIRMAN NORQUIST: Okay. So what we're
10 going to do is take a break until 1:00 p.m. Eastern
11 Daylight time. And then we'll be back then.

12 [Whereupon, at 11:53 a.m., the meeting was
13 recessed, to reconvene at 1:00 p.m., this same day.]

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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 CHAIRMAN NORQUIST: Okay. We're back on
4 the telephone, so I need everybody to sit down.
5 Harlan? Okay. So we're on live now, so we need to
6 go ahead and start.

7 So welcome back to those of you who are
8 rejoining us for the afternoon session. And I'm
9 going to turn us over to Gail Hunt, one of the board
10 members, who's going to introduce our next panel,
11 which is our stakeholder panel. So Gail?

12 MS. HUNT: So good afternoon, everybody.
13 Just to recap for those of you that don't remember,
14 PCORI's mission from the beginning has really been
15 to develop priorities for questions that should be
16 addressed by research; to conduct the research for
17 that; and then to look at evidence of helping
18 patients and families, I might add, to make more
19 informed healthcare decisions. So that's really at
20 the crux of what we do.

21 And I'm sorry that Harlan Krumholz just
22 left the room because at one of our very first

1 meetings, he's the one who said, "Patients are our
2 true north." So that's what PCORI's really all
3 about. And I think we all believe in that very
4 much.

5 So we have taken that concept of patients
6 being our true north and really infused that into
7 the culture of PCORI. So, for example, we require
8 that there should be patients and caregivers on our
9 Merit Review Committees; also that they be involved
10 in actual design and dissemination of the research
11 that we do. So we've tried to ensure that all of
12 the research that PCORI does is patient- and family-
13 centered.

14 While we've made great strides, I think, at
15 bringing patients to the table for this, and we can
16 see it not only in PCORI's research but in research
17 being done by other organizations that now have
18 adopted this and have -- are bringing patients and
19 families into their research design, but yet patient
20 groups -- and add the patient advocacy organizations
21 -- have talked about how sometimes it's very
22 difficult to get their research funded, to

1 understand how they can best be employed by the
2 research process, and how they can put their stamp,
3 as it should be, on the research so that it's
4 patient- and family-centered.

5 So with our reauthorization coming up, as
6 all of you on the board have the top of mind, we
7 thought it would be good to hear from a couple of
8 key constituent organizations about patient
9 engagement and how PCORI can do better in the future
10 for patient and family engagement, again reaching
11 down to help improve healthcare decision-making at
12 really the patient, the primary care doc, and the
13 family level. That's one of our major missions.

14 So with that, I'm going to introduce two of
15 the people that we have invited here. One is Bari
16 Talenti, who's executive vice president for advocacy
17 at the National MS Society. And the other is Sohini
18 Chowdhury, who's deputy CEO for the Michael J. Fox
19 Foundation.

20 And then after these two ladies have
21 spoken, we're going to throw it open and have board
22 questions. So Bari, you want to take it away?

1 MS. TALENTI: Great. Thanks, Gail, and
2 thanks for inviting us to be here today.

3 So I've been asked to break this down a
4 little bit and to talk about what has worked well,
5 what could be a little bit better, and then just
6 some thoughts about reauthorization. So I'll talk a
7 little bit about that, and then I'm looking forward
8 to some interactive conversation towards the end of
9 our presentation.

10 So PCORI has worked really well and really
11 diligently to develop an understanding of multiple
12 sclerosis. And I think that's one of the more
13 complex things in funding a wide range of research
14 areas, is to really develop that level of
15 understanding. And that really can only come from
16 hearing directly from people who are living with and
17 affected by the particular disease or illness.

18 And we started at the National MS Society.
19 We had a connection to Joe soon after PCORI came
20 into being. And we had some initial conversations,
21 and really started to talk about what would that
22 look like for PCORI, to make sure that they

1 understood MS, and understood it from the
2 perspective of people living with the disease,
3 understand what patients are really looking for from
4 research.

5 And that's really the only way that we're
6 going to get to that place where research is driving
7 towards the answers that patients are looking for
8 rather than just research that's based on what
9 researchers and investigators are interested in from
10 the scientific question.

11 So there's a lot of that research that
12 happens, and not as much that happens that's really
13 looking specifically to answer the questions that
14 people living with MS or other diseases are asking.

15 And so PCORI has really done an excellent
16 job off listening to people with MS, and pulling
17 together a number of different sessions where there
18 was an opportunity to hear directly from people with
19 MS; to hear from clinicians who were directly
20 treating patients with MS; and to listen to family
21 members and to really hear about the impacts that MS
22 was having and how PCORI could weigh in and make a

1 difference in the research that PCORI was able to
2 fund.

3 So through that, there have been a number
4 of different areas that PCORI has looked at that are
5 really specific to MS. And they really align with
6 the questions that people with MS are asking the
7 National MS Society, and what people with MS are
8 talking about that we see through our tracking of
9 what's coming up on social media, through surveys
10 that we do.

11 So the PCORI research is really narrowing
12 in on newest questions that people with MS are as I,
13 asking looking at some of the top symptoms that
14 people are having that have been really difficult to
15 find good solutions and answers to, like fatigue and
16 pain.

17 And for a long time, people with MS would
18 say they have pain, but that was kind of dismissed
19 by the medical community because it's not the
20 typical pain that you find. And we don't really
21 have good answers for how to address that type of
22 pain.

1 And fatigue is really quite common among
2 people with MS, and really has impact across living
3 with the disease. And is probably one of the
4 reasons that people stop working so early in the
5 disease course.

6 So while there's a lot of focus on the
7 symptoms of MS and in treating the disease itself,
8 PCORI is really looking at some of those answers for
9 what's going to have the biggest impact on people
10 with MS to live their life well throughout the
11 course of their disease.

12 So the symptoms like pain and fatigue,
13 really looking at Teller [phonetic] rehabilitation,
14 which is incredibly exciting for people, so we can
15 find answers for people -- again, not just in the
16 symptoms of the disease, but really looking at how
17 do we find answers for people no matter where they
18 live, no matter the course of the disease that they
19 have, to be able to really engage in some of these
20 solutions that we hope the PCORI research will
21 uncover.

22 And then recently some very exciting

1 research, looking at what's the best pathway on
2 disease-modifying therapies for MS? Do we start at
3 early aggressive treatment and then work down if
4 people break through those treatments? Or do we
5 start at some of the more traditional maintenance
6 therapies and work our way up?

7 And again, these are questions that people
8 with MS have been asking. And this in particular,
9 with the disease-modifying therapy, is because we're
10 fortunate to have so many disease-modifying
11 treatments for MS, more than a dozen.

12 We're always at this place where insurance
13 coverage looks really different in some places, and
14 it's not based on the kind of data and good research
15 that we all want it to be. So people with MS could
16 have a different experience of what disease-
17 modifying treatment may be available simply based on
18 the insurance coverage that they have.

19 And so this research is really critical to
20 understanding those answers. So for people with MS,
21 for health insurers, and for the health system at
22 large, they're really getting to the health outcomes

1 answers that we need, both for the individual but
2 also from a population basis, and really to have an
3 impact on the healthcare system.

4 So the National MS Society funds research
5 every year. We fund between 40- and \$50 million of
6 research every year, so a sizeable number. But we
7 don't have the resources that PCORI does. And so
8 the type of research that PCORI is able to fund just
9 would not be happening otherwise.

10 And I think that that's -- really, one of
11 the key things to think about as we move into
12 reauthorization is to be able to talk about the
13 spectrum of research that's happening, and where
14 PCORI fits within that.

15 So there is a tendency on the Hill to
16 sometimes talk about all medical research as being
17 duplicative; if it's happening in one place and
18 another place, it must be the same research that's
19 happening.

20 And we know that's not true, and I think
21 that that's something that's incredibly important
22 for PCORI to be able to emphasize as we go through

1 those reauthorization talks and to really point out
2 the differences about the research that's happening
3 here, how it's different than what's happening in
4 any other place, and how that matters both to
5 individuals but also to the health system at large.
6 `That we hope they'll have as they're working
7 towards So talking a little bit about what could be
8 better as we all continue to work together. The
9 comparative trials that PCORI does are very
10 expensive, and we all know that. And while PCORI is
11 providing robust funding, we do still have, at the
12 National MS Society, PCORI-funded researchers that
13 are coming to the National MS Society for
14 supplemental funding.

15 And so it might be worth exploring whether
16 it's time to do less projects and more robust
17 funding, or to really be talking with the
18 researchers about the level of funding that they
19 need to make sure that they're having sufficient
20 funding to get the outcomes that we hope they'll
21 have as they're working towards that.

22 One of the other things that researchers

1 have talked to us about is that while comparative
2 effectiveness studies are much needed and they're
3 likely only happening here, they still are more
4 conventional studies that are happening. And it's a
5 rather conventional peer-reviewed process that's
6 happening through PCORI.

7 And so there might be opportunities to
8 explore some more innovative approaches to
9 comparative effectiveness, innovative trial design,
10 and alternative trial design that are going to help
11 us get to answers for people with MS and others in a
12 quicker way.

13 We have these discussions quite a lot
14 within the MS space as we don't have biomarkers, and
15 especially as we're focused within the MS Society a
16 lot on progressive MS because there's only one
17 treatment right now for primary progressive MS.

18 How do we look at designing trials in a way
19 and finding those outcomes that get us those answers
20 in a quicker way? There's a lot of reliance in MS
21 on the EDSS Scale to measure disability. There's
22 also a lot of agreement that people don't love the

1 EDSS scale, but it's what we currently have and it's
2 what the FDA considers.

3 So there might be opportunities to look at
4 alternative ways to measure disability as a
5 community and to maybe pilot this through some PCORI
6 pilot grants or innovation projects or some method
7 of funding that PCORI could develop.

8 So I think -- one of the other things
9 that's been brought to my attention recently has
10 been through the patient-powered networks. And
11 there is one in MS, "I Conquer MS." It's been very
12 successful, and we've worked quite a bit with the
13 group that is behind that accelerated cure project.

14 And I can also share that a number of the
15 research proposals that come to the National MS
16 Society for funding are utilizing "I Conquer MS."
17 So that's great to see, to see that the "I Conquer
18 MS" individuals, the people who are lending their
19 data and information and participating in a patient-
20 powered network, are seeing use of that and who are
21 seeing some good attention to the patient-powered
22 networks, and what we can learn from them, and some

1 proposals from them.

2 I think as those networks are shifting a
3 little bit, and moving, I believe, towards the
4 People-Centered Research Foundation, I think there's
5 been some confusion around that process, and how
6 some of those decisions are being made, and whether
7 patients are being engaged as much as possible
8 throughout that process.

9 So, then, just again to think about
10 reauthorization in addition to really making sure
11 that we're talking clearly about the role, and the
12 benefit that the PCORI work brings, and how it's
13 different than what's already out there; but to also
14 explore through reauthorization if there's different
15 ways for organizations like PCORI and the National
16 MS Society or patient advocacy groups to find ways
17 to aggregate funding at the outset of projects to
18 really bring that forward.

19 So like I said, there have been a number of
20 researchers, funded by PCORI, who have come to the
21 MS Society for supplemental funding. Or there are
22 ways that we can all agree on some of those projects

1 and areas of research up front, and think about ways
2 to be more creative with some of that funding that
3 we can all bring to the table together; to them look
4 at maybe funding projects in that way rather than
5 PCORI funding projects, and the MS Society getting
6 requests for supplemental funding, trying to address
7 that at the outset.

8 So I think I'll stop there, and I look
9 forward to some dialogue.

10 CHAIRMAN NORQUIST: Sohini?

11 MS. CHOWDHURY: Hi. Good afternoon. Thank
12 you so much for the invitation to join you today.

13 Just as a little bit of background for
14 those of you who may not be familiar with the
15 Michael J. Fox Foundation, we were funded 18 years
16 ago with one goal, which is to aggressively fund
17 research to find new therapies for patients, and in
18 the 18 years since we were founded over \$730 million
19 of research.

20 This year we are looking to fund \$86
21 million in research. And so, on average, we provide
22 between 80- and \$90 million in research, focused

1 primarily on the translational clinical spectrum of
2 their research paradigm.

3 What I was asked to do today was to provide
4 some feedback about the interactions that we've had
5 with PCORI. And in this situation, we've actually
6 had two interactions, one in which we were -- we
7 applied for funding and we were an awardee in that
8 experience.

9 And then one instance, which I believe is unique in
10 -- relatively unique DFO, is that we were awarded
11 funding, and we actually declined that funding.

12 And so what I'm here to talk about today is
13 our experiences in both of those instances, and
14 hopefully then go into some interesting discussion
15 with them, with my panelists and you all.

16 So let me start off with our first
17 interaction with PCORI. So we applied for and
18 received a PCORI engagement award for a project
19 entitled, "Educating and Engaging Clinicians to
20 Strengthen Patient Engagement in Parkinson's Disease
21 Research."

22 This grant specifically provided funding to

1 help support clinical outreach that we conducted
2 between 2015 and 2017, which was aimed at helping
3 clinicians build a research partnership with their
4 patients by increasing their awareness of and
5 enthusiasm for Parkinson's research.

6 And so specific activities that PCORI
7 funding helped us -- helped support were webinars
8 for CME, in-person clinician events, physician-
9 authored articles related to PD, and the development
10 and distribution of print and online materials.

11 And for us, this was incredibly valuable.
12 This funding provided resources that we would
13 otherwise not be able to dedicate to be able to try
14 to build that clinician network and encourage that
15 interaction between clinicians and patients.

16 So it's extremely positive, and it was a
17 game-changer for us in helping to kind of jump start
18 our clinician outreach network. And generally, the
19 experience through this funding with PCORI was
20 incredibly positive.

21 Our program officer was thorough, very easy
22 to reach, incredibly helpful, was proactive in

1 making sure that if we seemed confused about
2 anything, was there, et cetera. So it was a great
3 interaction with the team who was assigned to help
4 sort of steward and administer this grant.

5 The templates and the process by which we
6 would submit information or request information --
7 again, incredibly easy to follow, seamless, a
8 really, really positive interaction.

9 The one area that we were a little
10 concerned about and was something that ended up
11 being a larger concern in the second interaction we
12 had with PCORI was more related to the
13 administration and reimbursement process, and the
14 amount of time it took for our staff member, who was
15 a PI of this particular grant, to actually liase
16 with our finance team to be able to get the
17 information to submit on a monthly basis the
18 invoicing for our grant payments.

19 And this was just something that we -- we
20 fund research. So we had a particular way in mind
21 of how we thought it would go. And I think what
22 surprised us in this interaction was just how much

1 time it took both our finance individual, the member
2 of our finance team who was assigned to this
3 project, as well as the PI of this project, to sort
4 these things out.

5 And that could have also been impacted by
6 the fact that we were operating in a period of
7 turnover. And so there wasn't necessarily one
8 assigned person in the finance team. Instead, we
9 were emailing and a general account, et cetera. But
10 it was something that just flagged it for us because
11 we did have issues in that particular area.

12 But by and large, it was again an
13 incredibly positive experience and a game-changer in
14 that it provided funding for us to move into a
15 direction that we otherwise would not be able to.
16 And it was with that really positive experience that
17 we saw there was a request for funding for the PPRN
18 phase 2 program. And so we decided that we were
19 going to apply for that funding. And this was a
20 much larger funding bucket than our clinician
21 research project.

22 And the project that we requested funding

1 for was a study called Fox Insight. And so I'm
2 going to take a moment of your time to just provide
3 a little bit of background on Fox Insight because
4 it's actually quite pertinent to why we ended up
5 declining the over the million dollars that we were
6 awarded.

7 So Fox Insight is an online longitudinal
8 study that is designed to source data directly from
9 patients and control through webinars -- excuse me,
10 through surveys, online surveys, et cetera. At the
11 time of funding or at the time of us submitting our
12 proposal for funding, Fox Insight was already built.

13 It was in beta mode, and we had over 2500
14 participants that were participating in virtual
15 quarterly visits. And we had a subset of
16 participants who are also providing objective data
17 through the use of wearable technology,

18 So we requesting funding, \$1.2 million over
19 three years, to specifically move from our beta mode
20 of operations to an official launch, with the goal
21 of enrolling up to 100,000 Parkinson's patients --
22 that's about 10 percent of the estimated U.S. PD

1 population -- 100,000 U.S. Parkinson's patients and
2 25,000 controls over a three-year time span.

3 We were also anticipating using the funding
4 to help us build the database for this study. We
5 were collecting the data, but at that point in time,
6 we had the goal of making the data available. We
7 had experience with this from another project.

8 So we want to have a real-time open source
9 data portal available for researchers to utilize.
10 And so the funding would help us develop that
11 research portal, do the data curation, et cetera, to
12 make the data available.

13 And lastly, to integrate the Fox Insight
14 study with another online tool that we had developed
15 called Fox Trial Finder, which is what I like to
16 call a Match.com that connects volunteers to trial
17 teams that are looking for them.

18 And so the idea here was if you were
19 providing information about your disease experience
20 on a quarterly basis, and you're able to connect
21 that with Fox Trial Finder, you would be getting
22 matches that would be based on the real-time sense

1 of where you are with your disease and your
2 symptoms. And trial teams will be able to utilize
3 that information to better match and reach out to
4 patients who may be a good fit for the studies that
5 they were running.

6 So we submitted the application, and we
7 were really excited to hear that we were going to be
8 approved for funding. And in setting up this
9 application, we, I think mentioned, requested 1.2
10 million in funding over three years.

11 The funding was -- the PCORI funding was
12 going to support about 45 percent of the time of our
13 primary PI, who is a staff member in MJFF, who was
14 overseeing Fox Insight, and a very, very small
15 percentage of the time of all of our multiple
16 vendors that were basically running the technology
17 and who would be tasked with building the new
18 capabilities and maintaining ongoing capabilities as
19 we did this buildup.

20 Funding was also requested to convene
21 meetings with a researcher and patient advisory task
22 force, and also for site grants, to support minority

1 recruitment into the study.

2 On our end, the Fox Foundation was planning
3 -- we did not include this in a funding request to
4 PCORI -- but we were, in parallel, going to cover
5 the costs associated with all other key personnel in
6 the study, including five staff members and two
7 consultants. And all of this funding would be
8 provided through MJFF donor funds. We were also
9 going to be covered any supply costs that were
10 needed for the study through our donor funds.

11 So PCORI was incredibly generous with their
12 time during the application process. They were
13 incredibly helpful in answering questions, et
14 cetera. And I have to say they were incredibly
15 gracious as well because we sort of threw them a
16 curve ball in the middle of this, where after we
17 submitted our original application, we reached back
18 out and we said, "Hey, we have good news and bad
19 news. The good news is that we have made a lot of
20 progress in bringing on board a new collaborator to
21 Fox Insight."

22 23andMe had agreed to become a co-PI to the

1 study and to provide the ability to SOC genetic data
2 in addition to the phenotypic data that we were
3 collecting through online surveys. So this is
4 fantastic.

5 The bad news is that, uh, can we rewrite
6 our application to bring on board and represent this
7 new collaborator? And PCORI was just really
8 generous, and kind of didn't -- maybe took a deep
9 breath but did not blink, basically, and sort of
10 said, "Sure. This sounds like an exciting new
11 addition to the project, definitely. Resubmit,
12 please. Address the following, et cetera." And so
13 we resubmitted, and as I mentioned, we got funded
14 and we were extremely excited.

15 So I mentioned before that this is the
16 project where we ended up declining the funding.
17 And so this really started with the first step of
18 having the -- working with the program officer
19 assigned with us, who was going to take us through
20 the contracting and the administrative aspects
21 related to this grant.

22 And as he to know us through it, we began

1 to -- concerns began to be raised in that this may
2 not be as straightforward as we thought, given the
3 experience we had with our previous instance of
4 PCORI funding.

5 And concerns fell really -- were bucketed
6 really in three areas. The first were the
7 requirements to comply with administrative oversight
8 of the grant. The second was the time expected by
9 PCORI of MJFF staff to participate in calls and in
10 in-person manages.

11 And the third was the recognition that this
12 study is not being funded wholly PCORI. It's only
13 being funded by a small percentage. The rest was
14 coming from MJFF funding. Yet how do we balance
15 that with the overwhelming weight of decision-making
16 that was coming with the PCORI funds?

17 And so let me dive a little bit deeper into
18 three of these buckets to explain where our concerns
19 -- what was concerning about these three particular
20 areas.

21 So in terms of administrative oversight, so
22 I had mentioned earlier that the previous grant was

1 a great experience. We did notice, however, that
2 our PI was on the phone a lot with the PCORI grant
3 manager. And there were a lot of check-ins, there
4 were a lot of report submissions, et cetera, and
5 that we were having a lot of time spent on
6 particularly the financial reconciliation of things.

7 When we began to see what the
8 administrative oversight was of this particular
9 grant, we recognized really early on that our PI,
10 the main person running this study, could not do
11 that in addition to actually running the study. She
12 was incapable of it. It was just not possible.

13 And it's not because she did not have great
14 bandwidth. Fox Insight was just one thing. She
15 also managed Fox Trial Finder and oversaw our
16 clinical recruitment activities. The reality was it
17 just wasn't feasible for any one person who had a
18 percent effort on Fox Insight.

19 And so we had to get really creative about
20 how we could potentially manage the time and the
21 administrative and the reporting, et cetera. And
22 when we calculated it, we realized that across the

1 teams, it was -- if we thought about who would have
2 to be involved, it was about \$150,000 a year of
3 staff time, or a little bit over one FTE, just
4 required to comply with the administrative
5 oversight.

6 And considering that we were being provided
7 \$480,000 a year in funding through this particular
8 great, it was beginning not to make sense
9 financially to receive this grant.

10 So the second issue was related to time
11 expectation. We received news of the funding
12 approval in August, and as we were on boarded, we
13 received a meeting schedule that outlined
14 expectations of in-person attendance for meetings
15 between September and December, so a four-month time
16 span.

17 And the expectation was that the co-PI, our
18 CEO, and our PI, our staff member, our project
19 manager, were expected to participate in these
20 meetings. These were five meetings over four months
21 that comprised nine days out of the office.

22 From our perspective, we just could not

1 justify that amount of time spent out of the office
2 for, again, one project out of many in our portfolio
3 and where our staff were only spending a percentage
4 of time on that particular project. It just wasn't
5 sustainable for us. It was really about the
6 opportunity cost of this project under requirements
7 versus what it was going to do to our other projects
8 in our portfolio.

9 The last bucket has to deal with the
10 discrepancy between the funding and then the
11 decision-making of Fox Insight as a study. And
12 earlier I provided a little bit of detail about
13 PCORI funding versus MJFF funding.

14 So basically, PCORI funding was providing
15 less than half of what we needed to run Fox Insight
16 from an annual perspective. And that included not
17 just the direct study aspects, but it also included
18 all of the tangential but incredibly important
19 things related to marketing and communications for
20 recruitment, related to the administrative bits,
21 related to technology aspects, et cetera, statistics
22 -- everything related. Not any of that was really

1 being covered by PCORI funding.

2 And PCORI had a lot of processes or a lot
3 of governance in terms of how things had to be
4 approved before you could move ahead. And while we
5 didn't, in principle, have problems with the
6 criteria that were being applied to the project,
7 that's part of why we applied, because there was
8 great insight and knowledge to be gained from an
9 organization that was focused on patient-centered
10 research.

11 The reality is, much of this project was
12 being funded by external donors. And our donors had
13 an anticipation that we were going to move as
14 quickly as possible. And when we overlaid our plan
15 versus when and how you had to provide information,
16 get it reviewed, get it approved, get the okay to
17 move ahead, it didn't jibe with our timeline.

18 And so we realized very quickly that it was
19 not going to allow us to move ahead on the time
20 frame that we were expecting. And with 23andMe
21 coming on as the new collaborator, we also had added
22 pressure to be able to integrate that very quickly

1 as another partner, who is providing me sources, to
2 integrate that quickly to move ahead. And that
3 didn't look like we were going to be able to balance
4 that. So that was a third area that raised
5 concerns.

6 I will flag here that we were very
7 transparent about these concerns with PCORI staff
8 and leadership. And they consider incredibly
9 understanding. They provided contact information of
10 awardees so that we could hear firsthand the
11 experiences of other awardees to understand whether
12 our concerns were legitimate or not. They were
13 really great at having multiple conversations at all
14 levels of the organization to try to provide clarity
15 and to try to problem-solve around some of the areas
16 that we were flagging.

17 So I do want to sort of state here that
18 while maybe the end result was disappointing for
19 both of us, the entire process was an incredibly
20 collaborative and very positive experience in that
21 everybody was trying to problem-solve here and find
22 the solution.

1 And I think that was, again, something that
2 just reinforced to us that there was great value in
3 trying to figure out how we could really take the
4 time to figure out how we could potentially move
5 forward.

6 But at the end of the day, we just couldn't
7 make it work, and so we ended up declining funding.
8 And I think that our decision to decline funding is
9 really based on the uniqueness of the fact that it
10 was already bill It wasn't being built. It wasn't
11 an idea. It was built and we had funds already for
12 it.

13 And we as an organization could actually --
14 it wouldn't be great to leverage other funding and
15 get that added knowledge into it. But if we had to,
16 we could also still fund it on our own. And so I
17 think we are unique in that, when I think about the
18 other organizations that we spoke at this, when we
19 went through this due diligence process to
20 understand the challenges that we were identifying.
21 And so I think that's something to bear in mind.

22 And you may ask, "Well, if your study was

1 already launched and you could fund this on your
2 own, then why did you actually apply?" And I think
3 that it's really important to understand why we
4 applied.

5 First of all, like any organization, we
6 want to be able to leverage other dollars out there
7 because it means that our colors could then be
8 applied elsewhere. And we felt that Fox Insight was
9 a great fit in the mandate, in the culture, in the
10 philosophy of what PCORI was doing.

11 Secondly and perhaps more importantly, we
12 believed it would be amazing to make sure that Fox
13 Insight was part of that homework, to be able to
14 provide the insight and the experiences we were
15 having in building this online study, with the
16 experiences and insight that other groups, awardees
17 of this, were going through as they were building
18 their networks and their studies, et cetera.

19 There is nothing greater as a nonprofit
20 when you have limited resources than to be able to
21 gain that real-world, real-time knowledge as you're
22 doing it, and be able to avoid the redundancies,

1 mistakes, or apply the lessons learned that others
2 have done.

3 And that was incredibly valuable for us
4 because we were doing something in the Parkinson's
5 arena that no one had done before, and other groups
6 were doing it in other disease indications that were
7 in some cases more advanced than nus; but in other
8 cases, we might be able to share our experiences
9 with them and help them avoid some of the pitfalls
10 as we built this technology in this study.

11 So that was really the critical aspect of
12 why we were seeking PCORI funding. And finally,
13 there is also validation. People talked about
14 getting there MJFF seal of approval, if you get MJFF
15 funding.

16 Well, it works also for the foundation.
17 There is real value add for us to be able to say,
18 "Hey, we are a patient-focused organization, and
19 this study is about sourcing data directly from
20 patients. And look, we were able to get PCORI
21 funding." And that is also really valuable. Again,
22 it speaks to the brand and the meeting that

1 underpins what PCORI has built over all these years.

2 And so while we had positive experiences in
3 terms of the funding we received, and in one case we
4 were not able to move ahead with funding, by and
5 large I think what I would underscore here is that
6 yes, there is improvement in the process of how
7 perhaps grants are administered and issued.

8 But the essentials of what PCORI's doing,
9 the philosophy in the staff in how they approach
10 teams, has been unbelievably positive in all
11 interactions. And so from our standpoint, there's
12 incredible value to still try to figure out how we
13 could potentially work with PCORI going forward.
14 Thank you.

15 CHAIRMAN NORQUIST: So Gail, I'm going to -
16 - Gail, I'll let you run the discussion.

17 MS. HUNT: Yeah. I was going to do that.
18 I wanted to take the prerogative of the moderator
19 here and ask Bari, you mentioned the fact that you
20 thought, going forward, we ought to think about
21 better innovative project design, that rather than
22 perhaps doing things the way that PCORI had funded

1 the projects in the past, we ought to have more
2 innovation.

3 Could you talk a little bit more about what
4 you meant by that?

5 MS. TALENTI: So let's add to the fact that
6 I have the JD after my name, not a PhD or an MD. So
7 take that with a grain of salt.

8 But, I mean, we're looking in --

9 [Laughter.]

10 MS. TALENTI: That depends who you ask.
11 But I'm happy to be among my friends here.

12 CHAIRMAN NORQUIST: With salt. With salt.

13 MS. TALENTI: So we're looking at lot in
14 the MSBs around innovative trial design and
15 alternative trial design. And part of that is what
16 people with MS are telling us, and part of that is
17 what came out through a lot of the PCORI
18 conversation.

19 So, because we're footnote and I'm asked, I
20 think, to have a number of disease-modifying
21 medications, we're almost onto that next wave of
22 questions that people with MS have.

1 So some of that can be, okay, so which
2 disease-modifying medication is going to have any
3 impact on my cognition? What's going to protect my
4 grain matter and brain volume? That's a big part of
5 the next wave of conversations around MS. Are any
6 of these medications going to help with my fatigue?

7 So those are some examples of adding
8 different questions onto trials that we don't yet
9 have the answers to; but also look at, are there
10 shorter ways to do a trial that we can get to some
11 of those answers?

12 And I think, for a lot of it -- some of it
13 around that testimony link, and I don't think we
14 have the answer as to how to get there. But an
15 organization like PCORI could run pilots and help
16 figure out, for the entire community, about how to
17 shorten that time frame.

18 What are different ways of looking at
19 things? How do we look at those comparisons of
20 treatment differently? And the comparative trials
21 are going to be a little different than the
22 traditional trials at the FDA is looking at.

1 So I think there's a little bit more leeway
2 there to experiment and innovate, to try and find
3 the shortest time frame to get to the answers that
4 people living with these diseases are really looking
5 for.

6 MS. HUNT: Yeah. So I'm going to throw it
7 open to other board members. And Ellen, you're up
8 first.

9 MS. SIGAL: Well, first of all, I want to
10 thank both you. Extraordinary work and great
11 presentations, and much to be very proud of.

12 So Bari, one of the things that
13 specifically, I wanted to ask you is at Friends, we
14 work on regulatory issues in terms of clinical trial
15 designs. And we've been leaders in this field, and
16 often are very frustrated both with the NIH and with
17 the FDA, although this has been changing pretty
18 rapidly.

19 But there are new initiatives, and I know
20 there's a lot in cancer, so I really don't know what
21 there really is in MS, but patient-centered trial
22 design and innovation in trials and patient-centered

1 trials.

2 Have you been working with them on some of
3 these issues? Because it's very important. As you
4 know, the metrics begin to be completely measure.

5 MS. TALENTI: Yes. And thank you for that.
6 We are working with the FDA on those issues. We
7 were instrumental weighing in on a lot of pieces of
8 the 21st Century Cures Act and are following those
9 through and weighing in on the regulatory
10 opportunities and talking with the agency.

11 We've seen more innovation and more
12 willingness to innovative in cancer, probably for a
13 lot of reasons than in MS -- some of it is probably
14 terminal versus a lifelong illness, so you have
15 that. Some of it, I think, is just the disease
16 course itself or the standards that have come to be
17 within some of the trial designs that we see.

18 We are very much interested in working with
19 the agency on some of those alternatives. And the
20 MS Society was involved with some initiatives called
21 Mosaic, and I'm never going to remember what it
22 stands for, but it's around different outcomes for

1 trials. And a package has been submitted to the FDA
2 to consider a some other things that look beyond
3 just the EDSS scale that I mentioned.

4 So that's one example of we're trying to
5 get some of the science to match up with what people
6 are interested in and what we've learned about the
7 disease over time, so that EDSS is looking
8 specifically, really, at physical disability.

9 And what we know from people with MS and
10 what we know from, now, more experience with the
11 disease is that while people certainly encounter
12 physical disability as a part of the disease
13 progression, they're also encountering cognitive
14 challenges and cognitive disability. And that's
15 currently not measured anywhere in a traditional
16 clinical trial. So that's one example.

17 And one of the pieces that has been
18 submitted or will be submitted soon to the FDA is
19 looking at a standard for measuring cognitive
20 disability. But that's just one example of how
21 we've learned about the disease over time. People
22 are also asking different questions about the

1 disease. And we need to change up in the scientific
2 and each community to that.

3 MS. SIGAL: I just will say Janet Woodcock
4 is extremely interested in it. And in cancer, we
5 have really experts. I don't know what exists in
6 CDER on these issues. But it is really important,
7 and I know they're moving quickly on it.

8 And I just have one more brief question,
9 and I don't want to dominate. One of the issues
10 that frustrates me with this entire field is the
11 bureaucracy, whether it's at NIH or even at the FDA.
12 And even sometimes we're trying not to be, but we've
13 created our own.

14 The ability to really move past that
15 towards outcomes that really matter are really
16 important, and we need to really look at these
17 things very carefully. So I'm saddened by the
18 story, but I think that we at PCORI have to look at
19 our prostheses and how to change them and to make
20 them a little bit more flexible, depending on the
21 disease situation and the groups we're working with.

22 So I hope this is a good learning

1 experience for us. But thanks for your work.

2 MS. HUNT: Mike?

3 DR. LAUER: Thanks, Gail. So I'm Mike
4 Lauer. I'm on of the deputies at records at NIH.
5 This is a great story, so thank you for sharing the
6 story with us. And I want to thank PCORI leadership
7 for giving us the opportunity to hear this story.

8 So we get it from both ends. On one end
9 we're told that our grant oversight is way too lax,
10 and whenever something bad happens, which invariably
11 it will, it's because we were asleep at the wheel.
12 So that's one side. And then on the other side, we
13 certainly have heard stories like yours before, that
14 we're way too unsure, said that we're taking up way
15 too much time, that there's a lot of unnecessary
16 administrivia. So help us through this a little bit
17 further. I'm echoing what Gail just said.

18 MS. CHOWDHURY: Yeah. It's a great
19 question. And of course I think there's recognition
20 that PCORI funding is coming from taxpayers, so
21 there has to be more stringent oversight, perhaps,
22 than our -- or perhaps I shouldn't say "stringent."

1 That's the wrong word.

2 The needs of oversight, perhaps, are
3 different than it may be for a private foundation or
4 whatever it may be. I think what I would say is
5 that if I look back on that, and I was looking at my
6 notes and all the email correspondence and
7 everything that happened August 2015 as I went
8 through this -- and the CEO and I are actually the
9 only people left at the organization who lived
10 through this.

11 And so it was an interesting time to go
12 back at that. And I think my takeaway is
13 flexibility in understanding where a project is that
14 is being funded by PCORI.

15 And again, I think this is what I would
16 underscore, is that when we spoke with the groups
17 that PCORI staff put us in contact with, and when we
18 looked and heard about the other projects that were
19 being funded through the PPRN, most of them were in
20 very, very early stages. And the funding from PCORI
21 truly was funding to make that project happen.

22 And I think that the oversight of that

1 entire program was built under the assumption that
2 PCORI funding was going to be the seed funding to
3 generate that. And as a result, the level of
4 oversight in when key decisions would happen, how
5 they would happen, who had to feed into it, et
6 cetera, were structured in that manner.

7 I would say that the answer is not
8 necessarily taking away oversight. It's about
9 applying flexibility as to the stage of project and
10 when it receives funding. A study that already
11 exists, that have people enrolled, that have an IRB
12 that people consented, where data are being
13 collected, is extremely different in terms of the
14 decisions you can apply or how you apply it on an
15 ongoing study versus a study that hasn't even been
16 formulated.

17 So I think that that lack of flexibility in
18 terms of thinking about a project or a study that is
19 over here, with consented individuals already
20 providing data, versus something that just has a
21 project design or a protocol synopsis, and not see
22 in that, that's probably to focus on and to think

1 about, how do you change or how do you adjust the
2 way that you solicit information from your awardees,
3 and where you get involved and the time frame for
4 that, probably needs to be different on both sides
5 of the spectrum.

6 And that's how I would tackle the issue, as
7 opposed to a general statement saying, "There should
8 be less oversight." Because the oversight's
9 important.

10 MS. HUNT: Larry?

11 MR. BECKER: Thank you very much. Those
12 Were terrific presentations.

13 So as you know, we have literally hundreds
14 of projects, and I'm going to take on MS. Okay??
15 So we have projects in MS. And my real question is:
16 Since the MS patients are your audience, and we're
17 going to have results from the various projects.

18 What's your process to help us to
19 disseminate and ultimately implement at the results
20 from these research studies?

21 MS. TALENTI: That's an exciting think to
22 think about. And we've done some things before.

1 We've done sine heart blog posts before between
2 PCORI and the National MS Society. So that's one
3 avenue for getting information out.

4 But I think as a patient advocacy
5 organization that's very familiar and works in the
6 research space, we numerous communication vehicles
7 that would help to provide that sort of thing. So
8 we have quarterly newsletters and magazines. We
9 have a website that gets about 700,000 hits a year.
10 Is that right? A year.

11 We have MS Navigator system, which is
12 people who reach out to the MS Society for
13 information, services, referrals, case management if
14 needed, that got about 10,000 calls or web chats,
15 web requests, in in the last quarter. So we're
16 reaching a lot of people with MS that provide that
17 way to get that information out to them.

18 I think that there's a few things to think
19 about with the types of information and the types of
20 research that PCORI is doing. And one is about
21 getting the information back to the patient, to the
22 people with MS. And we're certainly poised to weigh

1 in on that.

2 But I think the other piece of it is more
3 tied to the population health side of it. And how
4 do we take the information from the PCORI-funded
5 research and apply it to the health system and
6 better health outcomes for people with MS because
7 certainly what we see is that we have a big focus on
8 shared decision-making now in our health system.

9 And I was telling Joe I was at the American
10 Academy of Neurology meetings all last week, and
11 there were lot of conversations around shared
12 decision-making. And what I keep saying back is, we
13 want people with MS and their healthcare provider to
14 have those conversations together and to talk
15 through what the possibilities in their care are.

16 But what I don't want to see happen is they
17 reach a decision together. The person with MS feels
18 really good about that. And then they find out from
19 their health insurance that they can't go down that
20 avenue for some reason.

21 And so that's why I think we need to think
22 about: How do we take the information that we learn

1 from the PCORI-funded projects and both get them out
2 to the people living with the situation, but also it
3 informs the health system and the decisions that are
4 being made there. And that's work that we're start
5 as well.

6 MS. HUNT: Barbara?

7 DR. McNEIL: Thanks. Fabulous
8 presentations. I learned a lot from both of them.

9 I have one question, I guess, for Joe and
10 maybe the staff. You raised the issue, and I think
11 that Ellen raised it as well -- or Gail did, rather,
12 the post chills for different kinds of experimental
13 designs with regard to and including -- or basing
14 your results on short-term -- up comes like fatigue.

15 And I'm wondering -- we've talked about
16 this a lot, Joe. And we know that from the cancer
17 community there have been a lot of studies that have
18 used good outcomes that have a way to not come to
19 pass. Some have and some haven't. And this has
20 happened in a number of other disease states,
21 cardiology and cancer for sure. Sometimes they work
22 and sometimes they don't.

1 I'm wondering if this isn't the time for
2 PCORI to solicit a review or a nice comprehensive
3 study or short-term outcomes. And maybe they're
4 fine, but it worries me sometimes if you have a good
5 short-term outcome on something or other that is
6 diametrically opposed to a long-term outcome, that's
7 not good.

8 So this is just a suggestion that you might
9 think about contracting with somebody to do a very
10 thorough analysis across publications, multiple
11 disease -- multiple disease states. And Ellen would
12 clearly know where all the cancer data are.

13 So that was relating to your first point.
14 And the second point relates to Sohini's point about
15 the overhead. And I guess I was taken aback by -- I
16 can't remember whether it was seven meetings or nine
17 meetings by two people in a period of five motions.

18 So is that common, Joe? And is there
19 something that you can do as a result of this
20 experience to stimulation that kind of overhead?

21 SPEAKER: "Overhead" with money.

22 DR. SELBY: Yeah.

1 [Laughter.]

2 MS. HUNT: It's overhead on her end and
3 oversight on their end.

4 DR. SELBY: I think the meetings Sohini was
5 talking g about were meetings -- PCORnet meetings.
6 So this was -- the notion was that we were looking
7 for networks to join PCORnet. And as Sohini said,
8 she had a project that was well along that didn't
9 have anything to do with PCORnet, and we want trying
10 -- we wanted to shoehorn it into PCORnet because we
11 wanted Michael J. Fox Foundation there and
12 Parkinson's represented.

13 But, I mean, that was one of the main
14 things people did in building a network is get on
15 the phone and talk with each other. And she had a
16 whole list of things that their project had to do
17 back home, and there wasn't room for both.

18 So if that makes sense you, Barbara, we
19 were bent mostly on building the network. And it
20 did take some meetings.

21 MS. CHOWDHURY: No, hold on. I'm sorry. I
22 missed a beat there. So this would -- the reason

1 for all of these meetings was to get her --

2 MS. CHOWDHURY: No. They were two. It was
3 the core net as well as the onboarding of the
4 boardees into this structure. And so it was five
5 meetings that comprised nine days over four months.
6 And I think that that was our other thing that was
7 very hard, is that the value of being part of this
8 was being part of the network.

9 But we could not justify the time where we
10 were based on doing that. It didn't work. Somehow
11 we could not figure out a way to make this work very
12 well. The onboarding in and of itself, I would say,
13 also was extensive. It was two days. It was full-
14 time.

15 So, I mean, it was just, in general, the
16 entire kind of thing. When you looked at it as an
17 awardee. As one aggregate level of expectation of
18 engagement, we just could not justify it.

19 MS. HUNT: Yeah?

20 DR. FERNANDEZ: Thank you both. That was
21 really fantastic presentations. And I've listened
22 really carefully, and hope that we can continue to

1 talk about these things, and specifically, talk
2 about the administrative opportunities and burdens
3 for awardees, and also to talk a little bit more
4 about short-term outcomes, though that is really a
5 hard nut to crack, and in a certain way be better
6 served under a foundation than under the type of
7 scenario that PCORI does.

8 But all I'm saying is that it's difficult,
9 but it's hugely important. And I think you're very
10 aware of how difficult it is. I say this because I
11 really have been listening carefully, and look
12 forward to taking what you're saying to further
13 discussions within PCORI.

14 So perhaps it's okay if I ask the following
15 question of you two, which give us is: What advice
16 would you give us on how to engage your
17 organizations and organizations like yours in the
18 PCORI reauthorization process?

19 MS. TALENTI: I think we've been having
20 some conversations with PCORI staff for some time,
21 and I think we would welcome further conversations
22 about that. I think we believe that a spectrum of

1 medical and health outcomes research is needed to
2 find solutions for people, and that we clearly see
3 that PCORI has a role within that spectrum.

4 So we would support efforts towards for
5 authorization, and we would look at how that fits
6 within our advocacy work across the spectrum of
7 medical research.

8 But currently, the National MS Society
9 advocates for funding for NIH research program
10 through the congressionally directed Medical
11 Research program, funding for a surveillance system
12 for neurological disease conditions.

13 We've advocated previously for the Agency
14 for Healthcare Research and Quality, which probably
15 most closely aligns with some of work that PCORI
16 does. So I think we clearly see how the PCORI work
17 fits within the spectrum, and would welcome further
18 conversations about that and how we could be
19 helpful.

20 MS. CHOWDHURY: So the Michael J. Fox
21 Foundation just added public policy to its portfolio
22 about a year and a half ago. And so I would

1 certainly say that some learned to -- the MS
2 Society, we are strong advocates for funding, for
3 increased funding. And I think in this particular
4 situation, I had discussed it over lunch.

5 I think, if you take aside all of the
6 funding and the support of projects that PCORI has
7 given all these years, and you just talk about the
8 impact that PCORI has had in making patient
9 centrality in research, patient engagement, a
10 cornerstone now; and when we talk about medical
11 research, that in and of itself is huge.

12 I think that we now no longer -- it is no
13 longer -- people don't look askance when we talk
14 about patient engagement at the same time as talking
15 about drug development. And that is partly due --
16 in fact, it's, I think, due a great deal in fact, to
17 PCORI and to the efforts of normalizing this concept
18 of patient centrality in drug development and
19 medical research.

20 And so, from our perspective, I think the
21 work that PCORI does is invaluable. I think we,
22 too, would welcome discussions as it becomes closer

1 to the time frame to understand what PCORI is doing
2 for reauthorization, and to understand what sorts of
3 assistance or information we can provide with that
4 process.

5 MS. HUNT: Well, thank you very much,
6 ladies. This was -- oh, I'm sorry. He must have
7 just --

8 CHAIRMAN NORQUIST: Right. Russell. We'll
9 let Russell have the last -- no, she's already --
10 Barbara's already --

11 MS. HUNT: Barbara's already spoken. So go
12 ahead. I didn't see you, Russell. You must have
13 just cropped up recently.

14 DR. HOWERTON: Bari, one question. You had
15 mentioned that PCORI was much more receptive to
16 patient feedback in study design than some other
17 funders you've worked with? Does your organization
18 or you yourself carry any walking around
19 specifically as to changes to investigatory protocol
20 that came about as a result of that previous input?
21 I think that would be very useful to us as a group,
22 if we could cite very specific examples.

1 MS. TALENTI: I think the specific examples
2 I could share now would be that the attention to
3 really answering the question is that people with
4 MS, people living with the disease, are asking.

5 And while that's not specifically about a
6 trial design, I think it was an anomaly when PCORI
7 started doing its work. So a lot of the work that
8 we would see in MS was very focused on disease-
9 modifying treatments, a focus on more of what is
10 sometimes referred to as the hard science.

11 And the questions that we were hearing over
12 and over from people with MS were: Which disease-
13 modifying treatment do I start on? How am I going
14 to manage my fatigue? What can I do about pain?
15 And those were the types of things that PCORI has
16 been more than willing to listen and understand the
17 actual experiences living with a lifelong chronic
18 disease, and to find new types of answers.

19 DR. HOWERTON: Thank you.

20 MS. HUNT: So anybody else?

21 [No response.]

22 MS. HUNT: Well, thank you. These were

1 wonderful presentations., really

2 CHAIRMAN NORQUIST: Thanks, Gail, for doing
3 the panel, and thanks to our presenters, too.

4 [Applause.]

5 CHAIRMAN NORQUIST: So the next item on the
6 agenda, the Cycle 2 slate from the -- what is it,
7 the Pragmatic Trials, I think? So I think Christine
8 Goertz is our selection committee children, and
9 Evelyn, are you --

10 Okay. So thanks -- where's Bob?

11 DR. GOERTZ: I'll let Evelyn come up and
12 get set up. We actually have three slates that
13 Evelyn is going to be presenting today.

14 CHAIRMAN NORQUIST: Yeah. I just need to
15 go on by each one because some people are recused
16 from different ones.

17 DR. GOERTZ: Right. No, I understand.

18 CHAIRMAN NORQUIST: So on the first one,
19 Larry Becker, Michael Lauer, and Bob Zwolak are
20 recused from the pragmatic clinical study slate.
21 Okay.

22 DR. GOERTZ: Great. Thank you. So with

1 our pragmatic clinical trials slate this round, as
2 you'll see when Evelyn starts presenting, we got
3 pretty darn close to the targeted budget amount for
4 these particular grants for the proposed award.

5 That did not -- that's not necessarily true
6 for the other two slates that you'll be looking at
7 today. That may be a conversation that we want to
8 have when Evelyn is done with these three
9 presentations.

10 I'll turn it over to Evelyn, then. Thank
11 you.

12 DR. WHITLOCK: Thank you -- can you hear
13 me? Oh, okay. Thank you, Christine.

14 So I'm going to -- just for this pragmatic
15 clinical studies slate, I'm going to read to you the
16 merit review criteria. And then we will -- they will
17 be the same for all of the slates.

18 So just to remind you, our programmatic
19 clinical studies, and all of our merit review, looks
20 at six criteria carefully through the merit review
21 process.

22 The first is the potential for the study to

1 fill critical gaps in the evidence.

2 The second is the potential for the study
3 findings to be adopted into clinical practice, and
4 to improve care delivery.

5 The third is the scientific merit
6 considering research design, analysis, and the
7 outcomes to be measured.

8 The fourth is the investigators and the
9 environment.

10 The fifth is that patients entered in this.

11 And the sixth is the patient and
12 stakeholder engagement in the application.

13 For Cycle 2 of 2017, the pragmatic clinical
14 studies announcement received 54 letters of intent.
15 We invited about half of these to submit full
16 applications, and we received about two-thirds of
17 the applications invited.

18 So we got 16 full applications. Out of
19 that, we are bringing to you today five
20 applications, which is a funding rate of about 31
21 percent. So this is a really good funding rate for
22 recent experience, and we're very pleased about

1 that.

2 I'm going to give you the overview of the
3 five projects together. And then I will talk
4 through each of these in a little bit of detail so
5 that you understand them better. And just to remind
6 you, these have all been through merit review.
7 They've all been through methodology consults.
8 They've all been through discussion at the selection
9 committee. And these are all recommended for
10 funding for the full board by the selection
11 committee.

12 The first project, which is bolded, is
13 bolded because it is a resubmission. And it is
14 looking at family-centered approaches to childhood
15 obesity treatment, a very important issue for
16 families and for children.

17 The second is comparing two different
18 medication approaches for a rare disease, pulmonary
19 mycobacterium ABM complex disease.

20 The third is looking at individuals with
21 serious mental illness, and various ways of
22 supporting them when they also have medical

1 comorbidities as well.

2 The next one is to look at very pragmatic
3 and efficient ways of improving access to tobacco
4 cessation services at the statewide level for
5 underserved patients in federally qualified health
6 centers.

7 And finally, we have a comparison, a head-
8 to-head comparison, of two formats for evidence-
9 based treatments using cognitive behavioral therapy
10 for children and adolescents with anxiety.

11 The first project, as I mentioned, is a
12 resubmission. It's a \$13.9 million study looking at
13 the comparative effectiveness of two recommended
14 approaches to the treatment of obesity in children.

15 The first is an initially intensive family-
16 centered approach to addressing obesity, and the
17 second is a more staged approach. And the study
18 will be looking at the impact on weight among
19 children, and also the weight of the parents, in
20 underserved families in a primary care setting.
21 Children ages 6 to 15 and their parents are
22 eligible, and as I mentioned, there's a emphasis on

1 low-income families.

2 I mentioned already what the two
3 interventions are. And the primary outcome will be
4 focused on the reduction in weight of both the child
5 and the parent. But there are important secondary
6 outcomes such as quality of life, mood, coping with
7 bullying, and cardiometabolic outcomes because we
8 often see that these children experience premature
9 elevation in blood pressure, in their lipid levels,
10 and even problems with glucose tolerance.

11 This is a two-armed randomized, controlled
12 trial. It's a large sample size, 1296 child and
13 parent dyads divided between the two arms. The
14 active intervention will be 12 months, and we will
15 be following these children and their families over
16 an 18-month period.

17 This is an important study to deal with
18 this problem that continues to grow in the United
19 States. It will allow patients, primary care
20 providers, and health systems to understand what is
21 the most effective and efficient way to approach
22 obesity treatment for children and their families.

1 It may also help clinicians and payers understand
2 the different resources requirements related to
3 these different approaches.

4 Obviously, it is targeting a population
5 that is much affected by the condition of obesity,
6 but often is under-accessed in terms of treatments.
7 So low-income and minority children are the focus.
8 And the importance of the outcomes, particularly the
9 secondary outcomes but also the primary outcomes,
10 have been endorsed by those that will be affected by
11 the research.

12 There are advisory panels mentioned here
13 that will be involved across the study and will be
14 important for the dissemination of findings. As you
15 know, there are guidelines around how to help
16 clinicians and families and young people deal with
17 this condition, so this information will be very
18 applicable to practice.

19 The second study is looking at two
20 different approaches to multi-drug treatment for
21 pulmonary mycobacterium ABM complex disease. As I
22 mentioned, this is a rare disease, but an important

1 disease. It will look at adults that are culture-
2 positive for this type of disease, but that have not
3 developed cavitation in their lungs, or areas of
4 infection in their lungs shown by a cavity. And
5 they cannot have been treated in a prior way, so
6 that we get people who are new to treatment.

7 We will be comparing -- or, I'm sorry, the
8 study will be comparing two different antibiotic
9 regimens, one a two-drug antibiotic regimen, listed
10 here; the second is a three-drug antibiotic regimen,
11 which is currently often what is the treatment of
12 choice. So what people are interested in is whether
13 the two-drug regimen, which may be more easily
14 tolerated, will be as effective or non-inferior to
15 the three-drug regimen.

16 The primary outcome therefore will look at
17 what is a culture of material from the lungs as 12
18 months, and is that -- does that show no evidence of
19 the infectious agent? And we will also be looking
20 at the tolerability of therapy. Secondary outcomes
21 are listed here, including health-related quality of
22 life, adverse event rates, and development of

1 antibiotic resistance.

2 This will be a multi-site, randomized,
3 controlled trial. It is necessary, because it is a
4 rare disease, that it's recruiting a robust sample
5 to be able to answer this question. The duration of
6 the treatment is 12 months, and patients will be
7 followed up for at least 12 months. And the cost is
8 \$6.2 million.

9 This is thought to be capable of providing
10 the most definitive evidence that could be available
11 for informing the evidence-based treatment of this
12 disease. And as I said, because it's expected that
13 the two-drug regimen will be better tolerated, this
14 evidence could be very helpful for people in being
15 able to both adhere to the long-term treatment
16 that's necessary and that would be also effective.

17 And this actually came out -- this
18 particular question came out -- of a PCORI
19 engagement award. So it shows the input of the
20 engagement award process into research project
21 development. There's a patient advisory panel and
22 other study advisory panels of those that will be

1 affected by the research. And there are
2 partnerships in place for the dissemination of the
3 results.

4 The third project addresses a seriously
5 burdened population, those with chronic mental
6 illness or serious mental illness who experience, on
7 average, a 25-year decrement in life expectancy.
8 And this will look at, among adults age 18 and older
9 with a serious mental illness diagnosis and one
10 other poorly controlled medical condition, what is
11 the comparative effectiveness of two different group
12 approaches to helping these individuals manage their
13 own health more effectively?

14 So this will compare the effectiveness of
15 the integrated illness management recovery program
16 with a well-established chronic disease self-
17 management program. These two programs are
18 equivalent in the amount of intensity of the
19 interventions, but are different in that they are
20 led by different types of clinicians or, in the case
21 of the chronic disease self-management, with some
22 tier support.

1 They also have different types of
2 intervention. The integrated illness management
3 recovery is 16 weeks of one-hour sessions with two
4 up-front boosters, whereas the chronic disease self-
5 management is over six-week program with longer
6 duration. So they're different in content. They're
7 different in how they are led. And they're
8 different in the way that they are packaged.

9 The outcomes will be looking at the impact
10 primarily on the ability of these individuals to
11 manage both their physical and mental illnesses, as
12 well as a measure called patient activation, which
13 correlates with self-change and health behavior.

14 Secondarily, this study will look at
15 physical and emotional health, and will look at
16 surrogates of wellness, which relate to the use of
17 the emergency department as well as hospitalization.
18 This is a randomized, controlled trial, although it
19 will employ mixed methods as well to get at some of
20 the experiences that the individuals will have.

21 The sample size is 600, the length of
22 follow up is 12 months, and it's a little -- about a

1 \$7.5 million study.

2 As I mentioned, because of the known
3 decrement in life expectancy suffered by these
4 individuals, ways to engage them in managing their
5 physical health as well as their mental health could
6 make a real difference in the quality and the
7 quantity of life. It is an area of disparity for
8 people with serious mental illnesses, and is
9 responsive to stakeholders' interests and programs
10 that will help with self-management around both
11 physical and mental well-being.

12 There is a national advisory panel that
13 includes the individuals that are affected, and also
14 family members. There's a stakeholder advisory
15 group that also includes peer support leaders. And
16 there's interest at the state level as well because
17 of many of the burdens of these follow-on state and
18 local health plans in communities. So this is an
19 important study that could really help a group of
20 individuals that suffer disproportionately.

21 The fourth project is looking at a -- using
22 a smart design, looking at how we might efficiently

1 and effectively, through federally qualified health
2 centers, connect people with state resources in
3 smoking cessation. So this study will look at the
4 impact of what would be considered very pragmatic,
5 sequential, scalable interventions that are aimed at
6 the clinic, but also at the individual patient, to
7 reduce tobacco use and tobacco-related disparity.

8 Individuals who are receiving their care in
9 participating federally qualified health centers in
10 a state and who smoke cigarettes and are 18 years
11 are older, and who speak English or Spanish, will be
12 eligible.

13 It is a three-phase smart design with four
14 active interventions, each increasing, all quite
15 small in intensity but each increasing if there is
16 failure to respond to an early intervention.

17 The outcomes of interest will be the
18 proportion of patients who enter quit-line
19 treatment; smoking abstinence at 12-month follow up,
20 including a sub-sample with biochemical validation;
21 and the impact on health-related quality of life.
22 And there will also be process evaluation of the

1 implementation of the system-level interventions
2 that will be going out to patients.

3 It's an ambitious study. Thirty federally
4 qualified health centers will be involved, with an
5 anticipated enrollment of 6,000 patients. The
6 duration of the active intervention depends on if
7 the individual has responded because once they have
8 responded, then they are no longer receiving the
9 active intervention, so it's 6 to 12 months, going
10 to follow up at 12 months. And it's a \$9.8 million
11 study.

12 We all know that the burden of tobacco-
13 related illness is disproportionately now
14 concentrated in those in lower SES populations, and
15 that quitlines can bring both counseling as well as
16 biochemical resources to bear.

17 So this is a pragmatic study to look at
18 improving the reach of evidence-based treatments to
19 the population most at need. And because it is
20 trying to work with people in increasing
21 opportunities, then the patient focus, we feel like,
22 is strong and has been designed with input from

1 patient representatives from quitline experts and
2 from folks across the state.

3 Finally, the fifth project is looking at
4 the comparative effectiveness of two different
5 modalities of delivering evidence-based treatments
6 to children and adolescents who have anxiety in
7 pediatric primary care. This is a very pragmatic
8 question. It's come out of multiple stakeholders,
9 saying that we know that cognitive behavioral
10 therapy works, but we would like to have information
11 that would suggest that various formats that make it
12 more feasible and accessible are equally effective.

13 Children ages 3 to 17 who meet criteria for
14 mild to moderate anxiety in diverse primary care
15 settings will be enrolled and randomized to either
16 online cognitive behavioral therapy in a series of
17 programs that are already developed that are age-
18 and developmentally appropriate, or to face-to-face
19 cognitive behavioral therapy.

20 Some people say, "How could you have such a
21 broad age range?" Well, it's possible because of
22 these age- and developmental-specific modules. It's

1 also true that modified cognitive behavioral therapy
2 has been shown to be effective in children as young
3 as 3.

4 So the outcomes of interest will be anxiety
5 symptoms. They will be gathered through both parent
6 report as well as child report. Some research has
7 suggested that children are more accurate in terms of
8 reporting the impact of anxiety on their function.
9 And then the second will look at how children report
10 that anxiety is interfering in their life. We'll
11 also look at parental outcomes -- depression,
12 anxiety, and stress.

13 This is a two-arm randomized, controlled
14 trial with a sample size of around 1800. The active
15 intervention is delivered over a 12-week period of
16 time, but this will provide the long-term outcome.
17 So we'll get a sense of not only how well disease
18 services work initially, but how well are they
19 maintained over time. And that was an important
20 attribute of this research that the community has
21 asked for. And the total project cost is \$13.6
22 million.

1 This is an area of special emphasis that we
2 called out in our last PCS announcement, and should
3 provide information that would be actionable to a
4 variety of settings that deal with the very common
5 issue of child and adolescent anxiety.

6 The outcomes are focused on those that are
7 important to clinicians, patients, and parents. And
8 parents have been quite involved in developing this
9 study, including a Latino parent research committee
10 at one of the site institutions.

11 So in summary, we're very pleased to bring
12 to you five recommended projects today on behalf of
13 the selection committee. The amount available was
14 \$52 million, and we came in really close, \$51
15 million. Very pleased to have these, and I will
16 turn now -- turn the podium back over to Gray to
17 lead the discussion questions.

18 CHAIRMAN NORQUIST: So we're open for
19 discussions. In this particular discussion, Larry
20 Becker, Michael Lauer, and Bob Zwolak -- and now, I
21 understand, Kathleen, you're also recused -- cannot
22 participate in the discussion or the vote.

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1 Ellen?

2 MS. SIGAL: Well, almost all these are
3 areas I know very little about. So with that in
4 mind, I just have two questions. Well, the tobacco
5 one I know a fair amount about.

6 With the anxiety, how do you define anxiety
7 in a child? I mean, there could be all sorts of
8 issues with bipolar, all sorts of other issues.
9 There could be induced anxiety because of abuse or -
10 - so I don't understand how you measure that without
11 defining exactly what you're talking about. So that
12 would be one question.

13 Then I have one on the tobacco because
14 anxiety -- I mean, so what is it? I mean, how are
15 you defining this so you can really measure it?
16 Because there's so many different degrees of it. I
17 mean, look at what's going on now all over the
18 world. So what is it?

19 DR. WHITLOCK: Well, anxiety -- and
20 hopefully this is better; sorry if it was a little
21 fuzzy earlier -- anxiety disorders have criteria.
22 And this is for children that meet criteria for an

1 anxiety disorder that is mild to moderate in
2 severity. So they would need to meet criteria.
3 It's not just the normal worry kind of situation.

4 And the evidence suggests that anxiety
5 disorders are increasing in children and
6 adolescents, diagnosed anxiety disorders. So this
7 is actually a problem. We often hear about
8 depression and anxiety going tog, but we really have
9 focused mostly on depression. When we talk to
10 stakeholders, we talk to experts, we talk to
11 clinicians, this is a very under-studied, under-
12 addressed area that's causing a significant amount
13 of suffering in children and in adolescents.

14 It's also important because the natural
15 response of parents to anxiety -- which anxiety is
16 fear or worry out of proportion to the circumstance.
17 And the tendency in their child is to want to avoid.
18 And the parent tends to want to protect the child.

19 So almost the natural instinct of parenting
20 in those situations is to shield the child or keep
21 them -- give them a pass from something that might
22 be anxiety-producing. However, some of what's

1 necessary can be exposure-related.

2 So the point of that is that if not
3 identified and addressed, this becomes a cumulative
4 problem for children that can even end up in fairly
5 disabling conditions as they go into young
6 adulthood. So it's a serious issue, but it does
7 have diagnostic criteria.

8 DR. WHITLOCK: Everyone knows way more
9 about this than I, but sometimes the anxiety is
10 reduced by the parents. So there could be issues --
11 I assume you're going to figure that out. So let me
12 not take your time on it because Gray and others in
13 the room know --

14 CHAIRMAN NORQUIST: Well, let me -- I
15 assume, by what you're saying, Evelyn, is that these
16 are children with DSM-V diagnosed disorders of
17 anxiety, whatever those disorders are. But I assume
18 that's the way they are, not just somebody comes in
19 and says, "My child is anxious." They would have to
20 meet DSM-V criteria for a disorder, I would think.

21 DR. WHITLOCK: And just to say one more
22 thing because it was in your question, I think.

1 When we looked at this, there was a lot of -- we
2 talked to the experts about, do we need to have --
3 know all the comorbidities and other issues like
4 that?

5 And certainly, if you're doing medications,
6 you would need to be very careful. In this
7 instance, CBT is often helpful for a range of the
8 other conditions and/or it's certainly not going to
9 be harmful.

10 And it's also true that according to the
11 experts, that even ADHD and some other things that
12 are diagnosed can actually have anxiety underpinning
13 and may even be misdiagnosed. SO it's not
14 contraindicated in those situations.

15 MS. SIGAL: On the tobacco -- yeah. Just
16 the tobacco very, very quickly. There's so much
17 going on in tobacco, going on at NCI, at the NIH,
18 going on up through the American Cancer Society. I
19 assume you have looked at the landscape, and this is
20 something that is different than what is happening?

21 DR. WHITLOCK: Yeah. There is a lot going
22 on in tobacco. However, this is almost at the

1 dissemination and implementation area, if you think
2 about it, because this is really taking evidence-
3 based treatment and looking at various strategies to
4 try and efficiently, effectively, in low-resource
5 conditions, connect people with the resources.

6 And so what will happen is the clinics will
7 be intervened upon in various ways to remind them.
8 And then the individuals themselves will be targeted
9 in increasing ways to remind them of the
10 opportunity. And so it's a pretty ambitious way to
11 think about targeting a whole state, which is not
12 necessarily being done in a lot of the other
13 research.

14 And you're right, there is a lot of
15 cessation research that's been done. But this is
16 really trying to get at the interface to getting it
17 to people.

18 DR. McNEIL: That was a grantee
19 presentation. I had one question, and it relates a
20 little bit to one of the comments that Bari Talente
21 talked about with regard to MS. I'm talking about
22 the grant with regard to a rare form of TB and our

1 desire to have two drugs versus three drugs, and the
2 need for multiple institutions to participate to
3 collect an adequate number of patients to get an
4 appropriate sample size.

5 So here's the question. Without being
6 totally intrusive, how do we know that the sample
7 size is going to happen, and that some institutions
8 aren't going to fall behind, and then the whole
9 study will be sabotaged?

10 I worry about that in general for all rare
11 diseases, and this one in particular, because a lot
12 of the patients are going to be coming from poor
13 neighborhoods in poor institutions that aren't
14 necessarily going to have the capability of grabbing
15 these patients and putting them in a study.

16 DR. WHITLOCK: Barbara, I don't remember if
17 you were at the selection committee that day, but I
18 think that was brought up by the selection
19 committee, and we talked about being sure that we
20 have a planning year in for this one to be sure that
21 recruitment --

22 DR. McNEIL: I was there. I was just

1 bringing it up again here for everybody to hear.

2 (Laughter.)

3 DR. WHITLOCK: Oh, good. Yeah. Because
4 you're exactly right. This could go down because of
5 inadequacies in the implementation. And so this is
6 an instance where -- even though I think we're
7 trying to move in that direction in general, this is
8 an instance where we really need to be sure we do
9 that so that we ensure that it's feasible. So thank
10 you for that.

11 CHAIRMAN NORQUIST: Okay. Then I think we
12 need to move. I need a motion to approve this
13 particular slate.

14 DR. McNEIL: So move.

15 CHAIRMAN NORQUIST: Barbara. And then a
16 second.

17 DR. FERNANDEZ: Second.

18 CHAIRMAN NORQUIST: Alicia. Okay. So this
19 is a vote by hand. All those in favor that are not
20 recused?

21 [Hands raised.]

22 CHAIRMAN NORQUIST: Okay. Anybody voting

1 against this? And I have to abstain because I may
2 have a conflict. I'm not just completely sure. So
3 Mary has advised me to abstain. Okay. It passes.

4 Allen, are you on the phone?

5 DR. DOUMA: I am.

6 CHAIRMAN NORQUIST: Okay, Allen. How did
7 you vote?

8 DR. DOUMA: I voted in favor.

9 CHAIRMAN NORQUIST: Okay. Thanks.

10 Okay. Evelyn? Whatever's up next. Oh,
11 the symptom management per patient. Okay.

12 DR. WHITLOCK: Okay. So this is also from
13 Cycle 2 of 2017, from the targeted funding
14 announcement, around symptom management for patients
15 with advanced illness.

16 This was the first time we posted this
17 targeted funding announcement, and we asked for
18 studies that would look at long-term outcomes, at
19 least six months, comparing evidence-based
20 pharmacologic treatment with other management
21 strategies for common symptoms experienced by
22 patients with a range of diagnoses with advanced

1 illness and a life expectation of greater than six
2 months. So we were trying to get not just the final
3 four weeks of life, but a little bit more upstream
4 in the palette of care process.

5 The priority research question asked that
6 based on parent- and caregiver-centered outcomes
7 both, what is the comparative clinical effectiveness
8 of two or more approaches?

9 And we did define one of those being -- at
10 least one being a pharmacologic intervention on any
11 of the most common symptoms in patients living with
12 advanced illness, so pain, fatigue, dyspnea,
13 anorexia or cachexia, nausea, vomiting, and
14 depression and/or anxiety.

15 Same merit review criteria from the other
16 slate. We got 19 letters of intent for this. We
17 invited 12. We received nine applications. And
18 today we're bringing to you a recommendation to fund
19 one out of the nine applications we received.

20 This is a project that's looking at
21 personalized treatments for advanced medical
22 illness, patients with depression, specifically with

1 heart failure. And it's a \$2.6 million study.

2 So the research question is looking at the
3 comparative effectiveness of three treatment
4 strategies for depressive symptoms in patients with
5 advanced heart failure. So patients that have been
6 admitted to the hospital with a diagnosis of
7 advanced heart failure and who screen positive for
8 depression are candidates for this study.

9 They can be randomized to one of three
10 interventions: Either a behavioral activation,
11 which is a short-term psychotherapy-type
12 intervention that's evidence-based, combining the
13 behavioral activation with appropriate
14 antidepressant medications, or antidepressant
15 medications alone.

16 The primary outcome is change in self-
17 reported depressive symptom severity measured by the
18 PHQ-9, but secondly, focusing in on important areas
19 of patient functioning, health-related quality of
20 life, global health, the caregiver burden, and then
21 utilization as a representation of the primary
22 disease as well as the depressive disease.

1 As I mentioned, it's three arms. It's a
2 single-site, randomized, controlled trial, and the
3 anticipated sample size, or the target sample size,
4 is 450. And there'll be a 12-month follow up. As I
5 mentioned, a cost of \$2.6.

6 This is looking at pragmatic kinds of
7 interventions that could be offered to patients who
8 experience depression along with their heart
9 failure. Because behavioral activation is more
10 easily implemented than some other kinds of
11 psychotherapeutic interventions, and a broader range
12 of providers may be able to do this, further
13 evidence here could be helpful for these patients.

14 And it looks at longer-term outcomes for
15 patients and caregivers. It was developed with the
16 input of patients who have experienced this
17 situation, and will be managed with professional
18 organizations and others.

19 So there's not more say about that except
20 we fell somewhat short. And as Christine said, I
21 can answer questions about that if you'd like to, at
22 the end of this presentation or at the end of

1 presenting all of the slates. We were hoping to
2 receive more meritorious applications for this, but
3 we felt good about the study that we're bringing to
4 you today.

5 So let me stop there and see if there are
6 comments or questions.

7 [No response.]

8 CHAIRMAN NORQUIST: Yeah. I don't --
9 Allen, you're on the phone. Do you have any
10 questions?

11 DR. DOUMA: No, I don't.

12 CHAIRMAN NORQUIST: Okay. Yes, Joe?

13 DR. SELBY: Since you invited us, what are
14 your thoughts about the fact that -- I know this was
15 kind of a new effort. We kind of did in this one
16 what Harlan has been urging us to do for a long
17 time, which was to focus on symptoms.

18 And we didn't get more than one that we
19 felt we could fund. So I think it would be
20 interesting for the public to hear what your
21 thoughts are. And I would like to hear, too. I may
22 have already heard, but --

1 DR. WHITLOCK: Well, we are still doing a
2 hypothesis generation around that both at the SC and
3 the SOC. I think some -- and at the staff level. I
4 think that some of the initial thoughts have to do
5 with the fact that this was a first-time targeted
6 funding announcement.

7 And sometimes it takes a while to get out
8 to the right part of the research community. So we
9 have wondered if giving a second opportunity, and
10 maybe doing a little bit broader outreach, might be
11 effected.

12 The second has to do with being clear about
13 what we're aiming to target in this. It perhaps was
14 off-putting by requiring a six-month or so
15 longevity, if you will. Certainly we were trying to
16 move out of the very end of life care, but it
17 perhaps may have introduced some either discomfort
18 or uncertainty on the part of the research
19 community. So that's one possibility.

20 And then we wondered about the requirement
21 for requiring a pharmacotherapy, although that's
22 usually what people are given, and we wanted to

1 mimic situations where we were looking at pragmatic
2 alternatives.

3 That said, we think there's still room for
4 research in this area. It's really important. Very
5 patient-centered. And so we're thinking about how
6 we can give another opportunity, potentially, to try
7 and answer these important questions. But I'd
8 welcome thoughts from others as well.

9 CHAIRMAN NORQUIST: Christine, since you're
10 head of the selection committee, you may want --

11 DR. GOERTZ: Yeah. I really think removing
12 the requirement that there be a pharmaceutical
13 intervention will really open this up then and
14 increase the number of applications.

15 CHAIRMAN NORQUIST: Bob, did you want to
16 say --

17 DR. ZWOLAK: And I think I ought to add
18 that the SOC considered this and is enthusiastic
19 about reposting.

20 CHAIRMAN NORQUIST: Any other comments
21 about this particular one?

22 [No response.]

1 CHAIRMAN NORQUIST: Okay. No one is
2 recused at this point, unless someone lets me know
3 now. Okay. I need a motion to approve this grant.

4 DR. McNEIL: So move.

5 CHAIRMAN NORQUIST: Barbara.

6 DR. DOUMA: Second.

7 CHAIRMAN NORQUIST: And then a second from
8 Allen. Okay. All those in favor, raise your hand.

9 [Hands raised.]

10 CHAIRMAN NORQUIST: And is anybody opposed?

11 [No response.]

12 CHAIRMAN NORQUIST: Anybody abstaining?

13 [No response.]

14 CHAIRMAN NORQUIST: Okay. Evelyn, I think
15 you have two more. Is that right? There's the -- I
16 see a medication-assisted treatment delivery for
17 pregnant -- okay. And then another one, I think,
18 after that. Right? Okay.

19 DR. WHITLOCK: Okay. So this is another
20 targeted funding announcement from Cycle 2, 2017.
21 And it also was the first time that this was posted,
22 looking at medication-assisted treatment delivery

1 for pregnant women with substance abuse disorders
2 involving prescription opioids and/or heroin.

3 This targeted funding announcement was
4 focused on women with opioid use disorder, pregnant
5 women --

6 CHAIRMAN NORQUIST: Wait a minute. I'm
7 sorry. I forgot to ask Allen what his vote was on
8 the last one. It just dawned on me. Allen?

9 DR. DOUMA: Thank you. My hand is raised.

10 CHAIRMAN NORQUIST: Okay. Your hand is
11 raised. All right, thank you. I'm sorry. Okay.
12 I'm sorry.

13 DR. WHITLOCK: Okay. So when the SOC
14 worked on putting together this funding
15 announcement, there was a focus at that time --
16 there was a real growing understanding of the number
17 of women, and particularly newborns, being affected
18 by the opioid epidemic, and great concern about
19 getting resources to individuals, particularly those
20 that are in underserved situations.

21 So what we asked for was a CER that would
22 look at various ways of supporting the delivery of

1 medication-assisted treatment, which is an evidence-
2 based approach, to reducing neonatal abstinence
3 syndrome and poorer outcomes for the mother and the
4 baby.

5 We were interested in very large
6 randomized, controlled trials or well-justified
7 observational studies. There are several states
8 that have taken quite a bit of initiative because of
9 the impact on their population. So we thought that
10 there could be some good natural experiments.

11 We were interested in looking at what
12 delivery models or components that had evidence of
13 efficacy or were in common use, how they would
14 compare to each other. And so we asked two
15 questions.

16 The first is: What is the comparative
17 effectiveness of alternative models to deliver
18 comprehensive opioid use disorder treatment? And
19 what is the impact on maternal and neonatal outcomes
20 in pregnant and postpartum women with different
21 levels of addiction severity?

22 And then the second was looking at

1 different mechanisms to support treatment delivery
2 to pregnant women that included more or less
3 resources for two aspects of medication-assisted
4 treatment, which is the induction of the treatment,
5 so coming down off of the opioids and then going
6 onto the medication, and then providing psychosocial
7 support. So this was -- and I want to make a
8 distinction that the second was really oriented
9 towards supporting providers in the delivery of this
10 service.

11 We received 18 letters of intent, we
12 invited 14, and we received 10 applications, and
13 we're proposing to fund two. These two address only
14 the first question, and we are discussing with the
15 SOC whether it is advisable to repost the targeted
16 funding announcement to deal with the second
17 question.

18 But these two applications that are coming
19 to you today from the selection committee represent
20 only the first two, comparing different models of
21 delivery for pregnant women with opioid use
22 disorder.

1 The first is a \$5.3 million study called
2 Moms in Recovery, looking at what is the optimal
3 care approach for pregnant women and infants. And
4 the second is the same population, but looking at a
5 rural setting and different modes of delivering
6 these services in rural Kentucky. They're each
7 about \$5 million.

8 The MORE study is looking at two different
9 models of care. So one is an integrated model of
10 care, where the office-based opioid therapy is
11 delivered in the same location as prenatal care.
12 The other is a perhaps more easily assembled
13 referral-based treatment, where women with opioid
14 use disorder in prenatal care are referred out to
15 specialty services to deliver the office-based
16 opioid treatment, and the impact of these different
17 models of care on pregnant women with opioid use
18 disorder and their infant in terms of outcomes.

19 So the two different models, as I
20 mentioned, are really differing by whether or not
21 they're at the same setting and whether or not
22 they're integrated. The outcomes across these two

1 models of care will be -- the primary outcomes are
2 the continuation of illicit opioid use, whether or
3 not women stay in treatment, and whether or not
4 there are perinatal complications, which would
5 include neonatal abstinence syndrome. And that is a
6 -- I'm sorry, that's a secondary outcome.

7 There's also a look at the impact of opioid
8 use disorder on families. So there'll be
9 consideration of whether or not mothers are able to
10 retain custody of their children and quality of
11 life.

12 This study is a prospective, observational,
13 mixed-methods design, looking at two existing
14 approaches. The sample size will be large, 2,000.
15 And depending on the week that the women come in for
16 prenatal care, the active duration of the
17 intervention will range, but will go into -- from
18 the third trimester or through six months
19 postpartum. So there'll be treatment after
20 delivery for women as well, and follow up through
21 six months postpartum.

22 So this is a really important comparison

1 because if it works as well to be able to refer to
2 services and services are available, that's
3 important to know since integration of treatment
4 services can be something that can require novel
5 organization of care.

6 This will also be able to look at a range
7 of severities for specific subgroups, and to look at
8 differences in outcomes, both for infants and for
9 mothers, based on at least severity and other
10 characteristics.

11 There will be a series of qualitative
12 patient interviews to understand also how women
13 experience the care and what is most acceptable to
14 them. And the design of the study as well as the
15 outcomes were actually informed by women, postpartum
16 women who are receiving medication-assisted therapy.

17 There's a lot of interest in this type of
18 study from the Medicaid medical directors and from
19 others. And we have good networks, or the study
20 team has good networks, that are involved that will
21 help with both the conduct of the study as well as
22 its dissemination.

1 The second study is looking at different
2 models of support for women that are receiving
3 office-based opioid in a rural site. The first will
4 be -- and these are services to the woman, not to
5 the clinician.

6 So the first additional support that women
7 will receive is telemedicine consultations with
8 clinicians who are experts in various aspects of the
9 issues that women are facing who have opioid use
10 disorder, so clinicians that are experts in
11 substance abuse counseling, clinicians with
12 expertise in maternal-fetal medicine, addiction
13 medicine, and neonatology.

14 The contrasting condition will be
15 additional support provided to women through in-
16 person group sessions that are facilitated by a
17 perinatal nurse and a peer support specialist. So
18 we'll be looking at sort of an individual specialist
19 consultation model through telemedicine versus in-
20 person group facilitation and support.

21 The outcome here, the primary outcome, is
22 treatment-requiring neonatal abstinence syndrome.

1 Secondary outcomes are some that look familiar and
2 some that are a little different from the other
3 study. One, custody status, is very similar;
4 relapsed rate or continuation of illicit substance
5 abuse; and then maternal mood and infant
6 developmental milestones. Smoking cessation is also
7 included in this one as an additional behavior that
8 can affect perinatal outcomes.

9 This is a cluster randomized, controlled
10 trial, the sample size is 1,620, and there will be
11 12 sites involved. And again, depending on when the
12 women enter prenatal care, the length of the
13 intervention will vary, but will go through six
14 months postpartum.

15 So in a rural setting, the opportunities to
16 provide additional supports to women are varied.
17 But having different models that can inform
18 practitioners and patients will be quite important
19 because a number of women in rural settings need
20 these kinds of support.

21 And the comparators and the outcomes were
22 all based on focus groups with patients and

1 interviews with patients. And patients will
2 continue to be involved through the conduct of the
3 study. Again, there are numerous stakeholders
4 involved because of the importance of the condition
5 at a local and a state level, and those stakeholders
6 will be critically important in helping to support
7 the study and in disseminating its findings.

8 So in summary, we had \$14 million made
9 available. We have here two proposed awards that
10 total \$10.2 million. And I'll turn it back over for
11 discussion and questions.

12 CHAIRMAN NORQUIST: Okay. So Bob Zwolak,
13 you're recused from this. No one else at this point
14 unless someone let's me know now. Any comments or
15 questions to Evelyn about this one? Allen? Any --

16 DR. DOUMA: No, sir.

17 CHAIRMAN NORQUIST: Okay. Kathleen?

18 MS. TROEGER: Evelyn, just a quick question
19 on project 2 in Kentucky. What's the plan for
20 managing lost to follow up in that over the six
21 months postpartum?

22 DR. WHITLOCK: I'm asking Steve. I don't

1 remember -- I don't remember any specifics about
2 that. We always look at that. But I don't remember
3 specifics. Do you remember, Steve?

4 STEVE: Well, these women will be -- are
5 connected with these providers in the context of
6 making this transition between the perinatal period
7 and into postpartum. And they will -- they have
8 relationships they've established with both these
9 patients and physicians to try maintain
10 relationships with these.

11 They have done similar kinds of studies
12 before, with certain types of success. So we're
13 fairly confident that they'll be able to do it. But
14 I do agree. In general with this kind of work, this
15 is a very challenging area to try to maintain
16 contact with people that can easily move back into
17 the system.

18 CHAIRMAN NORQUIST: Okay. I Need someone
19 to make a motion.

20 MR. BECKER: So move.

21 CHAIRMAN NORQUIST: Larry. And a second?

22 MR. BARNETT: Second.

1 CHAIRMAN NORQUIST: Okay, Kerry. So I need
2 hands raised of all those in favor.

3 [Hands raised.]

4 CHAIRMAN NORQUIST: Is anyone -- okay. Is
5 anyone opposed?

6 [No response.]

7 DR. DOUMA: And I'm in favor.

8 CHAIRMAN NORQUIST: I'll get Allen. I'm
9 just checking the room first. Abstaining?

10 [No response.]

11 CHAIRMAN NORQUIST: Okay. Allen?

12 DR. DOUMA: Yes.

13 CHAIRMAN NORQUIST: Yes. Okay.

14 All right. The final one before we take a
15 break.

16 DR. WHITLOCK: Yes. Okay. And so this is
17 between you and your break, so we'll go quickly.

18 So this is actually -- this is from Cycle
19 1, 2017. This was a targeted funding announcement
20 looking at optimized multidisciplinary programs for
21 nonspecific chronic low back pain.

22 And it was looking for large, randomized,

1 controlled trials or well-justified observational
2 studies that would compare the effectiveness of
3 optimized multidisciplinary nonsurgical treatment
4 programs that were either combining evidence-based
5 treatments or sequencing interventions for
6 treatments -- or for patients with nonspecific
7 chronic low back pain.

8 And you may recall there was a systemic
9 review and clinical practice guideline recommending
10 these nonsurgical, multidisciplinary approaches as
11 kind of a first step. But a lot of uncertainty
12 about combinations and sequencing.

13 The treatment programs, there is a large
14 body of evidence on separate components. So we
15 asked that any of the treatments that were in these
16 combinations or in sequence were evidence-based and
17 could be well characterized so that if the results
18 were positive, the studies could be replicated and
19 disseminated.

20 The priority research question was: What
21 is the comparative clinical effectiveness of
22 optimized multidisciplinary nonsurgical treatment

1 programs involving combined or sequenced
2 interventions for patients for nonspecific low back
3 pain?

4 So we received 12 letters of intent for
5 this targeted funding announcement, and we invited
6 seven to submit a full application, and we received
7 five full applications. We propose today to fund
8 one of the five received applications.

9 This study is a \$9.7 million study looking
10 at optimizing treatment sequencing for patients with
11 chronic nonspecific low back pain. This looks at
12 two different evidence-based approaches. One is as
13 the initial treatment. The first is physical
14 therapy. The second is cognitive behavioral
15 therapy.

16 So patients -- it's a smart design, and
17 patients will be randomized to either initial
18 physical therapy or initial cognitive behavioral
19 therapy for those with chronic low back pain. The
20 sample size is 945, and there are three study sites.

21 After 10 weeks, if there has been no
22 response to the initial randomized treatment

1 sequence, then patients will undergo -- those that
2 are nonresponders will undergo a second
3 randomization. And they will be randomized to
4 either a mindfulness-based intervention or the
5 treatment -- the initial treatment that they were
6 not randomized to.

7 So if they were first randomized to CBP, in
8 the second round they could be randomized to
9 mindfulness or PT. So there'll a second level of
10 randomization that will create a number of different
11 groups, not just four different groups, but because
12 mindfulness is coming in as well.

13 The folks cannot have had any spine surgery
14 in the last 12 months, and they need to have an
15 Oswestry score greater than 24 percent and an
16 average pain rating greater than 4, which I think
17 puts them in a moderate-plus pain and severity -- is
18 that right? Yeah, moderate. So moderate-plus pain
19 or severity -- and they meet the definition for
20 chronic low back pain that the NIH has proffered.
21 Any age from 18 to 65 years.

22 The outcomes through 12 months will focus

1 on pain intensity and function, but will also look
2 at a range of patient-reported outcomes around
3 function, mood, sleep, social role, pain or
4 interference, as well as long-term opioid use and
5 healthcare utilization. And I mentioned the project
6 cost is close to \$10 million.

7 So because guidelines have looked and
8 evidence has primarily looked at different discrete
9 treatments, not looked at the sequence, there is a
10 dearth of evidence about what to start with and how
11 to proceed and in whom. And this research could be
12 very helpful in taking these evidence-based
13 treatments and developing some information about how
14 well people respond initially and how well they do
15 at various sequences.

16 This has been informed by patients and
17 other end-use stakeholders, and the focus on
18 multiple aspects of quality of life, which low back
19 pain, chronic low back pain, can interfere, with is
20 the strength of the study.

21 The investigative team is strong and has
22 developed the approach in partnership with patients

1 and pain management experts. And those will be also
2 helpful in dissemination.

3 So in summary, we were able to bring to you
4 one study that we feel confidence about. It's a
5 \$9.7 million study on optimized multidisciplinary
6 treatment programs for nonspecific chronic low back
7 pain. And I will turn it back over for any
8 questions or discussion.

9 CHAIRMAN NORQUIST: Okay. Questions?
10 Comments? I don't have anyone recused at this point
11 unless someone sees that they are. Francis?

12 DR. COLLINS: Just a quick question. So is
13 it your impression that this \$9.7 million will
14 result in some kind of implementation opportunity?

15 DR. WHITLOCK: Do you mean will it be
16 definitive evidence? Is that what you mean?

17 DR. COLLINS: Yeah. I'm wondering. I
18 think it's a neat methodological study, and it
19 certainly fills an evidence gap. But I'm just
20 wondering. I'm harking back to this point in this
21 conversation around implementation, whether this
22 will result in some actionable opportunity for

1 either PCORI funding in this sort of low back pain.

2 DR. WHITLOCK: Well, This targeted funding
3 announcement was the subject of a lot of discussion.
4 And the whole area of chronic low back pain has been
5 a challenging one. There's a huge need. A lot of
6 questions in terms of research, but a real challenge
7 in finding the next right study to do that would
8 then change practice because so much is not -- we're
9 not at that point where we can say a single study's
10 going to do it.

11 So I would say, in answer to your question,
12 the therapies that are talked about here are fairly
13 commonly available. And if there were definitive
14 evidence about sequences and in whom they work
15 better -- because it's a fairly large sample size --
16 then I could imagine that that would be informative
17 to the field and perhaps implementable.

18 I think that we're going to be creating
19 evidence in this area for quite a long period of
20 time before we have a lot of the answers, and one of
21 the critical areas is going to be understanding how
22 do we differentiate between the different types of

1 folks with chronic low back pain because we've got
2 them all in a lump together and they're not all the
3 same in terms of their pathophysiology.

4 CHAIRMAN NORQUIST: We'll hear from our
5 spine expert. Christine?

6 DR. GOERTZ: Yeah, hi, Francis. I think
7 that's an excellent question. I think that the fact
8 that the American College of Physicians, the FDA,
9 and the Joint Commission are now calling for non-
10 drug therapies before drug therapies for chronic low
11 back pain will help facilitate implementation.

12 Also, this particular study team is very
13 well-integrated into the physical therapy community.
14 And also, they have appointments -- the PI has an
15 appointment within the Department of Defense. So
16 there are a lot of -- I think there are more
17 opportunities for dissemination and implementation
18 of this kind of work than there has ever been in the
19 past.

20 CHAIRMAN NORQUIST: Any other questions? I
21 think always the -- yes, Larry?

22 MR. BECKER: I have a question. And I know

1 we've sort of covered this before, but as a non-
2 clinician, non-researcher, the question that comes
3 to my mind is we put \$42 million out there.
4 Employers have lots of low back pain issues.
5 Insurers have the same thing. What is it that is
6 keeping us from finding good projects to fund when
7 we have this kind of money available to do this
8 work?

9 CHAIRMAN NORQUIST: Christine, you want to
10 -- because I know you're dealing a lot with this
11 issue.

12 DR. GOERTZ: Yeah. We need to do better.
13 There's no question. For whatever reason, we
14 haven't quite hit that sweet spot. And I think that
15 that's something that we need to continue to put
16 more time and attention into in the path.

17 It's something that Evelyn and I have
18 talked about because recently NIH put out a call for
19 pragmatic comparative effectiveness studies to be
20 conducted in the DOD and the VA. And we're planning
21 to fund seven, and instead they had so many good
22 applications that they funded 11.

1 So I think that we -- there can be lessons
2 learned about the way that that announcement was
3 both written and distributed that would be helpful,
4 and that we need to -- we should not give up on
5 this. We need to continue to figure out how to do a
6 better job of putting together these announcements
7 and getting them disseminated to the research
8 community.

9 DR. WHITLOCK: Well, and just to build on
10 what you were talking about, we were talking this
11 morning. Harlan was talking about how funders could
12 collaborate. And everyone has an interest in
13 chronic low back pain, so we could be doing a lot
14 more, and have started conversations with the VA and
15 DOD and others around areas of shared interest. And
16 this would be a really strong area, including the
17 NIH collaboratory.

18 CHAIRMAN NORQUIST: Yeah. So those kind of
19 topics are obviously something we should have more
20 of a conversation about because it's not only in
21 back pain. It may be in other areas as well.
22 Right?

1 Okay. So any other questions or comments?

2 [No response.]

3 CHAIRMAN NORQUIST: So I need a motion to
4 approve this. Bob?

5 DR. ZWOLAK: So moved.

6 CHAIRMAN NORQUIST: And then a second.
7 Russell?

8 DR. HOWERTON: Second.

9 CHAIRMAN NORQUIST: Okay. So we'll go in
10 the room first, then we'll ask Allen. All right.
11 Everybody in favor raise your hand.

12 [Hands raised.]

13 CHAIRMAN NORQUIST: All right. Anybody
14 opposed?

15 [No response.]

16 CHAIRMAN NORQUIST: And anybody abstaining?

17 [No response.]

18 CHAIRMAN NORQUIST: Allen?

19 DR. DOUMA: In favor.

20 CHAIRMAN NORQUIST: Okay. So it passes.
21 And just on time. Perfect, Evelyn, as
22 always. Okay. So we'll take a 15-minute break.

1 For those on the phone, we'll be back in about 15
2 minutes.

3 [Recess.]

4 CHAIRMAN NORQUIST: Okay, we're going to
5 start back, Evelyn when you sit down we'll start
6 back.

7 So the next session is about a targeted PFA
8 development. Right. Okay. So, Evelyn and I guess
9 Bob, Bob is on a call -- Bob will come back. He was
10 on a call so I'll let you handle it.

11 DR. WHITLOCK: Yes. Okay. I don't see him
12 on behalf of the Science Oversight Committee.
13 Alicia is here. Would you like to say --

14 CHAIRMAN NORQUIST: Alicia, do you want to?

15 DR. FERNANDEZ: No, I don't --

16 DR. WHITLOCK: Just go ahead. Okay. So we
17 are bringing to you for consideration a targeted
18 funding announcement. Looking at the various
19 approaches to psychosocial support and office-based
20 opioid treatment for opioid use disorder and this is
21 not the same as the medication assisted treatment in
22 pregnant women, but it, it has some similarities.

1 So, we'll separate those out for you. Sorry. Let's
2 see. Is that good? Is that better? Okay. Okay.

3 So this is just a reminder that this is a
4 topic that has come through the prioritization
5 pathway, and been developed for a targeted funding
6 announcement. This is the summary we, I think
7 provided for you in the brief, the Board brief
8 materials supporting the rationale for this targeted
9 funding announcement, but in brief, let me review
10 it.

11 So, medication assisted treatment is first
12 line evidence-based treatment for those with opioid
13 use disorder. Buprenorphine which can be offered in
14 a primary care setting as office-based opioid
15 therapy is an important option for individuals
16 because it has a wider range of individuals --
17 clinicians who can be trained and certified to
18 provide it. So both a physician assistant and nurse
19 practitioners, as well as MDs. It has a favorable
20 safety profile and it is now available in a long
21 acting form.

22 It's one of the areas that has been

1 emphasized in a number of recent announcements from
2 the White House and others about expanding access to
3 medication assisted treatment.

4 And currently a medication-assisted
5 treatment by federal law requires the clinician to
6 provide or refer adequate psychosocial services.
7 It's also recommended through national guidelines
8 that evidence-based psychosocial services be
9 provided as part of office-based opioid therapy, but
10 it's not clear from current evidence which services
11 are better for which patients.

12 And in fact, when you look at individual
13 trials and systematic reviews, there are mixed
14 results on which psychosocial treatments are the
15 most effective and even sometimes whether or not
16 psychosocial treatments are necessary. The field
17 has said perhaps it's because there was such robust
18 comparator provision, but it's definitely mixed
19 results in the available evidence.

20 And further, most of the evidence on
21 psychosocial service support has been studied with
22 Methadone and not buprenorphine.

1 Stakeholders across the spectrum are
2 strongly interested in better evidence to inform the
3 provision of a medication-assisted treatment and,
4 and to support the ongoing expansion of access to
5 medication -- to evidence-based medication assisted
6 treatment.

7 So the question of interest that we're
8 bringing to you for this targeted funding
9 announcement today is what is the comparative
10 effectiveness of psychosocial interventions versus
11 standard medical management for patients who receive
12 office-based opioid treatment with buprenorphine?
13 Which psychosocial interventions are most effective
14 and for whom?

15 When we talk to NIDA and we, we have spoken
16 with NIDA and a number of stakeholders through the
17 process of developing this, we were told that the
18 question about how much is necessary for whom is the
19 most important question around medication-assisted
20 treatment right now, that really the barrier of not
21 knowing how much psychosocial service support is
22 necessary versus standard medical management is one

1 of the major barriers. So in this funding
2 announcement, populations could include adolescents,
3 patients with multiple comorbidities, ethnic and
4 racial minorities. It doesn't have to include
5 those, but these are populations that would be a
6 particular interest.

7 The interventions and comparators would be
8 standard medical management, and then a number of
9 other interventions as listed here, all of which are
10 evidence-based in terms of the context of
11 medication-assisted treatment and the applicants
12 would need to justify that the two competitors that
13 they are proposing are evidence-based, that they can
14 be protocolized, and that they therefore could be
15 reproduced and understood in the context of the
16 research.

17 The outcomes that stakeholders have told us
18 are important are illicit opioid use, retaining
19 people in treatment, how well people function --
20 particularly social role functioning; and then, ED
21 visits, overdose, and an interesting outcome which
22 is provider satisfaction. Providers are critical to

1 making these services available to people. And in
2 fact, the adequate provision of these services can
3 be a very positive experience for providers
4 according to some of the stakeholders that we spoke
5 with.

6 So understanding the best ways to support
7 providers in supporting patients in these
8 interventions is one aspect of the research. The
9 timing should be at least one year of follow-up and
10 this would be focused on outpatient clinics and
11 practices were office-based, opioid therapy is
12 offered.

13 We recognize that there's been a fair
14 amount of investment in opioids across the spectrum
15 from prevention to this aspect which looks at the
16 treatment of opioid use disorder. And so, the
17 requested commitment here is modest compared to some
18 of our other targeted funding announcements. We
19 believe we could get four to five well-constructed
20 studies for a total direct cost of \$4 million and up
21 to \$25 million in total costs and we would specify
22 that the maximum project duration would be four

1 years.

2 And so, I bring this to you for your
3 consideration today. Bob, I don't know -- you were
4 out of the room. Do you want to add anything to
5 this?

6 DR. ZWOLAK: I do. Thank you. I apologize
7 for coming in late.

8 In discussing this particular next step and
9 in our funding for opioid disorders, the SOC had a
10 robust discussion about how much we've spent at this
11 point, something just shy of \$74,000,000, 13 large
12 projects at various stages of trying to break the
13 cycle of opioid use from preventing a potential new
14 use from early stage use and from this stage which
15 we funded, four studies would be people with opioid
16 dependence, but it's, as we all know, it's a huge
17 problem. Forty -- 42,000 patients died from opioid
18 use disorders in 2016. That's more than everybody
19 in my entire hometown, dying from opioid use
20 disorder.

21 So it seems like an obvious and very
22 important step for us to take.

1 So the SOC in endorsed this
2 enthusiastically after reviewing what we've
3 sponsored to-date.

4 DR. WHITLOCK: Thank you.

5 CHAIRMAN NORQUIST: Other? Larry. Did you
6 want to? Yeah, go.

7 MR. BECKER: So, you know you read about
8 opioid issues every day in the newspaper. This is a
9 huge problem. It's a four year study. Have we done
10 the work to say who else is doing what? And this is
11 it to make sure this is not redundant?

12 DR. WHITLOCK: Well, we -- I'm trying to
13 remember if we went to ClinicalTrials.gov, I think
14 we did, to look at what's being done. Can you
15 remind you? Do you remember?

16 DR. ZWOLAC: In fact, much of that is in
17 the written materials for this.

18 DR. WHITLOCK: Yeah, I think we went to
19 ClinicalTrials.gov and we've actually been in
20 contact with NIDA the whole time in putting this
21 particular proposal together, as I mentioned, sort
22 of in passing, the opinion that we got from one of

1 the chiefs in NIDA who actually sees these patients,
2 he's a psychiatrist, was this is the question to
3 answer right now around medication-assisted
4 treatment. And, as you are probably aware, we
5 didn't show all the background, but as you're
6 probably aware medication assisted treatment is now
7 being called for in a lot of situations.

8 So we would allow large, observational
9 studies that could potentially get to an answer more
10 quickly if they can be proposed, but we don't think
11 that this will be duplicative and we think it's
12 really important.

13 CHAIRMAN NORQUIST: Other questions or
14 comments? Yeah. I think the key issue Larry is
15 that NIDA was -- they will know what's out there.
16 And I think one of the common things that people
17 think is you just give buprenorphine and that's it
18 and it works; and that doesn't work at all. We have
19 a buprenorphine clinic at my clinic, so we've had a
20 number of issues.

21 I would just stress that under-resourced
22 populations are really critical for this because

1 they're the ones who have many of the problems and
2 that's been our experience without any other
3 intervention. Just giving buprenorphine doesn't
4 work. Alicia.

5 DR. FERNANDEZ: Thank you for that comment,
6 Bob. It's something that we also fought a little
7 bit about on the Science Oversight Committee because
8 we are doing great work in opiates. This is
9 actually a really important study as Evelyn and
10 pointed out.

11 We really want to be sure to hit multiple
12 populations. So, for example, we've done the rural
13 Kentucky Now with the pregnant women with opiate
14 dependence and that's a hugely important study, but
15 at the same time we also wanted to hit some of the
16 traditional urban underserved populations.
17 Particularly who might have more access to
18 buprenorphine through all sorts of systems of care
19 where figuring out how much more is needed will be
20 key in terms of psychosocial support. So we didn't
21 end up -- I think putting that into the program
22 announcement, but we are struggling with ways to

1 call it out and saying that we are specifically
2 interested in traditional -- additionally in urban
3 underserved.

4 Is that right?

5 DR. WHITLOCK: That's right. And I think
6 the other thing I'd like to say is we had some
7 extraordinary -- extraordinarily helpful input from
8 stakeholders. And the concept that was talked about
9 pretty strongly is the idea that the amount of
10 psychosocial support and the nature of psychosocial
11 support should be needs based. And that it might be
12 most effective and efficient to think about stepped
13 down care rather than stepped up care, particularly
14 for some of these vulnerable populations, but that
15 people who have opioid use disorder, some have
16 quite, quite good maintenance of their social roles
17 and social functioning and some have lost almost
18 everything.

19 So those folks may have different resources
20 to bear and it would be very important to
21 understand, you know, how to target the services to
22 support people at various -- with various needs.

1 CHAIRMAN NORQUIST: The only thing I would
2 say in particular in some of these populations, I
3 deal with them all the -- you know patients all the
4 time, is that there's also comorbid substance abuse.
5 The assumption that you're only using opiates is not
6 true.

7 There's a lot of use of cocaine in addition
8 to that, so it gets very complicated.

9 DR. FERNANDEZ: I picked up on that as
10 well. And we can have a conversation to make sure
11 that when the announcement goes out it, speaks about
12 that.

13 CHAIRMAN NORQUIST: Allen. And now I
14 understand Harlan has magically appeared on the
15 phone, no longer in the room. So, did either one of
16 you have any comments or questions about this?

17 DR. DOUMA: I don't.

18 DR. KRUMHOLZ: None for me, thanks for
19 asking though.

20 CHAIRMAN NORQUIST: All right. What do we
21 do? A hand vote? Yes. Okay. So I need -- well
22 first I need a motion. Thank you. Barbara. And a

1 second? Thank you Gail. Okay. So all those in
2 favor raise your hand. And is anybody opposed? And
3 anybody abstaining? And then Harlan, you're vote?

4 DR. KRUMHOLZ: For.

5 CHAIRMAN NORQUIST: Okay. And Allen?

6 DR. DOUMA: I'm in favor.

7 CHAIRMAN NORQUIST: Okay. So it's
8 approved. Thank you Evelyn. Evelyn, I think that's
9 your last presentation to us in person, is that
10 right? Thank you very much.

11 [Applause.]

12 CHAIRMAN NORQUIST: We may find some other
13 time to bring you up and torture you, but anyway,
14 that's all right. Okay. So next. Are we ready?
15 Is Adrian? If not, we can -- two blocks away.

16 DR. SELBY: We're done a little early.

17 CHAIRMAN NORQUIST: Do you want to go Joe
18 and do your approval.

19 DR. SELBY: It would be a lot
20 better to do it in the sequence that -- if they're
21 two blocks away,

22 CHAIRMAN NORQUIST: Two blocks away and

1 then parking. Do you want to bring up something
2 else? I mean, we have, I don't think it's two
3 blocks away means 5 minutes.

4 DR. SELBY: Why don't I do the PaCR Awards?
5 I think that would be --

6 CHAIRMAN NORQUIST: The PaCR -- okay.

7 DR. SELBY: It's toward the end.

8 [Side discussion.]

9 CHAIRMAN NORQUIST: That's what Joe's
10 talking about.

11 DR. SELBY: I have another one I'm also
12 presenting.

13 CHAIRMAN NORQUIST: What else --

14 DR. SELBY: -- as part of their
15 presentation --

16 CHAIRMAN NORQUIST: No, I'm talking about
17 the awards, your 4:45 thing. Yeah. So for those on
18 the phone, we're jumping ahead to our people for the
19 3:45 session on the PCORnet update are not here yet.
20 So we're moving that to 4:45 session that Joe was
21 going to do on the PaCR awards, Partnerships to
22 Conduct Research within PCORnet.

1 DR. SELBY: We're -- look around 128.

2 CHAIRMAN NORQUIST: There you go.

3 DR. SELBY: Okay. Thank you Gray. There's
4 some small advantage here and that is that we are
5 still in kind of the slate mode. So I am presenting
6 a slate now. I'll ask Christine first --

7 CHAIRMAN NORQUIST: Wait, no. Those
8 recused from this one are Christine, Alicia, and
9 Barbara.

10 DR. SELBY: Oh, you're recused.

11 DR. DOUMA: Okay.

12 CHAIRMAN NORQUIST: So the three people:
13 Barbara, Alicia -- no, no. You don't have to leave,
14 you can't be in the discussion or vote. Yeah.

15 DR. SELBY: Do you want to say anything to
16 kick this off? Okay.

17 All right. So, in collaboration with Leah,
18 who chaired the Selection Committee for this
19 discussion, I'm happy to bring you a slate of awards
20 that are under the title of partnerships to conduct
21 research within PCORnet, otherwise known as PaCR.

22 And now -- okay. So this was a funding

1 opportunity that was directed to PPRNs within
2 PCORnet. They had to be the primary sponsors. They
3 had to bring collaborators, but they had to be the
4 prime sponsors and it was seen as a major step in
5 our multipronged strategy to achieve a sustainable,
6 national research infrastructure and with particular
7 attention to the role of PPRNs within PCORnet.

8 There were four distinct requirements that
9 these PPRNs had to meet as they applied. So we had
10 some -- each one of them aimed at strengthening the
11 likelihood of sustainability. The first is they had
12 to come with external partners, so there had to be
13 some co-funding, either direct dollars or in kind
14 support from outside funding organizations. These
15 could be pharmaceutical or device manufacturers.
16 They could be foundations, large patient advocacy
17 organizations or other foundations or they could be
18 healthcare systems, but they had to bring and
19 specify the nature and amount of co-funding and it
20 had to be at least 20 percent of the PCORI
21 contribution.

22 The second requirement was that it had to

1 advanced data integration. Single PPRNs by
2 themselves were not really, exactly a PCORnet
3 network type of project. So we required data
4 linkages. These could be linkages to CDRNs, they
5 could be linkages to registries. They could be
6 linkages to other PPRNs. They could be linkages to
7 patient reported data, but they had to expand and
8 link data as part of the project.

9 The third was they had to be legitimate
10 high quality, highly relevant comparative
11 effectiveness research studies. So this was --
12 there's nothing demonstration about them, there's no
13 points given for this being a demonstration. This
14 had to be competitive, comparative effectiveness
15 research, and to the maximum extent possible they
16 had to leverage existing PCORnet resources like the
17 coordinating center, particularly like the common
18 data model, possibly like the health plan research
19 network partners or other CDRNs or PPRNs.

20 So the Board approved the development of
21 this PFA in June of last year; and again, with
22 thanks to a Merit Review for moving this through.

1 Here we are 10 months later with an approved slate.
2 The funds available at the time or up to
3 \$21,000,000.

4 These are these standard research review
5 criteria that Evelyn presented. And I just wanted
6 to show you how data linkage components and
7 leveraging existing PCORnet resources were built
8 into the scientific merit criterion. And the
9 external partnerships and co-funding were built into
10 the patient and stakeholder engagement criterion.
11 And that's how the Merit Review reviewers were
12 instructed to score these.

13 I will say that they -- that all of these
14 and perhaps because they were led by PPRNs did an
15 amazing job on engaging patients in their own
16 organizations in developing the research ideas and
17 in planning engagement, as well as dissemination
18 throughout and after the projects.

19 Again, the same format here. Sixteen, LOIs
20 were received, 14 were invited to submit full
21 proposals. And remember this was a limited
22 competition among 20 PPRNs. Ten PPRNs submitted

1 proposals and out of those we are proposing to fund
2 four.

3 And these are the four. I won't say too
4 much about them here because I'm going to introduce
5 them separately. I will say that three out of the
6 four have to do with pharmacotherapies. I will say
7 that the first three are clinical trials and the
8 fourth one is a large observational study. And I
9 will say that the amount of money here adds to just
10 under \$21 million dollars -- over 20.

11 So this is the first one. This is a
12 comparative effectiveness study of using
13 pharmacogenomics to guide the treatment of
14 depression. So these can be either newly diagnosed
15 patients with depression or patients who have failed
16 one or more previous therapies, but major
17 depression. So what is the comparative
18 effectiveness of combinatorial pharmacogenomics-
19 guided treatment. This is an available; covered by
20 insurance and Medicare diagnostic test, 12 gene
21 test. Some of the genes measure actually does the
22 treatment work in people with this version of the

1 genetic marker, so-called a gene treatment
2 interactions. Some of the other genes have to do
3 with how drugs are metabolized and help steer toward
4 or away from particular therapies that may be over
5 or under metabolized.

6 Patients that are eligible are patients
7 that are 18 to 65 years of age with a major
8 depression diagnosis and they're referred by a
9 network of 80 psychiatrists based within four
10 PCORnet CDRNs. So you get the idea that this PPRN,
11 which is based on mood disorders reached out to four
12 CDRNs to actually attract the patients and created a
13 network of 80 psychiatrists. The intervention is
14 the pharmacogenomics-guided treatment and the
15 comparator is following a 2016 state of the art
16 depression treatment guideline. And the primary
17 outcome of interest is the WHO (Five); patient
18 reported wellness. The secondary outcomes include
19 other patient reported measures and a novel, mobile
20 health application. It's based on a cell phone and
21 it measures depression by measuring things like the
22 number and length of phone calls, text messages,

1 movement around in space during a day, and also
2 certain aspects of the intonation of one's voice,
3 but nothing to do with the content of what one is
4 saying.

5 The sample size, this is a individually
6 randomized controlled trial. The sample size is
7 400, 200 per arm. The intervention goes for a year
8 and the patients are followed throughout that year.
9 And the total cost is \$4.8 million.

10 The two external partners include the
11 pharmacogenomics lab, which contributes the tests as
12 well as the analysis and the training of clinicians
13 in the interpretation. They have a very nice
14 product which helps guide clinicians in going toward
15 or away from any of a number of antidepressant
16 candidates. And the second external partner is the
17 manufacturer of the m-health application and they
18 provide the platform, the license implementation
19 services.

20 The project also meets the criteria of
21 advancing data integration by combining patient
22 reported outcomes, intense usage of the common data

1 model from the four CDRNs, the pharmacogenetic data
2 and the mobile health data, and it uses the common
3 data model, the PCORnet coordinating center, as well
4 as the four CDRNs and the one PPRN.

5 The impact here is in our judgment, both
6 very patient-centered and high. This actually looks
7 at how a diagnostic and available and covered
8 diagnostic tests works in the real world. There are
9 clinical trials which suggests that this a markedly
10 increases the initial rate of response and improves
11 a patient reported outcomes compared to -- not using
12 pharmacogenomic testing, but it has not been tested
13 in a real world clinical population. It is a
14 patient-centered in that it directly addresses the
15 question of how to get to more personalized,
16 effective treatments sooner and also is heavily
17 based on PROs selected by patients from this PPRN.

18 The dissemination as I said, includes -- is
19 extremely good and I'll just leave it at that.

20 So that's the first study. If there are
21 any specific questions about this one, I could
22 answer them now or I will move forward to the next.

1 Okay.

2 So this second study is a study of children
3 with limited juvenile idiopathic arthritis, which is
4 the largest cause of autoimmune inflammatory
5 arthritis in children. So much looks much like
6 rheumatoid arthritis, except that the rheumatoid
7 factor is negative. Limited means that at diagnosis
8 these children have fewer than five joints affected
9 and the question is, does early initiation of a
10 biologic agent in this case, Abatacept, prevent
11 disease extension in children with new onset limited
12 juvenile idiopathic arthritis compared to standard
13 guideline treatment which is initially non-
14 steroidal and articular injections as needed.

15 So population is children two to 16. They
16 have to be detected within six months of the
17 clinical diagnosis and have to be have four or fewer
18 joints affected, must have active disease in at
19 least one joint. They are being recruited by a
20 network of pediatric rheumatologists who are already
21 affiliated with a large national registry that as
22 the children are identified and recruited, they are

1 recruited into the registry and also into this
2 trial. If they join both the registry will collect
3 a large amount of ongoing follow-up data over a
4 period as long as 10 years. So we'll have long-term
5 follow-up in these children.

6 The intervention is usual care plus
7 Abatacept; 24 weeks of Abatacept. And the
8 comparator is the usual care alone. The outcome,
9 the primary outcome is a progression. So a child
10 with less than five joints affected progresses to
11 having five or more joints affected and/or the
12 incidence of inflammation of the uvea, so uveitis.

13 And the secondary outcomes include several
14 patient reported outcomes related to global health,
15 functional ability, pain, fatigue, depression, and
16 others as you see there, but the primary outcome is
17 in fact progression.

18 This is also a randomized controlled trial.
19 This is a fairly rare condition. The sample size is
20 306 patients per arm, and the intervention goes for
21 24 weeks. So you take the Abatacept for 24 weeks
22 and then you stop. So this is not the initiation of

1 long-term Abatacept. Follow-up is 18 months and the
2 cost is \$7 million.

3 The partners, there's three external
4 partners here. One is the pharmaceutical company
5 which is contributing, study drug and also
6 contributing support for some ethnographic work
7 that's being done to better understand and enhance
8 recruitment of these children and their family
9 members. A patient foundation is also engaged and
10 they are very actively engaged. They provide
11 personnel, data sharing, help develop patient and
12 caregiver dashboards and treatment algorithms and
13 they're also very involved in dissemination. Are
14 prepared to be very involved in dissemination post-
15 study.

16 And the third is the disease registry,
17 which provides personnel and technical assistance in
18 maintaining the data warehouse, the software
19 modifications, and actually long-term follow-up.

20 The data integration, obviously then
21 included the registry, the electronic medical
22 record, and the survey data. I should say, one CDRN

1 is involved in this study as well. So it's seen as
2 an alternative source of recruitment and they've
3 engaged the rheumatologist associated with three
4 sites within the CDRN. The common data model and
5 the coordinating center are both involved.

6 And the impact here goes actually beyond
7 rheumatology. So these days in autoimmune diseases,
8 this idea of hitting people with new onset early,
9 early in the course of an autoimmune disease with a
10 potent biologic may have long-term benefit in either
11 preventing progression or even altering the
12 progression of the disease so it may be relevant not
13 only to inflammatory arthritis, but also to, for
14 example, inflammatory bowel disease. There's also,
15 and this is a comment from the reviewers who were
16 very excited about the heterogeneity of treatment
17 effects analysis, which was based on disease
18 severity.

19 So it may not be that all the children
20 benefit from this early aggressive treatment, but
21 perhaps the more severe children do.

22 Again, patient-centeredness. This was far

1 and away the question that patients and particularly
2 their parents were most profoundly interested in.
3 This is the question they brought forward. They
4 would love to understand that there was something
5 they could do early to prevent or slow progression.

6 And again, outstanding engagement through
7 the PPRN and also through the registry that's
8 associated.

9 So that's the second project. And I'll
10 just ask -- yes, Larry and then Barbara.

11 MR. BECKER: So what are the rules of the
12 road around the partners? In other words, and just
13 sort of pick on pharmaceuticals here.

14 Do they have any rights to a non-publishing
15 or you know, if the study doesn't come out because
16 it's their drug -- doesn't come out in their favor,
17 you know, what are the rules of the road here?
18 Because we've had this thing where we say we're
19 going to publish everything good, bad or
20 indifferent. What are their rules of the road with
21 these partners that they pick up?

22 DR. SELBY: Okay. So first of all, we rely

1 extensively on the institutions and in the contract
2 we let them know that we rely on the awarding
3 institutions to have these safeguards against these
4 types of conflicts. So that's first and Mary sort
5 of briefed me on this, to have conflict of interest
6 policies in place. Yes.

7 SPEAKER: [Off microphone.]

8 CHAIRMAN NORQUIST: What are you asking?

9 [Off microphone discussion.]

10 DR. SELBY: No, absolutely not. No, no.

11 DR. LAUER: Larry, these are all funded on
12 our funding agreement, which of course requires that
13 results be publicly made available. They're subject
14 to all the same requirements as all our research
15 studies. They'll be peer-reviewed, they're subject
16 to our conflict of interest requirements, and these
17 will also have additional conflict of interest
18 requirements related to the co-funded activity.

19 MR. BECKER: What got me to thinking about
20 it, it was early in your discussion, you talked ten-
21 year follow-up on the registry. I'm thinking, well,
22 ten years from now, who knows, and that's what made

1 me think about that. Okay.

2 DR. SELBY: I think you're absolutely right
3 to point out, this is the first time -- we have a
4 few studies where pharmaceutical companies have
5 provided drug before, but this is the closest we've
6 come to co-funding studies with pharmaceutical
7 companies, so it's very good question to ask.

8 Barbara.

9 DR. McNEIL: Two questions. The first is,
10 since this has a small number of patients, I'm
11 assuming there's a pilot study to show that the
12 groups can do a run to get the correct number of
13 patients?

14 DR. SELBY: All of these studies, all four
15 of these studies will have that. Will have a period
16 built into the contract where we assess whether they
17 actually can go forward.

18 DR. McNEIL: Okay. And the second question
19 is, I'm a little surprised, and maybe Ellen could
20 talk about this, that this isn't a study that the
21 FDA has already looked at as part of their initial
22 approval.

1 DR. SELBY: There has been a study in early
2 rheumatoid arthritis, so a study somewhat like this,
3 but a much more less of a real world clinical trial.
4 And so, it has appeared --

5 CHAIRMAN NORQUIST: Wait, wait. I just
6 realized. Barbara, you're recused from this. You
7 cannot have a conversation. Thank you. I
8 completely.

9 DR. McNEIL: Sorry.

10 CHAIRMAN NORQUIST: Let's remember
11 Christine, Alicia, and Barbara are recused from
12 this.

13 DR. SELBY: Can I, is anybody else curious
14 about the answer to the question?

15 [Laughter.]

16 CHAIRMAN NORQUIST: I'm curious. Go ahead.
17 I'm not recused.

18 [Laughter.]

19 DR. SELBY: So this has been studied in a
20 smaller clinical trial already and that may have had
21 some FDA involvement. I'm not sure. There is an
22 IND for this study, but they are not, they are not

1 seeking a -- what they've told us is that they are
2 not seeking a change in indications. They feel that
3 this is so closely watched by the rheumatology
4 community that if the study is positive, it will
5 take off on its own.

6 So they are not seeking a change in
7 indication.

8 DR. SIGAL: So why are they not requesting
9 a label change?

10 DR. SELBY: I think it's because they, my
11 understanding from what the investigators told us
12 was that they -- this is a burning question in
13 rheumatology right now and they feel like it's not
14 essential to get a label change if the study shows
15 that in fact it works, that it will be picked up
16 very quickly without that.

17 DR. SIGAL: Well, that gets into another
18 whole issue that's a big mess. But the problem is
19 you've heard Scott and Janet and we've been working
20 on label indications and updating labels, but if in
21 fact this is positive and there's data, in fact,
22 there should be label indication on this because

1 that will have changed practice.

2 In rheumatology, particularly in cancer,
3 we have -- we can debate about NCCN guidelines and
4 ASCO deadline guidelines, but we have a lot of
5 professional societies, though this kind of
6 infrastructure I'm told, does not exist in
7 rheumatology. So they're very one off. So I, you
8 know, it'd be interesting to see the intent.

9 DR. SELBY: We can definitely. -- we can
10 definitely, as we negotiate this, we can definitely
11 follow-up with them and get clearer information on
12 exactly what their thinking was about why to not go
13 forward at this time.

14 DR. SIGAL: Yeah, because this is already
15 an approved agent; right?

16 DR. SELBY: Yes.

17 DR. SIGAL: So this is not a registration
18 but maybe a new indication. There must be some
19 reason for them to do this. It is important
20 research, but it is a little -- some things are a
21 little bit odd about it, but if it is a positive
22 study, one would want and expect a label change.

1 DR. SELBY: Good.

2 CHAIRMAN NORQUIST: [Off microphone.]

3 DR. SELBY: Okay. We'll go on into the
4 third study. Now this, you have to completely
5 change your mindset because this is a totally --
6 this is not about pharmaceutical, this is not an
7 individual -- well, one of these two trials is
8 individual level trial, but the primary study is a
9 system level intervention. This is about a national
10 program to help delivery systems improve blood
11 pressure control in their entire populations.

12 It is a program that's been put into place
13 by a large national, physician organization which
14 will go unnamed, and a large national disease
15 focused -- cardiovascular disease focused
16 organization which will go unnamed.

17 So the first trial we call the Clinic RCT
18 or clinic trial. This compares how to do this, how
19 to roll out this program of blood pressure control
20 to clinics and institutions. So different clinics
21 in institutions will do it somewhat differently, but
22 basically it benefits from having data from having

1 champions from disseminating guidelines. We're
2 working on both a patient adherence to drugs and
3 what's called clinical inertia. That is the
4 reluctance of physicians to augment a treatment in
5 the face of poorly controlled blood pressure.

6 So in this trial -- well that's -- let me
7 just say what the Device RCT is now and then I'll
8 get back to the precise intervention.

9 The device trial compares home blood
10 pressure monitoring with a standard home blood
11 pressure cuff to home blood pressure monitoring with
12 a standard cuff that is Bluetooth enabled so that it
13 can prepare enhanced reports of blood pressure
14 levels over time for the patient and for the
15 patient's physician. So standard cuff versus
16 Bluetooth enhanced cuff with reports.

17 So the study population is in the Clinic
18 RCT. These are willing clinics from two PCORnet
19 CDRNs who have said that they have multiple sites
20 who would be willing to participate in this program,
21 this national program of blood pressure control
22 improvements. All adults then are considered,

1 they're not reached out to or approached. They are
2 simply the denominator of the rate, which is the
3 outcome that is blood pressure control. And all
4 adults who have had at least one outpatient
5 encounter with a diagnosis of hypertension in the
6 past year.

7 And the population in the device randomized
8 control trial actually comes from four CDRNs and
9 these are adults who have blood pressure that is not
10 well-controlled and have at least one ambulatory
11 visit and who own a smartphone, because a smartphone
12 is part of the receiving the Bluetooth reports.

13 So the intervention and comparator. In the
14 clinic trial, the intervention is full support which
15 means sending a practice facilitator to the sites.
16 So this is a question that's of relevance to the
17 national physician and patient advocacy
18 organizations. Do they need to actually put boots
19 on the ground and have people show up in these
20 clinics to work with clinic staff or is the less,
21 expensive, less invasive self-serve support method,
22 which is a combination of printed materials and an

1 orientation Webinar for program staff? So two
2 levels of intensity of this program intervention.
3 The device trial is again the Bluetooth enabled
4 blood pressure cuff versus the standard home blood
5 pressure monitoring cuff.

6 So the outcome of interest in the clinic
7 trial, it's simply the proportion of patients who
8 are in control of their blood pressure among all
9 patients with a diagnosis of hypertension at each of
10 the clinics and for the device trial it's did the
11 patient -- so remember in the device trial these
12 patients have been recruited, their clinicians are
13 contacted, so you know the individual blood pressure
14 target. And so, it's did they obtain blood pressure
15 control?

16 Secondary outcomes are numerous including
17 the magnitude of the blood pressure reductions and a
18 measure called the measurement quality index, which
19 is a proportion of clinic visits with at least one
20 uncontrolled blood pressure reading, the therapeutic
21 inertia index, a measure of it, and the adherence
22 index, which are measures of clinician and patient

1 adherence.

2 Study design is a cluster randomized trial
3 in the clinic trial and individual level randomized
4 trial to study the device. Twenty clinics are
5 randomized, ten to each arm in the clinic trial,
6 2,000 patients are randomized, 50 percent each in
7 the device trial. The clinic trial has a duration
8 of 18 months and the device trial a duration of 12
9 months. And follow-up is also at 18 and 12 months
10 respectively. And the total project cost is \$6.5
11 million.

12 The external partners in this include those
13 two entities, the very large disease advocacy or
14 cardiovascular disease focused organization and
15 they're contributing personnel, overall study
16 support, and travel expenses. And the same can be
17 said for the very large physician advocacy
18 organization. And the total contribution from them
19 is \$1.5 million. A common data model is extensively
20 used to calculate all of these measures of blood
21 pressure control in both studies; in the clinic
22 trial and also in the individual level trial.

1 There is also patient reported outcomes in
2 the blood pressure control trial in the device trial
3 and data from the device that's integrated. And
4 again, the coordinating center, as well as the
5 common data model as well as four CDRNs. And one
6 large PPRN are involved in this. Smart IRB is used.
7 And also one collaborative research group, the
8 Cardiovascular Disease Collaborative Research Group
9 is heavily involved in this proposal.

10 CHAIRMAN NORQUIST: Larry.

11 MR. BECKER: I just have a curious question
12 and that is, is the question of blood pressure
13 accuracy at home readings versus clinic readings a
14 settled question.

15 DR. SELBY: You know you could probably ask
16 the next speaker after me, Adrian, but I think what
17 is known is that home blood pressure measurements
18 are better predictors of heart disease outcomes than
19 clinic reported blood pressures, which would tend to
20 say that home blood pressures do as well or better
21 at capturing a person's true blood pressure. The
22 true variable that matters.

1 DR. DOUMA: Joe.

2 DR. SELBY: Yes, Allen.

3 DR. DOUMA: A couple of questions related.
4 How does blood pressure control differ from
5 attainment of individual blood pressure goal? And
6 part two --

7 DR. SELBY: The latter would be just a
8 little more patient tailored. The individual level
9 control might be, for example, if the person was
10 elderly or if they had diabetes or if they had
11 kidney disease, they may have a different goal than
12 somebody who was not. And this would be worked out
13 with the clinicians, so the clinicians are a part of
14 this trial and otherwise you'd take standard
15 recommendations and you apply them to the entire
16 population.

17 DR. DOUMA: But why wouldn't, why wouldn't
18 we do that -- individualize blood pressure goals for
19 both the device trial and the clinical trial? Why
20 change it?

21 DR. SELBY: Because we're not talking --
22 the first one is completely electronic data study

1 and so you don't know what the physician and the
2 patient have agreed to.

3 DR. DOUMA: Okay. And do we have any
4 concerns about having blood pressure too low? So if
5 somebody reaches there, they attain their goal, but
6 there are too low.

7 DR. SELBY: You know, I don't think that
8 was addressed. It's not a large problem. It's not
9 like blood glucose control, which is to well-
10 controlled sometimes. Mike, if you want --

11 SPEAKER: One thing that was interesting
12 even though the blood pressures that were attended
13 were very aggressive, there didn't seem to be harm
14 from bringing the blood pressure down "too low."
15 That's not the problem. The problem is that we
16 can't get the blood pressure down low enough.

17 DR. SELBY: Okay, I'm going to move on. If
18 there are no other questions, move on to the fourth
19 project. Now we're switching to, for the first time
20 an observational study. So this is -- part of it is
21 a big data study and part of it is an observational
22 cohort study that actually involved identifying and

1 recruiting patients but not randomizing. So this is
2 a little complex because there are two diseases.
3 What I say about one is, is very similar to what I
4 say about the other, but there's a Crohn's Disease
5 study and an ulcerative colitis study. This comes
6 from our Crohn's and Colitis -- the PPRN, which
7 includes patients with those conditions. And the
8 question in each case is what is the comparative
9 effectiveness of second line biologic agents? And
10 the comparison is between two that are used in this
11 disease and Crohn's disease, Vedolizumab and
12 Ustekinumab among patients who are either non-
13 responders to initial therapy with anti-TNF alpha
14 drugs or who have become non-responders overtime,
15 who's response has failed.

16 So about 30 percent of patients, all
17 patients fail to respond initially and over 50
18 percent of those who respond initially ultimately
19 reach a point where they no longer are responsive.
20 And that's true in both conditions. So you can see
21 that it's the majority of patients with each
22 condition who will at some point in their experience

1 of the illness will be eligible for this study.

2 The ulcerative colitis study is a very much
3 the same except that the Vedolizumab is used again
4 and the other agents is this time of small molecule
5 called Tofacitinib. These are adults, and as I
6 said, they are people who have been nonresponsive or
7 lost responsiveness to the initial biologic, which
8 is anti-TNF alpha. And I've already gone through
9 the interventions for each. Both our studies in a
10 new users. So in both of these cases electronic
11 data are used to identify people just beginning --
12 just a starting these agents.

13 So in the prospective cohort study, and
14 it's true for both Crohn's and Ulcerative Colitis,
15 patients are being recruited from two of PCORnets
16 health plan research networks, and also from a very
17 large national multicenter cohort of people with
18 adult IBD at the time they start one of these
19 agents. And longitudinal collection of clinical and
20 patient reported data is then conducted following
21 the initiation of their agent. And this
22 longitudinal data collection uses among other

1 sources, the PPRNs portal. So the large PPRN has a
2 portal and a survey system that will be used to
3 collect the patient reported outcomes.

4 In the retrospective study, this is based
5 completely within the health plan's data and there
6 patients are followed for continuation of treatment
7 for hospitalizations and for surgery. So that
8 there's no patient contact in this retrospective
9 cohort study.

10 The sample sizes in both Crohn's and
11 Ulcerative Colitis. The perspective study will have
12 382 patients. That's an estimate of at least 382
13 patients. And the retrospective study, the estimate
14 is it'll be nearly a thousand patients with each
15 condition. And the outcomes in the prospective
16 study, it's a battery of patient reported outcomes
17 related to pain interference and fatigue six months
18 after treatment initiation also, whether they were
19 able to continue their treatment for at least a
20 year. And the secondaries are more domains of
21 PROMIS instruments related to sleep disturbance or
22 dissatisfaction, anxiety and depression, and a

1 symptom index.

2 And again, in the retrospective study, the
3 only outcomes are those that can be collected from a
4 secondary data. So all cause hospitalization, need
5 for abdominal surgery, and the persistence or
6 treatment at one year. The prospective study is a
7 26 weeks in duration. The retrospective study is a
8 year in duration. And total project cost is \$2.4
9 million.

10 The external partner is the foundation that
11 sponsors the PPRN and they are contributing a
12 \$820,000 in the form of a patient engagement work
13 and support of the cohort, and the PPRN itself. The
14 integration is met by integrating clinical data from
15 EMR's claims data and a patient reported outcomes
16 data, I shouldn't say clinical data from health
17 plans, not EMRs and patient reported outcomes. Two
18 PPRNs are involved, two health plan research
19 networks, and the coordinating center.

20 And the impact here is essentially these
21 are relatively new agents and there's very little
22 known about the relative -- and they are expensive

1 agents, very little known about the comparative
2 either effectiveness or side effects of these new
3 agents. So this is really an early look at how
4 these agents perform in real world settings for
5 patients who have failed first line treatment or
6 stop responding to it. It's a knowledge gap that
7 patients were very quick to point out, highly
8 prioritized by the patients in the PPRN, and the
9 outcomes were selected by patients. And again,
10 thanks to the PPRN a really strong, engagement plan
11 and dissemination plan.

12 So any questions about this observational
13 study? Yes.

14 DR. McNEIL: So --

15 CHAIRMAN NORQUIST: Barbara you're recused.

16 DR. McNEIL: I'm recused, oh my goodness.

17 So can somebody asked my question?

18 [Laughter.]

19 DR, SELBY: One thing that's not on here, I
20 just wanted to add is that these are observational
21 studies and they have recruited a really world
22 class expert in causal inference in observation

1 study designs to help manage this one, so it didn't
2 make it to the slides, but it's true.

3 MS. HOLE-MARSHALL: I just wanted to say
4 this is the first time the Selection Committee has
5 seen these group of studies through the targeted
6 PCORnet and it was really a pleasure to get to
7 listen to them and to see some of our processes
8 starting to mature in that way and I know it took a
9 lot of work on staff time to get these into our
10 cycle. So for those on the Board that aren't in the
11 details of some of those processes, these are the
12 first time you're seeing studies that have come
13 through Merit Review as well as our other processes
14 that we use for selection and it was great and we
15 look forward to continuing to work on that too.

16 DR. SELBY: Yeah, thanks.

17 CHAIRMAN NORQUIST: Thanks Leah. Anybody
18 else? Bob?

19 DR. ZWOLAK: So I have a comment and
20 kind of a blue sky question, the comment is I
21 really support testing these small molecules. I
22 think they have the opportunity for significant

1 breakthrough in these people with this terrible
2 inflammatory bowel disease and Crohn's, which can be
3 just an awful disease. The blue sky question is, is
4 there a 20 PPRNs, we're funding for these -- what
5 does this say about the fate of the other PPRNs and
6 there weren't even that many. There are 20 PPRNs,
7 there weren't even 20 applications or only something
8 like 20 letters of intent and 14 invitations and
9 then 10 applications. What does it say about the
10 health of the other PPRNs?

11 DR. SELBY: Great question. And thanks.
12 First of all, I would say we were, we were pretty
13 gratified at the ten, or the 16 letters of intent
14 that we received in the end, the 10 applications
15 because there were a lot of demands. I mean one had
16 to rush out and, and, and find stakeholders that
17 would be willing to co-fund in a matter of, you
18 know, maybe four or five months. So. So that was,
19 that was tough. One had to get a good proposal
20 together. I think some really did opt not to not to
21 apply.

22 Another thing to be said, Bob, is that we

1 also have kind of a different line of funding called
2 the learning health systems funding four PPRNs and
3 there are four PPRNs involved in this. I don't
4 believe there's much overlap between the four that
5 are in that. And you know, this is add on funding
6 to the infrastructure funding.

7 Having said all that as the People Centered
8 Research Foundation takes over managing the
9 infrastructure. There will be an examination of the
10 role of both CDRNs in PPRNs and it's not entirely
11 clear that all 20, in fact, two of them have opted
12 not to go forward in the next round. The PPRNs have
13 been a challenge to work a work into this. And I
14 think, you know, we were very gratified that four of
15 them kind of proved the concept that they can and
16 just suggest that others could follow their model.
17 And in due course, find a partner, find a research
18 question and come back to PCORI proper or
19 go elsewhere.

20 CHAIRMAN NORQUIST: Okay. Any other
21 questions about these grants that's been were
22 proposed? Allen or Harlin?

1 DR. DOUMA: No.

2 DR. KUMHOLZ: No, no questions.

3 CHAIRMAN NORQUIST: I need a motion to
4 approve it. All right. So, let's see. Ellen you
5 can be the second. Okay. All right. So Ellen will
6 be the one who moved it and we'll let Mike be the
7 second. Okay. There we go. So all those in favor
8 raise your hand and anybody opposed and abstaining?

9 On the phone, Allen?

10 DR. DOUMA: Aye.

11 CHAIRMAN NORQUIST: Harlan?

12 DR. KRUMHOLZ: Aye.

13 CHAIRMAN NORQUIST: Okay. So we're going
14 to move back to where we were on the PCORnet update,
15 but we need to skip down because I understand Dr.
16 Masala you have to leave soon. So we'll let you go
17 first. Okay.

18 DR. MARSALO: Thank you.

19 CHAIRMAN NORQUIST: I think he was going to
20 have you go up there. Joe was going to sit over
21 here and go up there, if you all go up there, all of
22 you can just go up there and just kind of --

1 DR. SELBY: It's my pleasure to introduce --

2 CHAIRMAN NORQUIST: I mean, if you want to
3 sit here, it's okay too, but -- all right. Adrian
4 just go on up. Go on up.

5 DR. SELBY: It's my pleasure to introduce
6 Dr. Keith Marsolo and he has got to leave in 25
7 minutes, but Keith is the chair of the Data
8 Committee of PCORnet and from Cincinnati Children's
9 Hospital, as you see, really been a real pillar and
10 mainstay of PCORnet particularly around the common
11 data model and the data efforts. Thanks for being
12 here, Keith.

13 DR. MARSOLO: Sure, no problem. And I
14 apologize for having to call an audible on the
15 slides, but I appreciate it.

16 So, just to, I guess, reorient everybody as
17 to why at least this part of the presentation is on
18 today, so, at a previous board meeting there was
19 essentially a request on the possibility of a
20 searchable tool in the public domain to inform study
21 feasibility and provide information on the
22 conditions of interest.

1 And so, this presentation is essentially
2 background on PCORnet's current capabilities and
3 some, essentially, potential options for the future.
4 So, just wanted to talk about what we're doing today
5 and then what we might be able to do going forward.

6 So, when we talk about PCORnet and creating
7 a PCORnet, our data strategy is to first standardize
8 data to accommodate a model, then there's a whole
9 lot of work that goes into understanding the quality
10 of the data through a process we call data curation,
11 and then when it comes to actually running the
12 queries, we operate a distributed query
13 infrastructure where we have reusable parameterized
14 tools that we use to query the data and essentially
15 what goes to the partners is the question and then
16 what comes back are the aggregate results and the
17 summary statistics and that allows us to operate and
18 ensure patient privacy and things like that.

19 And we have an iterative cycle of learning
20 and improvement and the sort of infographic that we
21 have around PCORnet, essentially there's a front
22 door, the requestor comes with a question that gets

1 turned into a query, the query gets sent to the
2 network, they run the query, look at the results,
3 send those back to the coordinating center, they get
4 aggregated, and then returned to the requestor.

5 So, the tools that we have, essentially,
6 the way that you can think about it, essentially,
7 there's a type of question you might want to ask
8 many times is we have the question, the study
9 design, it then becomes parameterized where you can
10 essentially substitute, you know, for diagnoses or
11 age ranges or things like that, and it allows us to
12 rapidly iterate to our queries.

13 The three main tools that we have for
14 running queries within PCORnet, essentially they go
15 really from simple to complex. So, the simplest is
16 a menu-driven query, which is essentially a point
17 and click interface that can be used to define
18 cohorts based on things in the common data model,
19 output can be stratified by things like age group,
20 sex, race, ethnicity, and then we have the more
21 complex PCORnet Modular Programs, or PMPs, that we
22 use to assess more information, things like rates,

1 those are probably a little more kind of configure
2 and deploy, and even further we can do these Cohort
3 Quality Assessments, or CQAs, that we can use to
4 identify the quality of data within a given cohort.

5 And so, as an example of a menu-driven
6 query, this was a fairly complex query that came
7 through the front door looking at heart failure with
8 preserved injection fractions. Essentially within a
9 couple of days, we were able to turn the question
10 into a query, distribute it to the partners, we give
11 the partners a certain amount of time to respond,
12 this case it was five days, and then a day to
13 compile the report, so we were able to turn the
14 query from a question to a report in eight business
15 days, and you can see sort of a blown out subset of
16 what was included in that, but it was things like --
17 we had co-morbidities, procedures, medications, and
18 this is an example of the medication usage within
19 that cohort.

20 So, that was essentially what -- like a
21 whirlwind tour through the current capabilities of
22 PCORnet, and so when we talk about the technical

1 infrastructure that we've set up, it's really been
2 driven by a series of governance decisions, so these
3 were conscious decisions that the network made when
4 we were getting started, so things like the queries
5 would be distributed by the coordinating center,
6 network partners or sites within the network can
7 decide to run the queries and to return the results,
8 and then partners would have a standard window to
9 return results.

10 And so in this case it was ten business
11 days, and the example I showed previously, that was
12 five, because it was a rush, but the standard is ten
13 business days.

14 And so, the infrastructure that we've
15 created is really designed to support those
16 governance decisions. And so, when we talk about
17 potential options for the future, we have the
18 opportunity of revisiting that governance and
19 thinking about some different approaches. And the
20 ones that I'm going to step through quickly, one
21 example would be the development of a five or ten
22 percent sample database, querying of some of our

1 data curation or data quality results, and then more
2 rapid turnaround of simple queries.

3 So, when we talk about an X percent sample
4 database, you know, the idea here would be partners
5 would create a de-identified or anonymized subset of
6 the common data model for a certain percentage of
7 their population that would be submitted to a
8 centralized repository that could then be used -- we
9 could put the query on top of that.

10 And the benefits of this, is this is a
11 real-time -- would allow real-time response and it
12 could, in theory, allow public access. I think
13 there's a few drawbacks here, so one from the
14 partners contributing the data side, there would be
15 concerns about the misuse of the data, in particular
16 the risk of re-identification, loss of
17 confidentiality, and in terms of -- you know, that
18 may require some risk mitigation on behalf of the
19 CRF or PCORI.

20 The cost to develop and validate the
21 methods for sampling and de-identification, this is
22 non-trivial, and it's likely that partners would

1 require their own subsequent validations to ensure
2 that it's working correctly, and then the
3 development and hosting costs of this new query tool
4 also have to be taken into account.

5 And I think one of the things to note about
6 this opportunity in particular is that the new
7 common rule changes some of the regulations around
8 the reuse of EHR data for research, and depending on
9 how that gets interpreted by IRBs going forward,
10 this option may actually become a little bit more
11 tractable than it would be today.

12 So, when we talk about sort of option two
13 of querying our data curation results or our data
14 quality results, so the coordinating center, every
15 time the partners refresh their data, they send back
16 a set of data curation results which are in the
17 forms of aggregate -- hundreds of aggregate or
18 univariate statistics that can be used to describe
19 the content of the common data model. And so, we
20 can certainly think about sharing these data more
21 broadly to be used to answer simple questions about
22 what's in the data, what kind of population may

1 exist, and give a basic overview of the aggregate
2 PCORnet population.

3 And so, the benefits of this approach is
4 it's a relatively low cost, low implementation
5 burden solution. The data already exists. People
6 are already running these queries. And then since
7 the data exists as aggregate statistics, that helps
8 mitigate some of the partner concerns that exist
9 around re-identification. And, again, it's real-
10 time access to the information. The refresh is not
11 in real-time, so there's some delay in terms of the
12 latency of this information, but access can
13 certainly be real-time.

14 I think the big drawback to this approach
15 is simply that the data curation results as they
16 currently exist are only for single criteria or
17 single variable queries, so number of females,
18 number of patients with diabetes, not number of
19 female patients with diabetes.

20 Now, we can also look at creating some
21 additional canned reports on specific topics or
22 populations that could be made available to provide

1 greater insight.

2 And then, finally, when we talk about
3 option, three, which is really more rapid turnaround
4 of simple queries -- so, the menu-driven query
5 example that I showed with heart failure, you know,
6 we can take some steps to increase through put
7 through the network. So, one change would be we
8 could certainly allow additional authorized users to
9 generate and submit menu-driven queries beyond those
10 people in the coordinating center. We can modify
11 the process so the simple queries auto exits you and
12 the results get returned without review instead of
13 allowing, you know, partners a certain number of
14 days to review the results and send them back, that
15 can just happen automatically.

16 The benefits to this is it reuses the
17 existing infrastructure, our query response time,
18 instead of days, it's sort of seconds, minutes, or
19 hours, and this is similar to established approaches
20 in other existing networks like Trinetics or the
21 Accrual Clinical Trials, or ACT Network.

22 Sort of the drawbacks, there's some changes

1 to the existing governance policies, so I mentioned
2 sort of how governance works today, that would need
3 to be changed, and then some additional costs to
4 modify network infrastructure, to modify the status
5 as things become more real-time in terms of a
6 network, it just requires more monitoring to make
7 sure that the systems are always up, and then
8 there's some additional technical support costs for
9 having to manage and to train users.

10 So, just to sort of summarize, you know,
11 option one, the X-percent sample, is really the
12 solution that's kind of closest to what you would
13 consider to be a searchable tool in the public
14 domain. However, the development costs to that area
15 really non-trivial and there's going to be some
16 serious concerns about partners for the reuse of the
17 data.

18 Option two, in terms of querying the data
19 quality results, while limited, it does actually
20 provide some insight into the data behind PCORnet,
21 so if there's a concern around, you know, how do we
22 advertise sort of what's there, this starts to pull

1 back the curtain and provide insights into what's in
2 the network.

3 And then option three, tracks activities in
4 networks like ACT and then you can even take it a
5 step further in terms of allowing other authorized
6 users to query the network. If you start to open
7 the door to funders or industry among those users,
8 that starts to look like the Trinetics model.

9 All options are going to increase the
10 overall infrastructure cost for PCORnet and we
11 believe that option two is going to be probably the
12 lowest cost, but I think one of our takeaways of
13 this is just it's important to figure out the --
14 sort of the external demand and how the selection of
15 these different options might affect the
16 marketability of PCORnet.

17 And then the last thing that I'd mention
18 before I close is really these choices are not
19 mutually exclusive, so we could certainly implement
20 one, you know, the low cost option two, if we
21 thought that was the best route, and then decide
22 among the others at a later date.

1 CHAIRMAN NORQUIST: So, let's open it for
2 questions now, is that all right? Okay, so Barbra?

3 DR. McNEIL: [Off microphone.] A couple of
4 questions. I'm a little confused. I thought the
5 infrastructure that PCORI was providing to PCORnet
6 actually took care of the costs of providing sample
7 sized data, and yet you seem to indicate that the
8 development costs for doing this are non-trivial.
9 That's question number one.

10 And question number two I didn't understand
11 is that the concerns about the partners about reuse
12 of data -- it's my understanding, CMS has a
13 longstanding way of dealing with this that any time
14 you get a sample size of, say, less than five, then
15 you just don't provide those data. If it's greater
16 than five -- or whatever the number is -- if it's
17 greater than that, there's no chance that there
18 could be any patient identification. So, maybe you
19 could talk about both of those.

20 DR. MARSOLO: Sure. So, the way that the
21 network operates today is essentially that the
22 partners are funded to create essentially a full

1 population CBM that sits local at their institution.
2 So, there's efforts that they go to to essentially
3 extract data from the EHR into the common data
4 model, that sits locally, and then is used to
5 respond to queries.

6 So, there's not a sense of a sampling
7 algorithm that says of the population that you have
8 in the EHR, you're going to pull five percent or ten
9 percent, from that data set -- if that makes sense.
10 And so the full population of every institution,
11 every institution's EHR, is in the common data
12 model, and when we submit queries, the queries run
13 against that full population.

14 DR. McNEIL: So, I don't -- I guess maybe
15 I'm dense because I haven't had enough iced tea, so,
16 what's the extra cost there? I don't understand
17 that.

18 DR. MARSOLO: So, the cost would be -- so,
19 if you were to say -- and in most places that exists
20 as a limited data set, right, so that's a data set
21 that has dates and has identifiers in it, and the
22 queries come and then what goes back are aggregate

1 results and summary statistics.

2 So, when you start talking about, can I
3 take a slice of that dataset and ship it to PCORI,
4 or some other third party, to sit and be aggregated
5 for future queries as yet undefined, that starts to
6 make the partners nervous because it's different
7 when the data sit behind their firewall and they can
8 look at the queries that come in and then look at
9 the queries that go back out and make sure that it
10 sort of is doing what they want.

11 Once it goes outside of their walls, in
12 some senses they lose control. I mean, there's
13 things you can do to make -- have PCORI or whoever's
14 holding the data sort of be the one that's
15 responsible for that and then they hold the risk if
16 something goes wrong, but it's generally -- it's
17 very different if you're -- if the query comes in
18 and I can understand the questions being asked as
19 opposed to I'm providing data and then I have to
20 essentially trust. That's where, when you want to
21 talk about then a dataset where you're going to do
22 sampling, it's a question of, you know, how are you

1 doing the sampling, what are the fields that would
2 then be included in that extract, and it's
3 essentially the cost of developing that is not zero
4 is basically it.

5 DR. McNEIL: So, I don't want to drag this
6 on, but I think it might be useful to have a
7 separate discussion about this when you have more
8 time, because I know you're running out, because it
9 strikes me that this is not so different than what
10 CMS does with Medicare data and what the ResDAC does
11 with data that they present, and I'm a little
12 confused about why this would be different?

13 CHAIRMAN NORQUIST: Adrian, do you --

14 DR. HERNANDEZ: Yeah, so like using a five
15 percent sample for CMS, so that goes through
16 extensive processing before getting to a five
17 percent sample that could actually be used in a more
18 public way. It's only to be purchased, but again it
19 goes through processing that's different than, say,
20 what institutions can do in terms of purchasing a
21 sample for a specific cohort for which they have
22 greater access to, say, PHI, so that's the contrast

1 between the two.

2 The second thing, like as an example, it's
3 like for say clinical trials that say we're running
4 for NIH, when we're putting together a dataset that
5 can be deposited publicly, there's extensive
6 annotation so it can be used by anyone and also
7 extensive processing so it can be used by anyone as
8 opposed to, say, the raw dataset that's used for
9 analytical purposes.

10 DR. McNEIL: Maybe I just could repeat my
11 request, Joe, I really think it would be nice to
12 have a more detailed discussion about this because I
13 still don't get it and I actually do know a lot
14 about data and Medicare data and this is just
15 escaping me.

16 CHAIRMAN NORQUIST: Wait, wait, wait, why
17 don't we do that. But you had a second question
18 too.

19 DR. McNEIL: No, the second question was --

20 CHAIRMAN NORQUIST: I want to be sure that
21 before you run out --

22 DR. McNEIL: The second question was the

1 concern about the cost. And the second was about
2 the reuse when the sample sizes can be easily
3 defined as don't do anything if they're less than X,
4 then there can be no chance of re-identification,
5 but I think these are probably worth a much longer
6 discussion with sort of a systematic review of
7 everything and not have to rush through them now.

8 DR. SELBY: I think that's a good idea,
9 Barbara. One thing to be said is that, unlike CMS,
10 which has been being asked for data for decades and
11 has finally gotten around to figuring out ways to
12 share it, these are healthcare delivery systems whom
13 -- some of whom just are participating in network
14 kinds of research with EHR data for the first time,
15 so they are a naïve, young, green group of
16 institutions compared to a CMS-like institution, and
17 you can't just -- and they have extraordinary
18 concerns about the proprietary privacy as well as
19 the individual patient privacies.

20 DR. MARSOLO: Yeah, and I just think, in
21 closing, again, it's not to say that it's not
22 possible, I think it's just to say that it's not

1 free, and I think it's going to take some thought to
2 sort of develop the procedures and everything else
3 that's going to be needed to execute it.

4 MS. TROEGER: Well, I certainly support --
5 thank you for your presentation and I support what
6 Barbara said about this requiring a little more time
7 and just the ability to work through this
8 thoughtfully.

9 As someone who's been a tremendous
10 proponent of let's get in and see what PCORnet can
11 do quickly to return results out to others, I'm
12 probably closer to option two or option three, but I
13 share your concern or the thought that if you are
14 exporting datasets versus keeping things behind a
15 firewall, behind a clean room within the CDRN
16 itself, then it could just be queries -- how many
17 diabetics in your population are on sulfonamides
18 versus this or that.

19 Things very simple like three string
20 queries, and I saw that some of them seem to be
21 limited to one, you could find out how many were
22 women, but not how many women were on Metformin or

1 something, in a population. I don't know that that
2 would be useful, but somewhere so that the integrity
3 of the data sits within versus an export one
4 percent, five percent, twelve percent where you've
5 got the HIPAA concerns and everything else, shipping
6 out would be something I'd like to explore.
7 Similarly, how it complements versus competes with
8 the CMS versus the AHRQ inpatient of the HCUP
9 datasets and some of the other pieces so that the
10 power of PCORnet can be accessed, and Alicia, I
11 think you've spoken really eloquently in the past
12 about the California sample that allows you to get
13 in, do some quick stuff, and get an idea, can I do a
14 study within this network looking at this
15 population.

16 DR. ZWOLAK: So, I also appreciate this
17 great presentation and would amplify the previous
18 questions, but also, I guess, the question for me
19 is, is your report today informational only or are
20 you expecting some advice or informed response from
21 us, and if the latter, it seems to me that some
22 information would be required about how much the

1 incremental expense is for these options.

2 DR. MARSOLO: Yeah, I think at this point
3 it was mainly informational in response to the
4 previous query. I think, again, as we look towards
5 PCORnet and the transition, all of these options --
6 any of these options increase essentially the
7 operating costs of the network and I think as we try
8 to figure out how to make the network be the best
9 steward of its money, think that's where we would
10 want to figure out which of these options is going
11 to help the marketability of PCORnet and the
12 sustainability of PCORnet going forward and we would
13 sort of want to make a decision in that area.

14 SPEAKER: Just to take a step up, what
15 you've been able to do, the kind of queries you've
16 been able to run, the megasize of the data and the
17 way you've been able to develop this common data
18 model across literally tens of millions of people,
19 it's really downright amazing, and I think that's
20 something that we need to keep in mind while we're
21 -- this is a lovely problem to have, to think about,
22 you know, which of these options we're going to use

1 to query data -- high quality data on 80 million --
2 I'm probably underestimating -- however many
3 millions of people you've got, it's -- I think
4 that's important to keep in mind.

5 DR. SELBY: So, I think that when the Board
6 first raised this, we were seeing -- and Barbara,
7 correct me if I'm wrong, or Kathleen -- I think we
8 were seeing it as a real asset that would actually
9 enhance the familiarity of, for example, funders or
10 researchers with PCORnet, and actually drive
11 increased utilization. I think that's actually a
12 point that we probably could use a little data on
13 and some more discussion between the Board, and I
14 don't think I succeeded in making that case when I
15 took the notion to them, and so Keith is giving you,
16 well, this would cost money response, and it would
17 cost some.

18 I think part of the Board's thinking was
19 that it would make money too --

20 MS. TROEGER: That there would be a
21 willingness to pay.

22 DR. SELBY: Yep.

1 MS. TROEGER: So, with a willingness to pay
2 for the data --

3 DR. SELBY: Yeah, so --

4 MS. TROEGER: -- came some of the support.
5 I mean, licenses to some of these more privately
6 held more SQUARE datasets and IBM Watsons are
7 tremendously expensive, so if there was a way to
8 poll this, I think that was -- people might do
9 rather quickly and inexpensively.

10 DR. SELBY: Barbara's suggestion is --

11 DR. McNEIL: I think we definitely need
12 more information. I think the devil is in the
13 details here, and there are lots of data, and even
14 though I understand data, I really would benefit a
15 lot more from having a lot more information, so to
16 systematically put down an understanding, what's at
17 the local site, what gets aggregated, what does it
18 cost locally, what costs are consumed when the data
19 are aggregated, what the concerns are locally, what
20 the concerns are in an aggregated fashion, who has
21 access to these data, for what cost, under what
22 circumstances.

1 At this point, it's probably a wonderful
2 resource, but it's too opaque for me to appreciate
3 that.

4 DR. SIGAL: I just want to say, being very
5 familiar with IMEDS and the central database and
6 what we have done at FDA, I mean, we have spent over
7 \$25 million, maybe \$30 million just on methodology.
8 Now we have a user model that is being used by
9 companies, and it's expensive, it's way more
10 expensive than we thought it was going to be. And,
11 you know, we have Harvard Children, we have the
12 network, and to do these sophisticated studies, and
13 I don't know whether it's the same or not, but I can
14 tell you, it's -- this is not trivial at all.

15 So, good work, and lots of stuff that needs
16 to get done, but I know the complexity of this.

17 DR. FERNANDEZ: Thank you. I'm wondering
18 what sort of information we need in order to have a
19 more considered discussion, particularly around
20 option one. And I'm wondering how we can get that
21 information, because I don't think it's -- I think
22 Barbara just outlined a whole series of excellent

1 questions, some of which need to be answered before
2 we have that information, some of which can wait.

3 And I'm wondering whether it would make
4 sense to actually contract with someone to see what
5 -- not only what it would cost, but what it would
6 look like, what the timeframe would be, what the big
7 decision points would be, so on and so forth, in
8 order to get to option one, because I suspect it
9 would not be an easy question for you all to be able
10 to answer without making -- without it taking a good
11 deal of your time.

12 So, in the interest of that, someday we're
13 going to want to get to option one, what does that
14 look like?

15 SPEAKER: I think that there are two things
16 with option one that -- just following on Alicia --
17 you know, one is how much it actually will cost, and
18 it will cost a lot, and I think that the second item
19 is the one that's really more concerning, which
20 doesn't have to do with cost, but it has to do with
21 the fact that as, Adrian, I think you said, or PJ,
22 maybe you said it, that once the data leave the

1 firewall, then that creates a whole new set of very
2 serious anxieties.

3 Then I think another part of this, if I
4 understand this right, is that, maybe more for
5 option three, because you say there are funders in
6 the industry, that the idea of option three is that
7 it not only provides useful information and answers
8 queries, but I begins a conversation which could
9 then lead to more research down the line, right?

10 DR. MARSOLO: Right, and I mean,
11 fundamentally from a PCORnet perspective, I think in
12 some senses you want to have the self service tool
13 to be somewhat limited because what you really want
14 is somebody to come to the front door and start
15 having a conversation about a study that they want
16 to run through the network, and that's sort of --
17 that's one part.

18 The other part is just that the data are so
19 complex that it's likely that they're going to get
20 sort of the wrong answer from the question that they
21 ask and interpret it incorrectly, so that's sort of
22 the challenge with any self service tool on data

1 that are these complex.

2 And so, I think, you know, trying to
3 balance those two issues with, again, really what
4 you want is somebody to pick up the phone and say,
5 hey, I'm thinking about this kind of study, does the
6 data exist, and then, how would I go about executing
7 that, which is what we're doing today with the front
8 door, putting queries to the network and trying to
9 turn those into studies.

10 DR. FERNANDEZ: I don't think that there's
11 any doubt that these are hugely important issues,
12 and on one level we absolutely want to encourage
13 people to come into the front door for the
14 sustainability. On another point of view, we have
15 spent a lot of public money on this and we want to
16 encourage research and a low barrier to entry. So,
17 I think these are exactly the sort of conversations,
18 including, for example, some of the technological
19 issues or advances that could come into play that
20 would mitigate peoples' risks for loss of
21 confidentiality, these are exactly the sorts of
22 conversations that we need to be having.

1 So, it's not a simple thing and I'm just
2 not sure how we're going to have that conversation
3 without some really thoughtful pre-work being done.
4 And I put that to the rest of the board in terms of
5 what sort of information will we need in order to be
6 able to have that as an informed conversation?

7 DR. SELBY: I think, Alicia, one way would
8 be for us -- I should say that, Jesse -- Jesse
9 Hudson is here, executive director or CEO of VCRF,
10 Adrian is here, Keith is here -- we could have a
11 follow up discussion now that the executive
12 committee has heard the -- kind of the breadth of
13 the board's interest in this question.

14 You've done a better job than I was able to
15 do of conveying what your thoughts were. We could
16 come back to you with at least a proposal for how to
17 discuss it further.

18 DR. FERNANDEZ: Don't worry. People will
19 always want to buy the data. I mean, researchers
20 will want to buy the data.

21 SPEAKER: That's kind of one of the things
22 that also, I think, is probably harder to appreciate

1 is, is how do we use this to fit unmet needs of
2 researchers compared to what's out there, say, for
3 example when you use a five percent Medicare sample,
4 there's something that are complete outcomes that
5 everyone knows about. So, here we're dealing with
6 healthcare systems, which has variability in terms
7 of complete outcome.

8 So, different sets of questions and then
9 ultimately as we're thinking about PCORnet, what are
10 we aiming to do, which is to get to answers that
11 have high impact, and so --

12 CHAIRMAN NORQUIST: Keith, do you need to
13 go? Okay, I'll depend on you to get up when you
14 have to go. Just leave. It won't be -- all right,
15 so, Barb.

16 DR. FERNANDEZ: So, Joe, when you're laying
17 out the questions, as Alicia just mentioned, I think
18 it would be very useful for -- I mentioned the five
19 percent Medicare sample only because that's what all
20 the researchers in this room use the most, but there
21 are other datasets that are not Medicare-specific,
22 like TruVim and Optum and others, and it would be

1 useful to have it laid out exactly what you're
2 giving versus what they are giving, for what price,
3 and with what level of completeness. Because
4 they're -- well, period.

5 CHAIRMAN NORQUIST: Other questions or
6 comments to Dr. Marcelo before he leaves?

7 Okay, on the phone we have Harlan Krumholtz
8 and Allen Dumas. Did you have any questions now?

9 DR. KRUMHOLZ: None for me.

10 CHAIRMAN NORQUIST: Okay. All right.
11 Thanks, very much. I know you've got to get back.
12 And then we'll let Adrian go. Okay, Adrian.

13 DR. HERNANDEZ: Okay. So, thanks everyone.
14 So, I'm here to give an update on Adaptable, one of
15 the key demonstration programs for PCORnet, and it's
16 our large, pragmatic clinical trial. And so, here
17 we're focusing on what has been the progress to date
18 in terms of the Adaptable model for identifying
19 potential participants and recruitment, and where we
20 think we stand there.

21 So, just as a reminder, Adaptable's
22 answering the aspirin dose question, so what's the

1 right dose of aspirin for preventing MIs and other
2 cardiovascular events versus the safety issue of
3 bleeding. The aim is to randomize 15,000
4 participants. We aim to identify all those through
5 PCORnet and then leveraging PCORnet after their
6 enrolled, be able to have a follow up for the
7 clinical events via PCORnet as well as a linkage to
8 other data sources such as Medicare data.

9 In terms of recruitment, one of the things
10 that when we started Adaptable is that -- what I
11 call a very ultra pragmatic trial, we did not know
12 which way would be on the best recruitment method.
13 We actually had different networks approaching
14 recruitment in different ways, and then also more
15 recently, a health plan joined and that's been
16 recruiting potential participants directly through
17 their beneficiary list.

18 And so, there are kind of two buckets here,
19 one is low touch, another is, so called high touch,
20 and so low touch is we're essentially doing things
21 electronically, so electronic health record best
22 practice alerts, emails to potential participants as

1 well as snail mail, and then towards a higher touch,
2 things that happen through the clinical flow, so,
3 people they're identifying as they come through the
4 clinic and then having direct discussions about
5 Adaptable in clinic on tablets or people are using
6 them while they're waiting for their appointments as
7 well as direct phone calls for participants here.

8 And for the most part, we've found that a
9 multi-touch approach using a combination of these
10 efforts actually was the best.

11 The other thing we learned along the way
12 was when we designed Adaptable for the
13 inclusion/exclusion criteria we thought we had very
14 broad criteria that was used, but the thing we
15 learned was that there's some criteria that didn't
16 translate easily to how people actually think about
17 clinical care and electronic health records.

18 And so, for example, in one key enrichment
19 criteria was having people who had heart flare low
20 ejection fraction less than 50 percent, the on thing
21 that comes up is that's not often coded in a
22 structured way, but rather we find things in terms

1 of chronic, systolic, or diastolic heart flare, or
2 things like that. Another thing was in terms of
3 blood pressure measurements, again, if you were to
4 just use hypertension, actually, we have access to
5 direct blood pressure measurements, and so what is
6 that that's being used.

7 And so, we actually went through a protocol
8 amendment after seeing how our computable phenotype
9 worked, and then revisiting it when we looked to see
10 how to maximize or optimize the study by the
11 experience with PCORnet and then went through an
12 amendment that increased our potential participant
13 pool without changing the scientific objectives.

14 And so, this kind of learning with
15 improving the computable phenotype and enrollment
16 has been helpful in terms of optimizing the
17 electronic eligibility criteria with what is really
18 available routinely in EHR data, and then also being
19 able to understand the sensitivity and specificity
20 around that, and also dealing with variability
21 across data marks also allowed us to help, as we
22 went forward, to kind of test different approaches

1 as we went through what's the different types of
2 criteria, so we can make sure we didn't lose
3 sensitivity or specificity that were undesirable,
4 and then also, we went through some other things
5 that included a review of implement of local filters
6 that they were in place that limited, in terms of
7 what the potential pool for actually unnecessary
8 reasons.

9 So, we discovered that after the fact that
10 someone said, well, I don't want X-type of patients
11 to be approached because of my own clinical
12 practice, which when that wasn't really evidence-
13 based or actually relevant to the whole practice,
14 and so there are things like that. And like,
15 examples where they were thinking about potential
16 participants for, say, a device trial, and so they
17 wanted to make sure that they weren't approached.

18 Another thing is refreshing, in a more
19 frequent way, so that we can identify those who are
20 newly eligible patients start walking through that
21 health system.

22 So, just to give you a sense of how this

1 works, so, like, the centers supply the computable
2 phenotype, they generate a list of potential
3 eligible participants. They get what's called a
4 Golden Ticket, so, like your ticket into the trial,
5 and that's why it's called a Golden Ticket, then
6 when they have either been reached electronically or
7 through a letter, then they can enter that code to
8 join a study or, really, just to learn about it, and
9 so you could actually go onto adaptablepatient.com
10 to actually explore this and hit the "No Code, No
11 Problem" approach, but ultimately you need to have a
12 code, so that we can actually link you back into a
13 health system to have your complete follow up.

14 Then when you go through this, and you can
15 go through the five steps to joining the study, you
16 can also share this information with other members
17 of your family, your clinician, you can go back to
18 it later, and all this was designed with our team of
19 adaptors, our patient partners here for Adaptable.

20 To give you a sense of what a typical
21 center does, where they have a phased recruitment
22 strategy of approaching 200 to 500 patients per

1 week. They will have an email that will go to a
2 group of potential participants. They will have
3 some that accept it. Those who decline, they will
4 remove them out from the list. Those who don't
5 accept, they'll have a follow up phone call visit to
6 answer any questions, and then they kind of cycle
7 through this until they get a couple touches through
8 e-contact as well as by phone to see if they have
9 any information -- any questions about the
10 information provided, then also be able to join the
11 study and facilitate that across the study. And so
12 this has been a coordinated and helpful example
13 across PCORnet.

14 To give you a sense of kind of different
15 methods that have worked, so we've tested a variety
16 of methods, these are the most common ones. There
17 have also been some uncommon ones including reaching
18 out to local churches and largely -- you can see
19 here in the box -- what we call the conversion rate,
20 if they touch the portal in some way, what's the
21 percent that will actually ultimately enroll, and so
22 the so-called in clinic tablet, of course, has the

1 highest rate, but it's also the most intensive. E-
2 communication or letter is reasonable at 38 and 40
3 percent, and telephone is 50 percent. But again,
4 this is after people actually go and click on the
5 Golden Ticket.

6 This is where we stand as of when these
7 slides were put together. So, there are 33 sites
8 that are actually actively enrolling out of 37 that
9 are active. Almost 300,000 have been approached.
10 Actually, as of today, we've enrolled just over
11 8,100 participants in Adaptable, and last week, to
12 give you an example, we enrolled 134.

13 And as things have progressed, we've
14 definitely been learning, so when we first started
15 the study in April 2016, we had two sites enrolled,
16 eight participants for the month out of 126, and
17 then a year later we were enrolling 600 for the
18 month of April at 26 sites, and had kind of
19 maintained average enrollment around 400 to 500 for
20 the remainder of that time out of 32 sites.

21 And then the other thing is along the way,
22 in November was a large reach out by one of the

1 health plans, Health Corps, which reached out to
2 over 100,000 of potential participants.

3 One aspect that we're now very attentive --
4 have been as well at the beginning, is it's not just
5 about recruitment and participating in Adaptable,
6 but also how people stay in the study so that we can
7 get a high quality answer, and early on there was
8 some variation regarding withdraw of consent for
9 participation, and so that caused us to help modify
10 what's the enrollment criteria, who we're
11 approaching, and also having early contact for
12 anyone who seemed at risk for withdrawal, and that
13 has been decreasing over time.

14 But you can see here across the ten
15 different networks, there's variation in terms of
16 percent, withdrawal of consent, which is overall
17 about 1.7 percent, but we also have gotten
18 permission from some of those who actually have
19 passive follow up, which is actually very helpful.
20 One of the concerns that has come up for the reasons
21 why is medication or health issues, something
22 changed, and so they didn't understand why they

1 should continue to participate, and then privacy
2 concerns has come up.

3 We'll have to see if that increases in any
4 way because of a public attention to privacy that
5 currently exists.

6 So, what are the key lessons that we
7 learned from Adaptable, one is kind of a group of
8 kind of what we call successes, it's been
9 tremendously fun working with Adaptors, our patient
10 partners across the nation, they've been one of, I
11 guess, champions for the study, kept us pretty
12 honest about things, and they've been ambassadors
13 for a variety of national meetings and also through
14 our engagement with other organizations.

15 The national societies have been very
16 positive about partnering here. The ability to
17 identify hundreds of thousands of people who are
18 eligible and being able to approach them is
19 considered a success. This is where we say, you
20 know, data is necessary, but it's not sufficient.
21 How you actually reach them is really important.

22 There are challenges here, and so one is,

1 you know, we have seen varied recruitment across the
2 centers. Partly, we think that's the variation in
3 terms of clinical and patient engagement across the
4 centers and sites. Those who have really a local
5 strong "leadership and engagement", they seem to be
6 more successful.

7 There's also been different areas where
8 there's lack of integration in the clinical and the
9 trail personnel and informatics teams as to how to
10 bring those groups together for team science.

11 We've also discovered a variety of
12 institutional policies and procedures and barriers
13 that some places are over ten years old, and the way
14 I kind of describe that is about -- just over ten
15 years ago, the iPhone was invented, so there are
16 things that change in the world, but their policies
17 have not changed, and so like they will still
18 require things to be sent by mail to let you know
19 that we're going to email you.

20 And so, I think along the way we are going
21 to have groups -- writing groups around these
22 different challenges to note what needs to be

1 changed with the system.

2 And then in terms of as we go forward, in
3 terms of future, we certainly see how to kind of
4 continue on some of the things that have been
5 developed from Adaptable.

6 We see areas for future studies in terms of
7 improving engagement, specifically testing different
8 engagement models. We did some in here, but like
9 there's certainly more to do in terms of the science
10 of engagement. Also understanding patient
11 preferences for research, so being more proactive
12 about who wants to participate in research, what
13 type of research, a variety of other approaches in
14 terms of engaging and approaching people for
15 participation.

16 And then the other thing that we're
17 starting to think more and more about is how do we
18 actually return value to participants? So, the
19 ultimate way to enhance recruitment and retention is
20 to have a deep commitment that at the beginning,
21 that like we are committed to doing five things and
22 so that way you know as long as you go with us, we

1 are committed to returning there.

2 We have that for Adaptable, but I think now
3 in retrospect, I think we could have done an even
4 better job of saying, this is going to be our
5 commitment for you as you join, and that would be
6 something that we would endorse for future studies.

7 And then the other thing is using Adaptable
8 to change institutional policies, how things vary
9 across different centers for really local reasons
10 that are not necessarily so-called evidence-based,
11 and then being able to prioritize PCORnet because of
12 the values it brings in terms of the impact.

13 So, I'll stop there and answer any
14 questions.

15 CHAIRMAN NORQUIST: So let's open it -- Bob
16 Zwolak.

17 DR. ZWOLAK: So, I'm sure we all really
18 appreciate this update and it may be that the
19 lessons learned here are inestimably important. The
20 question I had involves the actual goal of the
21 research study. We had in 2015 and 2016, the target
22 was 20,000 registrants and in an application for

1 incremental funding in 2016 it was stated that
2 14,000 would not be enough, would be underpowered,
3 and now 15,000 is the goal.

4 So, in addition to all these fabulous
5 lessons, is there a likelihood -- is there still a
6 good likelihood of a meaningfully important result
7 to this test of the right aspirin dose?

8 DR. HERNANDEZ: Yeah, so I guess one of the
9 things that comes up is we had assumptions when we
10 were putting together Adaptable, and a range of
11 assumptions, actually, in our application for
12 Adaptable in terms of the power that was needed to
13 answer what's the difference between 81 and 325, so
14 20,000 essentially was giving us around 90 percent
15 power and recognizing where things were going in
16 terms of recruitment rates relative to what we would
17 want for having the answer within a reasonable time
18 period. We felt that it was appropriate to have --
19 finish the study within a reasonable time period
20 going at 15,000, so that gives us about
21 approximately 85 percent power, so that's kind of
22 the trade off. So, it's essentially time versus

1 cost.

2 DR. FERNANDEZ: That was a fabulous,
3 terrific presentation and it's so good to see this.
4 So, here's a quick question, which is, I see that e-
5 identification and the e-approach works and it's
6 still the modal way in which you're getting people
7 in, right, and that's really important.

8 On the other hand, there's going to be few
9 studies, maybe no studies, that is as easy and as
10 straight forward as Adaptable in terms of what's
11 being tested.

12 So, my question has to do with the
13 underlying conceptual model of PCORnet recruitment.
14 And what are your thoughts, and could you give us
15 some data at some point around is it possible to
16 recruit from clinics if there is no clinical
17 champion and if there are no incentives for the
18 physician, because as I understand this model
19 correctly, there are no physician incentives. And
20 so, for the physician, it's only altruism that
21 offsets the loss to time and effort, or if there's a
22 clinical champion, then maybe you do it because, you

1 know, you want to keep Dr. [inaudible] happy, you
2 know, whatever.

3 So, what are your thoughts around this in
4 terms of that larger lesson? And at some point do
5 you think you could break down the clinical stuff
6 for us?

7 DR. HERNANDEZ: Yes, so incentives matter.
8 And so I think that's where me saying that for
9 Adaptable, where it really matters is when there are
10 clinical champions and clinical leadership, because
11 they say this is going to be really important for
12 the population that we care for. So, there's other
13 values that they're bringing to the table.

14 I'll say that the way I characterize
15 Adaptable is that the ultra pragmatic trial and
16 there are components of this that can be readily
17 used for other studies. So, for example, there are
18 maybe, say, a high interest area in diabetes where
19 there's multiple agents that are being considered.
20 What would you do for doing this where you can
21 identify people, reach out to them, see if they're
22 interested in participating? But they ultimately

1 would have to come in for a prescription or get a
2 study drug.

3 But you can do things that can help focus
4 who is actually potentially interested, as opposed
5 to right now, which is just by chance. Passively
6 someone happens to come to a clinic and the study
7 coordinator happens to be there at the right time
8 and the physician happens to remember that.

9 All that kind of luck is just not efficient
10 and it's not very effective. So, we think that you
11 can take components of this to apply it in a variety
12 of ways. And then for studies that are more
13 pragmatic, say, one-time interventions, such as like
14 a vaccine, then that would work well. For things
15 that's going to need something more intense in terms
16 of either follow up or drug accountability and so
17 forth, there are going to be some things that you
18 have to do the traditional way.

19 The other thing is when we have data that's
20 recurring that's in the background, that lessens the
21 burden for participants, they don't need to come in
22 every four weeks for their study visit. They don't

1 need to come in for some of the blood work, perhaps,
2 that can be done at home.

3 DR. FERNANDEZ: I think there's been this
4 view that it was sort of magic --

5 DR. HERNANDEZ: I wish.

6 DR. FERNANDEZ: -- for recruitment and I
7 think that what I think the Adaptable experience has
8 done for me, and perhaps it's done for others on the
9 board, is that it's disabused the magic of
10 enrollment, and I guess this is something that I
11 just want to make sure that we're all hearing, which
12 is how much work it's been to enroll for a trial of
13 aspirin.

14 And because I really don't know how much,
15 for example, this issue on second agent for
16 diabetes, which would also require a huge sample
17 size. But it's not an easy question and patients
18 will have to talk to their physicians about it, and
19 I'm not seeing, in the PCORnet framing, I'm thinking
20 that we still have a lot of lessons to learn about
21 all the ways in which it can help us in recruitment,
22 as you say, making sure the email goes at least to

1 the right people.

2 But it's not so simple, and congratulations
3 to you and the team for doing so well.

4 DR. HERNANDEZ: I agree, it's definitely
5 not magic. I mean, one thing is, as a cardiologist,
6 certainly I think that aspirin is like terrifically
7 interesting and I always get surprised when people,
8 so like --

9 DR. FERNANDEZ: [Inaudible] -- over-the-
10 counter drugs --

11 DR. HERNANDEZ: Right, right, no, but
12 here's my kind of personal story. I've got two
13 parents, they're eligible for Adaptable, they get
14 approached. One signed up, easy. The other one had
15 questions, didn't think that she could talk to her
16 son, who's a cardiologist, who may know something,
17 hasn't talked to her cardiologist who is trusted and
18 who is not myself, so I get, you know, that's -- to
19 me, like my personal two examples, one just said,
20 I'll sign up for it, and then the other one went
21 through all this and she decides she wasn't going to
22 do it because she's worried about bruising.

1 CHAIRMAN NORQUIST: Barbara and then Mike.

2 DR. McNEIL: I agree. I really like that
3 presentation. I particularly like this last slide.
4 But I have two questions. The first one is, as I
5 understand it, you went through the medical records,
6 circle various things, got a patient population, and
7 then they got randomized to A versus B. So, the
8 real question is, or a real question is, the extent
9 to which these data are true and reliable depends
10 upon the extent to which across all the various
11 sites the population that was subsequently
12 randomized is, A, the same across sites, and B,
13 something that the cardiologists will buy into as a
14 reasonable patient cohort for deciding whether it's
15 81 or 300-something.

16 So, that would be the first question. And
17 the second question is a little bit related, and now
18 I'm way out of my field, is -- but it's probably for
19 you or Michael or Harlan, who's not here, to say, to
20 what extent is the power of 85 percent enough to
21 make a decision between a low-dose and a high-dose
22 aspirin when the stakes are reasonably high and when

1 there's a long history of low-dose. So those are
2 the two questions. They're easy, so just go for it.

3 DR. HERNANDEZ: Yeah, so for the first
4 question when we did a section for each site, partly
5 to get comfort with the clinicians, we asked them to
6 actually for the first 50 or so participants, to
7 actually review the charts. And so we actually have
8 that. That was something that we thought would be
9 important for people to get comfortable. So that's
10 there, what we did and we have some other validation
11 work that we're doing.

12 For the second question in terms of the
13 history of 81 versus 325 is that, you know, we --
14 there's actually a variation in practice across
15 that, and so we actually -- you know, there's
16 publications around that why everyone would say,
17 like -- and you see camps of people, they'll say,
18 oh, no, it's 325, oh, no, it's 81, but practice
19 shows there's variation. Actually, in the
20 guidelines it actually specifies -- one of the few
21 times in the cardiovascular guidelines it actually
22 specifies this is an unanswered question that

1 Adaptable will be filling in. So, that's unusual to
2 see.

3 CHAIRMAN NORQUIST: Mike?

4 DR. LAUER: So, congratulations. It's just
5 incredible, the progress that you've made. I think
6 you've made a couple of important points.

7 One is, is that, in a way, this is an
8 effort of systematizing enrollment to in
9 systematizing interest in trials, and, as you say,
10 you're getting around the luck component and you've
11 developed a system by which huge numbers of people
12 are being contacted.

13 To get to Alicia's question, one key point
14 to enrollment is that you pick topics that both
15 patients and doctors really care enormously about.
16 You know, one trial that Adrian and I know very well
17 was the trial of -- was the serotype this is a drug
18 for heart failure. There was a huge amount of
19 controversy about that and that trial enrolled very
20 quickly and it's because people really wanted to
21 know the answer. I think aspirin is something that,
22 when we were first discussing this a few years ago,

1 this is something that we really, really do want to
2 know the answer. And so, I think that's another
3 critical part to this.

4 And then the third, which is probably going
5 to be something that will happen over time, some
6 institutions have started to do this where the top
7 level executives say that the way they're going to
8 measure their executive's performance is by how well
9 they are getting patients enrolled in clinical
10 trials. There have been some universities where
11 this has actually happened. And it's amazing what
12 happens when an executive is told that the way
13 you're going to be measured is by how well you're
14 participating in this value of the institution,
15 things start to change.

16 DR. HERNANDEZ: Yeah, so, actually, on a
17 local level, we're actually pushing for that as kind
18 of a part of the balanced score card for leaders so
19 that they recognize that part of the mission is to
20 generate knowledge, and the you do that is actually
21 participation, and so, again, that helps recognize
22 that. Because I think, at least to your point,

1 there's been so many other competing priorities,
2 it's really hard otherwise.

3 CHAIRMAN NORQUIST: Any questions on the
4 phone? Allen or Harlan?

5 They must have dropped off or they're muted
6 and they can't get on. Other questions, Adrian, do
7 you have something else you wanted to say?

8 Thank you very much. I mean, it's very
9 helpful.

10 [Applause.]

11 CHAIRMAN NORQUIST: And we will follow up
12 on -- I just want to say, because we're coming up on
13 the public comment period, that there will not be a
14 public comment period today. We don't have anyone
15 who wanted to appear in person or on the phone. So,
16 we always welcome feedback at info@pcori.org or
17 through our website.

18 So, Joe?

19 DR. DOUMA: Joe, this is Allen.

20 CHAIRMAN NORQUIST: Allen, go ahead.

21 DR. DOUMA: I'm sorry, I was on mute. Any
22 update on the process, the timeline for having a

1 more definitive business plan?

2 DR. SELBY: We -- that's a good question
3 for tomorrow on the RTC. I think Kathy Hudson will
4 make some preliminary comments on plans for the
5 business plan and then a month from now on the RTC,
6 and shortly after that at the board, we will talk in
7 more detail about the business plan, but thanks for
8 asking. We all have it as a very high priority item
9 for a number of reasons, not the least of which is
10 you, Allen.

11 DR. DOUMA: Well, thank you.

12 DR. SELBY: Yes, thank you. Okay, so you
13 heard Adrian mention score cards and in fact one of
14 the other questions from the board in February was
15 about a dashboard on PCORnet, and it's gratifying
16 because we've gotten used to dashboards ourselves
17 with PCORI, and I will say that Duke is actually
18 very good at developing dashboards and they've been
19 using them internally for a while, but just use them
20 to share among the networks in PCORnet and with the
21 executive committee to follow dichotomous things
22 like has the master DSA and the single IRB been

1 signed off on yet, but also to monitor things over
2 time, like query fulfillment and turnaround time
3 rates.

4 So, we're actually grateful for the
5 question from the board and happy to come up with a
6 dashboard that would be suitable for sharing on a
7 quarterly basis with the PCORI board and I imagine
8 it would probably give the PCRF board an appetite
9 for this as well, as well as the public. But we do
10 see them more at this point as longitudinal records
11 of progress on measures that can improve over time.

12 So, I'm just going to go through some -- we
13 had a nice discussion on the RTC last month, and
14 just before we put the first dashboard together, I
15 want to show you some metrics and give you a chance
16 to comment on these or add other suggestions as
17 well.

18 So, you can think about them in different
19 buckets, so the number of patients who are in the
20 network, the number who have had at least an
21 encounter in the last 12 months, the number of
22 patients who are available for -- and an encounter

1 in the last month, you might think that they'd be
2 somewhat more reasonable to approach about a trial
3 -- patients available for an observational study
4 would be people who have had a certain amount of
5 follow up but not necessarily an encounter lately.

6 So, I also realize it's very late in the
7 day and people are tired, but as we're going through
8 these, anything that occurs to you that I can take
9 back to the coordinating center, I will be really
10 happy to do it. But those are patient metrics.

11 Front door activities, the number of front
12 door requests we're receiving and how that's
13 changing over time, over all and by requestor type,
14 was this a funder, was this an external researcher,
15 was it a network researcher, and the number of
16 requests. The number of funded research projects by
17 federally funded, industry funded, number and award
18 for both demonstration and competitive projects
19 funded by PCORI. Kathleen?

20 MS. TROEGER: Joe just to contribute this
21 in real-time, I would be interested in knowing if
22 they are novel as well, so if there are three

1 requests, you, me and Larry, that's interesting
2 versus me kind of coming back --

3 DR. SELBY: So, the number of novel
4 requesters, independent.

5 CHAIRMAN NORQUIST: Unique.

6 DR. SELBY: Unique. That's the word we
7 were both looking for.

8 Okay, in terms of research and performance,
9 if we have a clinical trial, like Adaptable, or like
10 the invested trial or like some of these new PaCR
11 awards, the average days it takes to activate a
12 site, the average days to the first patient that's
13 enrolled, the average enrollment time, total
14 enrollment, percent of the target enrolled,
15 population enrolled, and the number of trials with
16 data reported. So, this would be on a -- these are
17 calculated at the trial level, but they could also
18 be calculated, I guess, at the site level.

19 And then, of course, number of manuscripts
20 overall within studies. And then on queries, the
21 number of queries that have been executed to date,
22 the average query turnaround time, and the listing

1 of queries, which would come as an addendum to the
2 dashboard by therapeutic area.

3 And then those last two, which I think are
4 pretty much at 100 percent now, they're very high,
5 the percent signed on to the data sharing agreement
6 and to the smart IRB agreement. Barbara?

7 DR. McNEIL: So, Joe, this looks awfully
8 ambitious in terms of putting all these together in
9 a dashboard and I wonder if you might -- or maybe
10 everybody could digest all of this, but would it
11 make sense to prioritize them and say for the first
12 dashboard you're going to have ten of these that are
13 really robust? Because this is mind boggling that
14 you could really get all these --

15 DR. SELBY: Yes. And this is really --
16 that's the intent here. These are possibilities.
17 You're right. There won't be nearly all of these
18 and any comments you'd like to make about things
19 that are more attractive/less attractive, would help
20 us to prioritize what -- so, thank you. I probably
21 didn't say that clearly at the outset.

22 CHAIRMAN NORQUIST: I think Bob had a

1 question.

2 DR. SELBY: Yes, Bob.

3 DR. ZWOLAK: In the world of better,
4 faster, cheaper, there's a lot of faster on here,
5 which I really like. It probably would be quite
6 difficult to get it cheaper, but maybe not, the
7 expense per enrollee or expense per completion, and
8 better I wonder about patient-centric metrics of
9 some sort.

10 DR. SELBY: Great thoughts. Kathleen, did
11 you have another? Go for it.

12 MS. TROEGER: And maybe we want to consider
13 pragmatic in here as well as its own category. So,
14 just with all the work -- and Ellen's not here --
15 that's being done for real world, I'm just not sure
16 we're limiting ourselves to RCT's and prospectives.

17 DR. SELBY: Okay, so when you say
18 pragmatic, you mean pragmatic trials or did you have
19 a different notion --

20 MS. TROEGER: Yeah, so I'm thinking about
21 it in real-time here, Joe, I don't have a strong
22 proposal, but I would suggest that there may be --

1 that we want to ask how it fits and then count the
2 metrics, so maybe we just want another classifier at
3 the top for observational --

4 DR. SELBY: Yes. And cluster -- RCT
5 clusters?

6 MS. TROEGER: Yeah, same idea. I think
7 that's it, and so if there are not other comments or
8 suggestions --

9 DR. SELBY: So, I think that's it, and so
10 if there are not other comments or suggestions.

11 CHAIRMAN NORQUIST: So I think the only
12 thing I didn't see, when you talked about the
13 population on the first slide, I don't see anything
14 about the diversity of the population. Because, you
15 know, if it was of interest to note, you know, just
16 as you do more of that, what the diversity is of the
17 population that you're enrolling.

18 DR. SELBY: So, we will take this and mock
19 up an initial dashboard and try to have something
20 from each of these sectors and bring it back, and
21 you can have at it again. I think our experience is
22 that dashboards get better and better over time.

1 CHAIRMAN NORQUIST: Any other questions
2 about that or comments? Yeah, as people think of
3 things, obviously send them to Joe. But I agree
4 with Barbara, you might want to prioritize a few
5 just to get started.

6 Okay, Joe, do you have anything else?

7 DR. SELBY: No, Gray that's it for today.

8 CHAIRMAN NORQUIST: Okay, so anything else
9 for members of the board on the phone? Okay, so, I
10 want to thank all who joined us today. A reminder,
11 all the materials presented today will soon be
12 available on our website. The webinar was recorded
13 and will be archived probably by next week.

14 We always welcome your feedback at
15 info@pcori.org or through our website. Thanks
16 everybody.

17 [Whereupon, at 5:20 p.m., the meeting was
18 adjourned.]

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