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11 CENTERS FOR MEDICARE AND MEDICAID SERVICES

12 Medicare Evidence Development & Coverage Advisory

13 Committee

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20 April 30, 2008

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22 Centers for Medicare and Medicaid Services

23 7500 Security Boulevard

24 Baltimore, Maryland

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1 Panelists

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3 Vice Chair

4 Steven Pearson, M.D., M.Sc.

5

6 Panel Members

7 Mark D. Grant, M.D., M.P.H.

8 Mark A. Hlatky, M.D.

9 Nora A. Janjan, M.D., M.P.S.A.

10 Ruth Bush, M.D., M.P.H.

11 Karl Matuszewski, M.S., Pharm.D.

12

13 Patient Advocates

14 Nancy Davenport-Ennis, B.A.

15 Leslie B. Fried, J.D.

16

17 HCFA Liaison

18 Barry M. Straube, M.D.

19

20 Consumer Representative

21 Linda A. Bergthold, Ph.D.

22

23

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1 Panelists (Continued)

2

3 Guest Panel Members

4 Barbara M. Alving, M.D.

5 Diane Bild, M.D., M.P.H.

6 Lisa A. Lang, M.P.P.

7 Richard E. White, Jr., M.D.

8 Sean Tunis, M.D., M.Sc.

9

10 Executive Secretary

11 Maria Ellis

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1 TABLE OF CONTENTS

2 Page

3

4 Opening Remarks

5 Maria Ellis/Barry Straube/

6 Steven Pearson 6

7

8 CMS Presentation

9 Rosemarie Hakim, M.S., Ph.D. 14

10

11 Panel Discussion 17

12

13 Scheduled Public Comments

14 Diane A. Smith, M.S.N., C.R.N.P. 86

15 Cynthia Rice 89

16 Teresa Lee, Esq., M.P.H. 92

17 Randy Burkholder 97

18 Joshua A. Beckman, M.D., M.S. 103

19 William S. Weintraub, M.D. 107

20

21 Open Public Comments

22 James Min, M.D. 113

23 Stephanie Stinchcomb 116

24 Emily DeVoto 117

25 Stephanie Strickland-Smith 117

00005

1 CONTENTS (Continued)

2

3 Questions to Presenters 118

4

5 Open Panel Discussion 156

6

7 Closing Remarks and Adjournment 210

8

9

10

11

12

13

14

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1 PANEL PROCEEDINGS

2 (The meeting was called to order at 8:31  
3 a.m., Wednesday, April 30, 2008.)

4 MS. ELLIS: Good morning and welcome,  
5 committee chairperson, members and guests. I am  
6 Maria Ellis, an executive secretary for the Medicare  
7 Evidence Development and Coverage Advisory Committee,  
8 MedCAC. The committee is here today to discuss  
9 evidentiary priorities for the Medicare program.

10 The following announcement addresses  
11 conflicts of interest issues associated with this  
12 meeting and is made part of the record. All panel  
13 members have been reviewed and there are no conflicts  
14 of interest.

15 We ask that all speakers please adhere to  
16 their time limits. We have numerous speakers to hear  
17 from today and a very tight agenda, and therefore  
18 cannot allow extra time. There is a timer at the  
19 podium that you should follow. The light will begin  
20 flashing when there are two minutes remaining and  
21 then turn red when your time is up. Please note that  
22 there is a chair for the next speaker, and please  
23 proceed to that chair when it's your turn.  
24 For the record, the entire panel will be  
25 submitting their scores today. I ask that all panel

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1 members please speak directly into the mikes, and you  
2 may have to move the mikes since we have to share.  
3 If you require a taxicab, there is a  
4 sign-up sheet at the desk outside of the auditorium.  
5 Please submit your request during the lunch break.  
6 And lastly, please remember to discard  
7 your trash in the trashcans located outside of this  
8 room.  
9 And now I would like to turn the meeting  
10 over to Dr. Barry Straube.  
11 DR. STRAUBE: Good morning and welcome,  
12 first of all to the MedCAC committee members, but  
13 also to the public and others in the audience, I want  
14 to welcome you here to this second in a two-part  
15 MedCAC series.  
16 I wanted to paint kind of a high overview  
17 here and then turn it over to Steve to continue on  
18 with the meeting here, and why we're doing this  
19 particular MedCAC meeting as follow-up to the one we  
20 held late last fall. I think that we're trying to  
21 make a point that our coverage process fits into a  
22 much higher process that CMS has embarked on, which  
23 has a focus on quality and value in health care.  
24 About two-and-a-half years ago we  
25 published what's known as the CMS Quality Road Map,

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1 and we're currently revising that and bringing it up  
2 to date and we will be issuing a new version  
3 relatively soon. The key tenets of the Quality Road  
4 Map for CMS, however, won't really change very much,  
5 and in particular the main mission, which is to  
6 obtain the right care for every person every time,  
7 that's our vision and our goal. We have five  
8 strategies, if you will, that we will continue to  
9 focus on, we may revise these slightly.  
10 The first is working through partnerships  
11 and collaboration with multiple stakeholders across  
12 the country. We don't believe that we can do this by  
13 ourself, and this meeting is one of the reasons and  
14 fills that strategy in the road map.  
15 The second strategy is, we believe very  
16 strongly in making public and transparent quality,  
17 efficiency, value, price and cost information to the  
18 American public. And again, I think that the output  
19 of this particular meeting will fit into that  
20 strategy also.  
21 The third area, probably not directly  
22 related to the meeting today but very important to  
23 the Agency, is reforming our reimbursement system to  
24 pay for quality rather than quantity as we've done  
25 over time. So there's a lot of activity, as you're



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1 all aware, a discussion on the Hill and elsewhere  
2 about how we can reform our payment systems.  
3 The fourth strategy is to focus on and  
4 promote and push the adoption of health information  
5 technology, and that we believe is very important to  
6 be able to enable providers at the various provider  
7 sites to be able to deliver the highest quality and  
8 most efficient health care, as well as gathering  
9 evidence to be used in the delivery of care and  
10 making coverage decisions, and collecting quality and  
11 efficiency information.  
12 But our last strategy, the fifth strategy  
13 is perhaps the most related to the MedCAC and to the  
14 work that's going to be done today, and that has to  
15 do with how we're wanting to bring to the, be made  
16 available to Medicare beneficiaries and to the  
17 providers who take care of our Medicare beneficiaries  
18 new and innovative technologies, services and  
19 treatments as rapidly as possible so that these don't  
20 languish and are not made available to healthcare  
21 providers as well as beneficiaries. And that's what  
22 our coverage process is striving to do and what this  
23 meeting will contribute to as we go forward.  
24 Now in the past you may remember that  
25 before the mid 1990s we basically, anything that FDA

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1 deemed as safe and effective ended up being covered  
2 by Medicare. But as the '90s went on and in  
3 particular with the past decade, we have refined our  
4 statutory authority and responsibility, which is to  
5 determine once something is determined safe and  
6 effective, whether it's reasonable and necessary, and  
7 this is a very difficult area which the MedCAC and  
8 many of you and others will need to help us with as  
9 we try to further refine our definition of reasonable  
10 and necessary going forward.

11 But what we do know is that reasonable and  
12 necessary, if you look at the statutory language of  
13 the Social Security Act is linked, and our guidance  
14 documents have defined at least to some extent that  
15 reasonable and necessary entails two components. One  
16 is that a treatment or a service has to lead to  
17 improved outcomes, so it has to make the health and  
18 outcome of the Medicare beneficiary better. And two,  
19 it has to be relevant to the Medicare population. So  
20 many, many population-based studies which we've used  
21 in the past may not be specific for Medicare  
22 beneficiaries, and we are increasingly looking at the  
23 relevance to Medicare beneficiaries.

24 So in that vein we've decided, and we went  
25 through our first meeting the last time, and this is

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1 entirely new for us so we have, I think it's an  
2 iterative process where we're learning how best to do  
3 this. But the major goal of that meeting, and now  
4 today much more importantly, is to try to go back and  
5 identify where there are gaps in evidence in topics  
6 that are most relevant to Medicare beneficiaries and  
7 topics that will ultimately lead to improved outcomes  
8 for those beneficiaries, so that this MedCAC today  
9 will build on some of the discussions and evidence  
10 that we gathered for the first meeting.  
11 We've had a second meeting which you will  
12 hear described momentarily, that gave us some more  
13 information, and today what we will try to do is to  
14 identify those gaps in evidentiary background that  
15 all of us feel are important for all of us to address  
16 so we can make better evidence-based coverage  
17 decisions and bring new technologies to Medicare  
18 beneficiaries more rapidly.  
19 Some discussions I just want to close  
20 with, there has been concern in some quarters that  
21 the purpose of this MedCAC is to set the national  
22 coverage determination agenda for the next year or  
23 two. That is clearly not the case. Again, we are  
24 looking to identify where there are the largest gaps  
25 in evidence to make coverage decisions in certain

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1 areas, but let me send a message and be clear also  
2 that these topics are not just short on evidence, but  
3 they involve critical topics that we feel are  
4 important for Medicare beneficiaries. So I think  
5 that we want to promote evidence development in these  
6 areas, as well as we would like to see product  
7 development in these areas that we can apply that  
8 evidence to, and hopefully it will meet criteria that  
9 we can provide coverage to Medicare beneficiaries in  
10 those areas.

11 So having said that, I think I will turn  
12 this over to Dr. Pearson and you may proceed.

13 DR. PEARSON: Thank you, Barry. Good  
14 morning, everybody. I'm sorry we're a little bit  
15 late, but part of my job is to help keep us as on  
16 time as possible going forward, and I do think we  
17 will be able to do that.

18 Just a few brief words from my  
19 perspective. One is that this is not the first  
20 meeting where this process has been attempted in  
21 terms of setting priorities. It's obviously not  
22 easy. It's not a very clean and precise process but  
23 it's very, very important, for all the reasons that  
24 Barry laid out. And I would add that -- he talked  
25 about innovations languishing for a dearth of

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1 evidence. I would say that the needs for evidence  
2 are very broad and I think this panel represents a  
3 broad perspective, both on the clinical needs for  
4 evidence, on the needs for evidence from  
5 manufacturers' perspective and how they want to get  
6 products adopted and accepted, and from a population  
7 perspective we need to figure out where the evidence  
8 gaps are in order not just to make sure that good  
9 innovations are brought quickly into practice  
10 appropriately, but that we understand how  
11 decision-makers can best obtain the evidence they  
12 need to make sure that we do get the innovation that  
13 we want, that the value from that innovation can be  
14 judged in an appropriate time when it's introduced  
15 into practice.

16 So when we talk about evidence gaps today,  
17 you can imagine there's a long list that I'm fairly  
18 sure many of you will have seen before of specific  
19 topics and questions. The panel will actually spend  
20 a fair amount, if not the majority of the time today,  
21 thinking about evidence gaps in a very broad  
22 perspective. And that is not just what are the very  
23 specific questions that need to be addressed in a  
24 very narrow clinical area, but what types of evidence  
25 are needed for decision making, what types of studies

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1 would best be thought of as in the future providing  
2 the kinds of evidence that so often decision-makers  
3 feel are lacking. So even when there is research,  
4 often sometimes there are many, many evidence gaps,  
5 and I think it's that perspective that the MedCAC  
6 today wants to discuss, as well as in a sense revisit  
7 that long list and try to revisit its prioritization.  
8 So, I know that we're going to have a  
9 presentation from CMS on background, and then we will  
10 move into the agenda beginning with the panel  
11 discussion. Rosemarie.

12 DR. HAKIM: There's a little technical  
13 problem.

14 I want to welcome everybody to this  
15 MedCAC, I think it will be really interesting.  
16 The goal of this meeting, which has been  
17 already said, is to develop a list of evidentiary  
18 priorities focusing on gaps in research. Our  
19 ultimate goal is to guide health care decision making  
20 for physicians, patients and families.  
21 Because evidence for health benefit of  
22 clinical services for the elderly is often lacking,  
23 CMS would like to establish a list of research  
24 priorities to fill these gaps. We would also like to  
25 provide guidance to the research community about the

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1 most significant evidence gaps on health care for the  
2 aged, regardless of Medicare coverage. We do want to  
3 expand this to all evidence issues, regardless of  
4 whether it's a coverage issue.  
5 CMS would like the research community to  
6 consider the value of determining the effectiveness  
7 of new technologies. We'd also like the research  
8 community to assess comparative effectiveness and the  
9 added value of new technology. We would also like  
10 the research community to evaluate the effectiveness  
11 of existing items or services provided to the aged.  
12 When CMS makes a national coverage  
13 decision, key evidence is often missing because  
14 studies often enroll younger age groups, which in  
15 many cases limits our generalizability to the older  
16 patients we're looking at. Many studies don't meet  
17 the minimal quality standards to be included in a  
18 systematic literature review or meta-analysis.  
19 Existing studies may not have evaluated  
20 endpoints relative to the elderly or have inadequate  
21 follow-up. Studies often have too many exclusion  
22 criteria to be of value. Studies of diagnostic tests  
23 may have only been concerned with the sensitivity and  
24 specificity of the test and not the ultimate health  
25 benefit of that test.

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1 We're trying to target, in this  
2 evidentiary priorities activity, other government  
3 agencies, academia, industry, professional societies  
4 and private funding organizations.  
5 You've already heard that we had an  
6 evidentiary priorities meeting in October. We had --  
7 sorry, that's a mistake -- we had seven scientists  
8 from the following institutes, and what they did was  
9 present their institute's view on the most needed  
10 research study projects.  
11 Then in February we held a federal  
12 workshop and then we had 50 scientists and we invited  
13 them from 13 NIH institutes, the CDC, CMS and AHRQ.  
14 We then organized everybody into teams, not  
15 necessarily based on their expertise. The teams  
16 reviewed the October list and developed new questions  
17 and topics.  
18 Before today's meeting the panel received  
19 some material which you now have outside on the desk.  
20 They received a list of relevant diseases and  
21 conditions, most of which were developed in October  
22 and February; they received a list of relevant  
23 diagnostic tests and procedures, and they received a  
24 list of screenings. They also received a list of  
25 study designs, research outcomes, and health policies



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1 that could help direct research.  
2 Today in the morning we're going to have  
3 an open panel discussion of study designs and  
4 research outcomes and then we're going to go to  
5 public comments. In the afternoon we will continue  
6 the discussion and discuss and revise scores. This  
7 is a sample of the evidentiary priority score sheet.  
8 After this we will review today's score  
9 list and prioritize and finalize it. We will make  
10 the evidentiary priorities public via the CMS web  
11 site and public meetings such as town hall forums.  
12 We hope to keep our priority list current.  
13 All of our MedCAC proceedings, including  
14 today's, can be found on this web site. Thank you.  
15 DR. PEARSON: Thank you, Rosemarie. All  
16 right. So as she described, we as a group have been  
17 looking at a long list of evidentiary priorities, and  
18 I think going through those will have raised for all  
19 of us specific broader thoughts about the types of  
20 evidence, what kinds of research we need to try to  
21 prioritize for Medicare and other users.  
22 So let me just open it up to the panel  
23 now, and instead of focusing again at the lower level  
24 of what specific topic within diabetes is the most  
25 important, let's talk a bit about what kinds of

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1 research and what kinds of outcomes we feel are the  
2 most important for the research across a broad set of  
3 clinical areas. Sean, would you like to start?  
4 DR. TUNIS: Maybe picking up on some of  
5 the comments Rosemarie made, she identified a number  
6 of areas where the existing evidence is oftentimes  
7 considered deficient, at least from the perspective  
8 of making coverage decisions and, you know, a number  
9 of things she identified, including, you know,  
10 including the elderly patients or other types of  
11 Medicare patients like disabled patients, et cetera,  
12 in the kinds of outcomes and interests.  
13 I think, again, one of the key questions  
14 that will come up over and over again today as we try  
15 to think about evidentiary priorities is, you know,  
16 this sort of underlying method that, you know, sort  
17 of the different methodologies that are appropriate.  
18 And this goes to, you know, whether analysis of  
19 existing databases is going to be useful for coverage  
20 decisions or whether registries are ever going to be  
21 particularly useful for coverage decisions, whether  
22 done under coverage with evidence or otherwise, or  
23 whether what we're really talking about is, you know,  
24 so-called real world clinical trials.  
25 And you know, one of the bullets in

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1 Rosemarie's slides talks about that the quality of  
2 existing evidence frequently doesn't meet, you know,  
3 the standards for being included in a meta-analysis.  
4 And you know if you look at most of the systematic  
5 reviews that AHRQ will do, for example, to support  
6 CMS coverage decision-making, you know, oftentimes  
7 right out of the bat, what is excluded is anything  
8 that isn't a randomized comparison.  
9 So, you know, one of the early questions  
10 we will have to sort of talk about and decide is, you  
11 know, is CMS potentially considering more openness to  
12 nonrandomized designs in informing coverage decisions  
13 or are we really talking about how do we get more  
14 better real world controlled clinical trials, and is  
15 that the kind of evidence gaps that CMS is most  
16 interested in.  
17 So that's kind of one fundamental issue to  
18 raise, and it comes up over and over again.

19 DR. PEARSON: Yes, Barbara.

20 DR. ALVING: One of the points that I  
21 might like to make is that a coverage decision is  
22 actually a very dynamic decision, just as FDA  
23 decisions are very dynamic. And certainly FDA is now  
24 recognizing the importance of surveillance and really  
25 following what is approved, and I think that CMS

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1 probably needs to make some coverage decisions that  
2 can be followed in a very dynamic fashion. And  
3 that's why I like coverage with evidence, or you can  
4 say we're making this coverage decision but we're  
5 going to reevaluate it as new therapies are, you  
6 know, found, or as we see there is too much, let's  
7 say morbidity with a decision made on a drug, for  
8 example, as it pertains to the Medicare population.  
9 I think we've seen with EPO, for example,  
10 a coverage was made for dialysis which was a very  
11 wise decision, and yet a dose crept up. So it shows  
12 how we need to have a very dynamic, I think, process  
13 in place for coverage decisions and they don't have  
14 to necessarily be irrevocable.

15 DR. PEARSON: Yes, Mark.

16 DR. GRANT: Getting back to the issue of  
17 the types of studies and types of evidence, I'm not  
18 putting the horse before the cart. I think the first  
19 issue is that, what is the question at hand and what  
20 is the decision that the evidence is meant to inform.  
21 And I think, I guess from my perspective one starts  
22 staring at how much uncertainty is one able to  
23 tolerate in the evidence, and sometimes that  
24 uncertainty might be okay, let's do another  
25 randomized comparison, and sometimes it might not be.

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1 But I don't think there's any one blanket study  
2 design and I think that one needs to be considerably  
3 inclusive in the potential alternatives.

4 And I also think that in terms of evidence  
5 synthesis, the general approach oftentimes is to  
6 throw quite a bit of evidence out of the starting  
7 gate, and I'm not sure that's always a wise decision.

8 So in addressing the question about what types of  
9 studies, I really, really believe strongly that you  
10 start with the question of the decision that we need  
11 to inform and that really will dictate the type of  
12 design.

13 DR. PEARSON: Anybody more? Nora, did you  
14 have something to say?

15 DR. JANJAN: I guess I would say that from  
16 my perspective as a clinician, there are really two  
17 important issues, one is patient outcomes and what  
18 are we doing for the patient. And there's a lot of  
19 data that's gathered on quality of life and whatever  
20 that is not always reported, and I think that needs  
21 to have a higher priority that, you know, we might  
22 extend survival for two weeks, but is that quality  
23 survival and are we accomplishing something.  
24 Secondly, I think the extension of  
25 technologies, once it's FDA-approved for a given

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1 indication and then we apply it to other situations,  
2 there's rarely any further study, or if there is, you  
3 know, it's more limited, and we have to figure out  
4 what level of evidence do we need as we extend  
5 technologies to different situations or new agents to  
6 different situations, how much evidence will be  
7 needed to use it in that population.

8 So those are two issues that I think need  
9 to be addressed relative to coverage.

10 DR. PEARSON: I believe it's Lisa, right?

11 MS. LANG: Thank you. While we're talking  
12 about methods of research I would also like to talk  
13 about data, access to data, and I think one of the  
14 questions that also needs to be on the table, Sean  
15 raised it when he started to talk about registries,  
16 is the extent to which the information that CMS  
17 collects can be more adequately mined as a source of  
18 health services research information for what makes  
19 sense and to begin to get to some of these  
20 comparative effectiveness questions looking at the  
21 population in question. And at the moment there are  
22 statutory impediments to access, to outside access to  
23 some of the richest of the data sources, which would  
24 be the information that comes, the clinical  
25 information that is in the hands of the QIOs,

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1 particularly the hospital quality information.  
2 And that's the kind of information that  
3 would be of value, and I think one of the things that  
4 becomes apparent from a research perspective is that  
5 there is not an unlimited amount of money to either  
6 conduct research or collect or establish databases,  
7 so that we need to also be thinking, as we do our  
8 thinking today, about recommendations that would be  
9 relevant to strengthening the sources, access to  
10 sources of data when they're available and making  
11 sure that we're not excluding meaningful sources  
12 unnecessarily.

13 DR. PEARSON: Sean.

14 DR. TUNIS: I just wanted to come back a  
15 little bit on Mark's comment about the methodology  
16 needing to be appropriate to the question, which I  
17 think is absolutely spot on, but I want to make sort  
18 of two observations about that.  
19 You know, when you actually get down to  
20 sort of the nitty-gritty of figuring out what is an  
21 adequate methodology for a given question, it's very  
22 hard to come to any sort of agreement, particularly  
23 among different stakeholders. And obviously, Mark,  
24 you know, an experience we came through over the last  
25 year regarding an appropriate design for a study of

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1 CT angiography for patients at an intermediate risk  
2 of coronary disease, you know. So there's a specific  
3 question and if you say okay, what's the appropriate  
4 methodology, you get everything from you need a  
5 10,000-patient randomized trial with major adverse  
6 cardiac events as an endpoint, to we have plenty of  
7 evidence as it is, it's a proven technology, it's  
8 widely adopted and, you know, no problem.  
9 And then interestingly, where Medicare  
10 sort of came out was, you know, the current evidence  
11 isn't adequate but they're paying for it already so  
12 they will continue to pay for it, which I think,  
13 while it may come out of this group that that's an  
14 important scientific priority, I think there's very  
15 little chance that that study is ever going to get  
16 done. So I don't know where we put that on our list  
17 today of important research priorities for Medicare.  
18 But the primary point is, you know,  
19 whether, you know, a group like this, as we try to  
20 identify important unanswered questions, you should  
21 just recognize that going the next step towards  
22 what's going to be a methodology that's going to be  
23 adequate for clinical decision-making, reimbursement  
24 decision-making, whatever, is not a simple  
25 scientific -- there's no scientific answer to that,



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1 that actually is a sort of mix between methodology  
2 and policy in terms of what is so-called adequate.

3 DR. PEARSON: Yes, Mark, you had a  
4 comment?

5 DR. HLATKY: Yeah, kind of a general one.

6 The first, I guess one of the observations is that  
7 the clinical research that's necessary to provide  
8 evidence on these things is very expensive, it's  
9 difficult to do and it takes a lot of time. And so  
10 one of the two conclusions from that, one is I think  
11 it would be good for various funders and so on to  
12 develop ways to make it more efficient so that we can  
13 do more of this kind of research. And the other  
14 thing is to say that in times when research budgets  
15 are under pressure as they are now, NIH budget is  
16 flat, we have expensive clinical research, that there  
17 may be a lot of pressure not to do these kind of  
18 large studies.

19 And I would think it would be important  
20 for Medicare, for us to say this is really important,  
21 because this is what's going to translate evidence  
22 from fundamental research, which is in the NIH  
23 portfolio, into things that matter to taxpayers, to  
24 everyone else to say it's going to affect medical  
25 care. So I would argue that we especially need

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1 research to figure out things that maybe are not  
2 necessarily done by regulatory or for regulatory  
3 reasons.  
4 I think we have a lot of research done on  
5 pharmaceuticals by industry very appropriately, it's  
6 great, a little less so perhaps on devices because of  
7 requirements to develop that evidence. But we have  
8 much less evidence for certain classes of things like  
9 diagnostics or rehabilitation or procedures or other  
10 things, simply because there's nobody who comes  
11 forward to do that. I would hope that the public  
12 agencies like NIH or the private ones like the  
13 disease associations or professional associations can  
14 stimulate the kind of research we need to fill these  
15 gaps, because I sort of see some of it as structural,  
16 that there's nobody there to pay for, or has the  
17 incentives to do the research to fill some of these  
18 gaps and that's why some of it is there.  
19 And I think it would be very important to  
20 say to the other government agencies that I hope they  
21 continue to put a priority on funding patient type  
22 research, even though it is expensive, so the NIH,  
23 the VA and other organizations.  
24 DR. PEARSON: Would other people like to  
25 comment on that particular point? Yes.

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1 MS. DAVENPORT-ENNIS: Thank you for the  
2 opportunity to comment. I would like to certainly  
3 agree with the comments that have just been made. I  
4 think as the dollars are shrinking we've received  
5 several letters of public comment about the fact that  
6 we need to be certain that we are engaging the  
7 specialty societies, we need to look at the body of  
8 evidence they're already collecting, whether through  
9 a guidelines process and the publication of those, or  
10 at the studies that are already being done so that we  
11 can also leverage against that.

12 When we look at some of the Medicare  
13 evidentiary priorities, I think for our organization  
14 representing patients, we're constantly aware that  
15 whatever this agency does, it becomes a role model to  
16 establish reimbursement guidelines in the private  
17 sector also. And so as we're looking at Medicare  
18 evidentiary priorities, I think we need to remain  
19 constantly aware that whatever we do in this regard  
20 for this agency, it will have a direct impact in the  
21 for-profit and in the private pay and reimbursement  
22 community.

23 That being said, I think not only do we  
24 need to look at collaborations with the other  
25 agencies that have been called out, NIH and NCI, but

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1 likewise we need to be turning to the Department of  
2 Defense and to VA, who have strong bodies of evidence  
3 particularly around subjects such as wound care, skin  
4 disease, that could be used to well inform some of  
5 the evidentiary decisions that we're trying to make  
6 here.

7 Sean cited earlier the role of registries,  
8 and I think certainly if you poll a hundred people,  
9 you may have a hundred different ideas on the value  
10 and how you integrate that information. But I think  
11 there is the opportunity to look at lessons learned  
12 from registries that have been used to this point and  
13 determine if there is a constructive process moving  
14 forward that could be used in using registry  
15 information.

16 So as we look at the global issue of what  
17 studies and how do they need to be convened, I think  
18 I would like to end my remarks by saying I feel we  
19 have a moral obligation not to be redundant in the  
20 studies that are being addressed and not to be  
21 duplicative in the dollars that we're spending for  
22 studies that may have already been completed.

23 DR. PEARSON: Richard I believe is next.

24 DR. WHITE: Thank you. From a clinician  
25 point of view, I think the whole concept of

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1 randomized controlled trials and its strengths cannot  
2 be questioned. But I think it may be field-specific  
3 and also even a procedure-specific thing.  
4 I think the best example is total joint  
5 replacement. All of our randomized controlled trials  
6 that usually extend up to five years don't begin to  
7 really suggest some of the difficulties with those  
8 procedures. The registries that we've worked for  
9 several years to try to establish in orthopedics now  
10 and have not been successful in doing, for a number  
11 of reasons that are beyond the scope of this panel,  
12 are really a shame, because the registries that are  
13 very valuable, such as Norway and Sweden and  
14 Australia, have provided such tremendously valuable  
15 treatment decisions.  
16 Now it's of interest that in this country  
17 we now still fund certain procedures in orthopedics  
18 in the geriatric population that registries have  
19 allowed us to no longer use, because they're  
20 ineffective at long-term follow-up that can only be  
21 really accurately done with registries. So at least  
22 I can tell you generally in orthopedics, but  
23 specifically in the geriatric total joint patients in  
24 orthopedics, registries are extremely valuable. As  
25 valuable and as accurate as RCTs, of course not, but

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1 they each have their strengths in various particular  
2 procedures. Without registries, we would be doing  
3 things that are clearly ineffective, which our  
4 randomized controlled trials would not have picked  
5 up.

6 DR. PEARSON: Yes?

7 MS. FRIED: I just had three very quick  
8 comments. One is that we need to remember that  
9 there's a sizable disabled population that's eligible  
10 for Medicare as well, and some of the comments are  
11 really reflecting aging, and we just can't forget  
12 that there's a sizable under-65 disabled population.  
13 Second is the issue about the FDA approval  
14 of certain drugs has become very important currently  
15 under the Medicare prescription drug benefit where  
16 many people are actually denied access to certain  
17 drugs which have been prescribed because it's  
18 off-label use. And so I think we do need to look at  
19 that issue and how there would be additional research  
20 for that. A lot of important drugs are available to  
21 our Medicare population even though they're  
22 considered off label and not on a compendium.  
23 And finally, reflecting some earlier  
24 comments, we've seen statistics and we've I think  
25 been provided them, that 95 percent of Medicare

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1 beneficiaries have chronic conditions, multiple  
2 chronic conditions, and so if there can be somehow  
3 research that reflects those Medicare beneficiaries  
4 as a whole, that would be especially important.  
5 DR. PEARSON: Let me ask you a question.  
6 If I were trying to sit in the shoes of a  
7 manufacturer and I knew that coverage of evidence  
8 development was a growing possibility at CMS, I might  
9 be hearing from this that we need to do more studies  
10 of people with multiple comorbidities, of the  
11 elderly, and I'm sure they would hear that they need  
12 to do it in multiple racial and ethnic subgroups so  
13 that the broad generalizability findings could be  
14 established. Or they could do it in a healthy  
15 40-year-old population, get good quick efficacy data,  
16 and say why don't we get coverage under CED and  
17 explore how it works in the elderly population.  
18 So I wonder, what would we say about that  
19 trade-off in the thinking about evidentiary gaps, how  
20 much is it worth to go out to get the data in the  
21 elderly beforehand versus, you know, the trade-off  
22 of -- how do we help prioritize that evidentiary gap  
23 given it's always easier to get the evidence more  
24 quickly and efficiently from smaller, more narrowly  
25 defined patient groups, and then look at the

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1 registries or other vehicles after adoption.

2 MS. FRIED: Well, many people know I'm not  
3 a doctor, I'm not a researcher, I'm a lawyer, I'm a  
4 patient advocate, but I think some -- and I may be  
5 wrong and it would be interesting to hear other  
6 comments, but that's somewhat a little bit of a local  
7 coverage policy, where some folks go out, get local  
8 coverage policies, they get it covered. And then it  
9 seems you have claims data and maybe some of that  
10 claims data can be searched and there can be, this is  
11 my ideal world, and people would probably say I don't  
12 know what I'm talking about, but there would be  
13 claims data then for people who are Medicare  
14 beneficiaries getting a certain service.

15 They could look at that claims data, see  
16 when people had certain multiple chronic conditions,  
17 do you think ICD-9 or ICD-10 data, and that might be  
18 a way to gather more evidence and look at outcomes.  
19 I know that some manufacturers or services, they go  
20 for the local coverage policy first in certain  
21 regions, and then see how it's working in the  
22 Medicare population.

23 DR. PEARSON: Nora.

24 DR. JANJAN: I would just say that from  
25 the IRB perspective, when we have a clinical trial



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1 that comes before us, we want the cleanest patient  
2 population possible so that everything that can be  
3 controlled, that the outcomes won't be influenced by  
4 other factors. So when you go through the IRB  
5 process you've got this one tension of having a very  
6 clean patient population so that you know what the  
7 drug is doing, or the device. But on the other hand,  
8 what's the demographic of the application of this new  
9 technology or agent?

10 And so it would seem to me that from, we  
11 need to put those two tensions, we need to resolve  
12 that tension between the IRB and the clinical trial  
13 and how this thing is going to be applied. And  
14 perhaps one of the criteria should be look at the  
15 demographics of where this is going to be used and  
16 that your clinical trial must include that  
17 demographic and allow certain ranges within your  
18 patient population. If we can come to some consensus  
19 on that, I think that would be helpful in getting IRB  
20 approval.

21 DR. PEARSON: Mark, then Barbara.

22 DR. HLATKY: Which Mark?

23 DR. PEARSON: Go ahead.

24 DR. HLATKY: We shouldn't have put the  
25 Marks next to each other here.

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1 (Laughter.)  
2 Just a general comment about research  
3 design. As a cardiologist, I think in my field we've  
4 seen a really good dynamic between the different  
5 kinds of evidence, which is to get clinical trials in  
6 perhaps the more ideal selective populations that you  
7 have described, but also have some registry data  
8 which actually has been funded by professional  
9 societies and by industry at various times that  
10 extend that data into broader populations and more  
11 practical settings. And I think that that  
12 complement, you know, sort of having both covered to  
13 say, you know, not just the trial data and not just  
14 the registry data, but actually both are helpful  
15 because they have complementary strengths and  
16 weaknesses in many ways. So I mean, you have more  
17 validity with the trials but narrower groups, and  
18 then in larger registries we can see how well things  
19 are working in broader populations.  
20 And it may be especially important for  
21 those populations covered by Medicare because many of  
22 them are either older or have chronic conditions or  
23 disabilities that may make them less ideal in terms  
24 of entry into trials. That being said, I do think  
25 it's important to make sure that the trials don't

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1 exclude unnecessarily the target populations that  
2 we're talking about here where, you know, back in the  
3 day we had something where somebody over 65 was  
4 considered to be too old to get cardiac procedures,  
5 and that seems vary fairly ludicrous now, but back  
6 then it seemed appropriate. So I think, you know, we  
7 need to make sure that we have the entry criteria  
8 broad enough, but I do see a complementary role where  
9 we use both types of evidence without over-reliance  
10 on either type, that could be very helpful, and I'm  
11 sure that would work in other clinical specialties as  
12 well.

13 DR. PEARSON: Barbara, did you have a  
14 comment?

15 DR. ALVING: I would very much support  
16 doing the studies in the Medicare population. And  
17 then I think we also need to think about the old old,  
18 because, you know, many of us think 65 is the new 45,  
19 and so the Medicare population really extends across  
20 a broad range of health. But I think if you see this  
21 is used primarily in the Medicare population, we  
22 should definitely include that population and think  
23 about including the range of that population with the  
24 appropriate safeguards, with the appropriate  
25 monitoring, and these are actually the individuals

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1 who in many cases have the time to participate in  
2 clinical studies and the extraordinary interest.

3 And I think we saw this, for example, with  
4 the Women's Health Initiative. These were very  
5 dedicated participants who provided tremendous  
6 amounts of information for our country.

7 DR. PEARSON: Linda, did you have a  
8 comment too?

9 DR. BERGTHOLD: When MedCAC started we put  
10 together a paper on effectiveness, clinical  
11 effectiveness in which we, as I recall, sort of  
12 established a hierarchy of evidence of what would be  
13 acceptable, all the way from the most desirable to  
14 minimally acceptable. And, you know, I think we've  
15 forgotten that that paper exists and I would suggest  
16 that maybe we might go back and take a look.  
17 But I would be interested in knowing if  
18 folks on the panel feel that there are types of  
19 studies or methods that are not acceptable, because  
20 actually in that hierarchy there were kinds of  
21 evidence developments and methodologies that would  
22 not be considered sufficient in any case, so I would  
23 wonder what the panel would think about what would  
24 not be sufficient evidence in any case.  
25 DR. GRANT: What's not sufficient

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1 evidence? I won't answer that, but I will comment on  
2 a few things.  
3 I think the issue of the old old is really  
4 much to the point. Taking off my evidence hat and  
5 back to my geriatrician's, in many areas not having  
6 any evidence to care for those 85-year-old folks is  
7 always a problem. I also, I think that absolutely  
8 one requires, whether it be direct in the sense of  
9 randomized controlled trials or -- and I agree with  
10 Mark wholly that the complementary use of various  
11 sources of evidence to make inferences about  
12 generalizability is probably, is practical, it's  
13 efficient, and it may be in some circumstances the  
14 best that we have and we have to live with that.  
15 But I think that the, I think having,  
16 being able to make some statement about applicability  
17 to the Medicare population is absolutely critical,  
18 who are you generalizing it to, which patients you're  
19 going to use, whatever the intervention might be.  
20 DR. PEARSON: Well, I'll actually answer  
21 in one way Linda's question, because for another  
22 project I actually had to interview decision-makers  
23 at health plans, both public and private insurers.  
24 And especially in the area of interventional  
25 procedures, and you know, we talk about evidence

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1 gaps, and that could obviously include drugs as well  
2 as many different kinds of health services, but a lot  
3 of what CMS has focused on over the years has been  
4 interventional procedures.  
5 And in that domain, decision-makers say  
6 just give me a control group, any kind of control  
7 group. It may not be the randomized type, but give  
8 me something I can at least make an argument that  
9 there's not some extreme bias in the results that are  
10 just a secular trend or just a placebo or something  
11 going on. So I think many of the evidentiary  
12 problems with IP, with interventional procedures come  
13 out of the long tradition that often there were no  
14 control groups and surgeons just switched the way  
15 they started to do things, and lo and behold people  
16 seemed to be doing better, and isn't that the  
17 evidence that we usually rely on, so I think the gaps  
18 often have to do with the idea that if you can help  
19 work in some way to come up with a control group.  
20 And the other key issue that I kept  
21 hearing over and over again was the duration of  
22 benefit. Many times the studies will show a certain  
23 short-term improvement and then oops, that's the end  
24 of the study, and it's just so plausible that that,  
25 you know, that improvement might not last very long

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1 or that when we compare it to usual care, the ends  
2 might meet again in about six to 12 months. The hard  
3 part is there's never a clear boundary of exactly how  
4 long it needs to be, because some people will say it  
5 needs to be ten-year outcomes or we won't really know  
6 what to say about this, and people say we can't do a  
7 ten-year study on everything, so what do we do in the  
8 interim. But there has to be some meeting of minds  
9 in some way such that the duration of outcomes is at  
10 least proximate enough to the needs of  
11 decision-makers that it can help fill their  
12 evidentiary gap.

13 So as far as kind of basic have-to-haves,  
14 I would say some kind of control group and some kind  
15 of duration of benefit that matches decision-makers'  
16 needs are at least two of the things that they  
17 identified as necessary.

18 Richard.

19 DR. WHITE: I think your point is well  
20 taken. I think that one of the issues that we're  
21 talking over and over again is about how can we focus  
22 our evidence on the Medicare population. And I think  
23 at least in orthopedics, certainly a large percentage  
24 of our patients are in the Medicare population, but I  
25 can't think of any probable procedure or intervention

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1 which is performed only in the Medicare population or  
2 only in the non-Medicare population. And I think it  
3 is so difficult to perform a well-done RCT now  
4 anyway, to try to do that only in a -- actually one  
5 could probably do it more easily in a younger  
6 population, but we don't have that luxury in  
7 orthopedics, so to do it only in a Medicare  
8 population might be quite difficult.

9 And certainly if you take an RCT, as you  
10 well know and everyone knows, if you then take a  
11 subset of that just looking at a certain age group,  
12 that destroys the population and the study, of  
13 course. So I think that's a very, very difficult  
14 challenge, to extrapolate the effectiveness of a  
15 non-Medicare study to a geriatric group and vice  
16 versa, very, very difficult.

17 DR. PEARSON: Yes, Ruth first.

18 DR. BUSH: Just to elaborate on what you  
19 said I think, and what else has been said, I think  
20 defining what outcomes are and what outcomes are  
21 important in terms of functionality, quality of life,  
22 what is considered short-term, mid-term and long-term  
23 outcome when you're talking about a 75-year-old  
24 person who's having a procedure, versus a 45-year-old  
25 person who has been enrolled in the prospective



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1 randomized clinical trial. I think one important  
2 aspect of evidence we can gather from is looking at  
3 Medicare evidence in itself, in procedures that have  
4 been done, and using the Medicare data for filling  
5 some of the gaps.  
6 I'm a vascular surgeon. A lot of device  
7 procedures which have been FDA-approved based on  
8 shorter-term evidence, younger populations, have been  
9 extrapolated and approved and are covered by  
10 Medicare, for example, carotid stenting. And I think  
11 that that's one area where, I might get shot for  
12 saying this, I think Medicare has done very well in  
13 requiring physicians to keep their own databases, to  
14 keep their own registries so that you will then have  
15 that outcome data on procedures that were approved in  
16 younger, healthier populations to then extrapolate to  
17 the older populations.  
18 So I think we can also look at the  
19 Medicare data in itself and specifically maybe do  
20 more of that kind of auditing of your own data and  
21 the individual hospitals and practitioners who are  
22 doing it to gather your own registry data. That may  
23 be a way to fill some of the evidence gaps.  
24 DR. PEARSON: Karl, you had a comment?  
25 DR. MATUSZEWSKI: Someone on the panel

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1 mentioned dynamic coverage, and that I was, I think,  
2 an interesting term. What we currently don't have in  
3 terms of coverage, private payers, public payers, is  
4 sort of a sliding scale or conditional coverage. I  
5 mean there are a few Medicare examples, but I don't  
6 think it's used broadly.

7 What you have is a situation where for a  
8 manufacturer, ten years ago it was FDA approval and  
9 now more recently it's getting to payer coverage in  
10 their benefit scheme. But this idea of perhaps  
11 spurring private research funding, and I think I saw  
12 some statistics, about a third of research is public  
13 funding and maybe two-thirds is really the private  
14 funding, is how can you get, whether it's  
15 manufacturers or specialty societies, to begin  
16 answering some of these evidence gaps, and answering  
17 these evidence gaps because it has a direct impact in  
18 terms of the reimbursement for a given procedure or  
19 technology.

20 So you have, some evidence comes out at  
21 the time of approval and then perhaps some more  
22 evidence accrues, whether it's through registry or  
23 perhaps if it's a mandated post-marketing study. But  
24 I think that the ability for a payer, a  
25 decision-maker to ultimately say given the level of

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1 evidence that's been generated on this technology at  
2 this point in time, this is where it fits in terms of  
3 reimbursement, give us higher levels of evidence,  
4 give us more evidence, give us longer-term outcomes,  
5 and then perhaps we can revisit it and see how that  
6 technology falls in the spectrum of all the potential  
7 options. So a dynamic coverage, whereas right now  
8 it's either on or off for many conditions and  
9 technologies.

10 DR. PEARSON: Interesting. Nora and then  
11 Sean.

12 DR. JANJAN: Just a couple questions.  
13 Number one, in oncology, less than five percent of  
14 patients are on clinical trials. The cost of  
15 clinical trials is extremely expensive. And as was  
16 mentioned earlier, some of these clinical trials will  
17 take years to accomplish, and sometimes by the time  
18 you get those results, you've got something else in  
19 the pipeline that might be more attractive or  
20 possibly more effective, so from the clinical trials  
21 point of view it's very difficult.  
22 A lot of clinical trials are now being  
23 outsourced offshore, so you've got different patient  
24 populations, different medical infrastructure, and so  
25 how applicable are those offshore results to the

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1 American population, where our comorbidities may be  
2 different, where our medical infrastructure may be  
3 different. And so I think there are a lot of issues  
4 about, you know, how much time, how long, how much  
5 money, how are we going to get patients on clinical  
6 trials, clinical trials done elsewhere, how are we  
7 going to apply those.

8 Those are issues I think that are  
9 pertinent to our discussion, because if we're asking  
10 for evidence, how are you going to get that evidence?

11 DR. PEARSON: I hope we don't have to  
12 solve that one today. Sean.

13 DR. TUNIS: Just coming back around, this  
14 was sort of triggered by this discussion of dynamic  
15 coverage, one of the things that strikes me that's  
16 going to be probably necessary to stimulate the  
17 creation of the kind of evidence that Medicare or  
18 private payers or others need is, you know, fairly  
19 clearly defined standards about what's minimally  
20 sufficient evidence, and that's not going to be able  
21 to be done on a generic basis, it's going to have to  
22 be done on a technology and condition-specific basis.  
23 So again, going back to Mark Grant's point  
24 about the nature of the study design and the adequacy  
25 of the study design is going to be different for a

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1 cardiac imaging procedure than it's going to be for  
2 an orthopedic procedure than it's going to be for a  
3 wound healing intervention. And unless the  
4 researchers and the product developers know how high  
5 the threshold is and what the criteria are for sort  
6 of what's adequate evidence, a minimally necessary  
7 evidence for coverage with evidence development or  
8 minimally necessary evidence for coverage, it's going  
9 to be very hard for them to figure out how to design  
10 their trials.

11 And I think what currently happens and  
12 we're all familiar with this is, you know, people  
13 come with a batch of evidence to Blue Cross Blue  
14 Shield Association and say is this good enough, and  
15 then Blue Cross Blue Shield Association TEC says sort  
16 of after the fact, you know, yes, it is, or no, it  
17 isn't. But you can't go to Blue Cross Blue Shield  
18 Association, or Medicare for that matter, and know in  
19 advance, you know, here's how we would like to see  
20 trials in this area designed. That's set up for the  
21 FDA, the FDA publishes guidance documents that sort  
22 of generally define technology-specific evidence  
23 standards for regulatory approval, but if we're  
24 talking about reimbursement decision or clinical  
25 policy-making, there's no comparable place to sort of

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1 find that kind of information.  
2 And again, you know, as we're talking  
3 about the desirable characteristics of clinical  
4 research as part of the discussion, A, it's going to  
5 be technology-specific, and B, I think if we really  
6 want to stimulate that kind of research, we're going  
7 to have to be pretty clear on a technology-specific  
8 level about, you know, what kind of patients we want  
9 in those trials, what kind of primary outcome we  
10 want, how long those people should be followed. And,  
11 you know, I don't think it works to sort of, you  
12 know, basically send the message that once you're  
13 done with the trials, bring us the evidence and we'll  
14 tell you if it's good enough then.  
15 DR. PEARSON: Yes, Barbara?  
16 DR. ALVING: I think Sean has very good  
17 points but I would like to say, I see more and more  
18 that FDA, CMS and NIH can really be a very good and  
19 complementary team. And I also liked the comments  
20 about knowledge management. In other words, there  
21 are already a lot of studies going on that are funded  
22 by NIH, that are funded by industry, and we need to  
23 really do, we need to assess the portfolio in some of  
24 these conditions that we recognize such as  
25 Alzheimer's, diabetes, whatever it might be.

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1 I think the fact that FDA does provide  
2 guidance and many people say probably not enough,  
3 manufacturers, they may feel they're still trying to  
4 guess what is needed for approval, but it would seem  
5 that CMS could play into that and say well, we'll  
6 accept that, but then we have to make further  
7 discussions, so CMS wouldn't have to do all the work  
8 that's already been done by FDA.  
9 I think it's also very useful, and that's  
10 why CMS and NIH are trying to work together, because  
11 often NIH will do the clinical trial and say okay,  
12 now you guys, you pay for this. And so CMS can  
13 really talk with NIH and say well, if you're doing a  
14 certain trial, these are the questions we would like  
15 to see answered, this would help us in our coverage  
16 decision. And that's why I think the communications  
17 across the agencies can be extremely useful as we  
18 design trials, registries, whatever.  
19 DR. PEARSON: I wonder if that  
20 communication has to happen on a case-by-case basis  
21 or if there's a way to make it a little bit broader.  
22 I remember there was what I thought was a very  
23 effective MedCAC meeting a year and a half ago on  
24 age-related macular degeneration in which the focus  
25 was not a particular treatment for it, but to bring

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1 together the researchers, the manufacturers, the  
2 clinician community, to say what are the best  
3 measures of visual acuity that we should all try to  
4 be using across the board in research going forward.  
5 They actually did address how long should we be  
6 measuring outcomes out from treatment, and it kind of  
7 got everybody talking in the same way.  
8 So that, you know, there are different  
9 kinds of research gaps. One is when the research,  
10 there's a lot of it but it's all talking different  
11 languages, different outcome measures, different  
12 standards, clinician training, whatever it may be.  
13 But to the extent that that communication could be  
14 framed broadly across FDA, CMS and NIH, I would think  
15 that that could serve a very strong purpose in  
16 helping to fill evidence gaps by making sure that  
17 whatever evidence is generated could be looked at  
18 similarly and combined usefully.  
19 Mark, and then Mark again.  
20 DR. GRANT: Sort of elaborating a little  
21 bit on that point, I think the bar is where the bar  
22 is in terms of evidence. The bar is that the  
23 evidence that's obtained, it certainly has to have  
24 clinically meaningful outcomes, it should have  
25 quality of life and those outcomes that demonstrate



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1 benefit. The bar is set at a place where in terms  
2 of, does it inform our care, our decision-making,  
3 whether it's a policy level, whether it's an  
4 evidentiary level, or whether at the patient level  
5 that leads to a benefit, a demonstrable benefit, and  
6 are we reasonably certain about it.  
7 And I'm not sure it's entirely after the  
8 fact, and I think that when people are designing  
9 trials or designing whatever study they're embarking  
10 upon, that if they don't keep that in mind, and in  
11 terms of macular degeneration, I mean that's where it  
12 is, right? It's what is the most meaningful outcome,  
13 which will then allow us to make better decisions  
14 about the effectiveness of care. And I think the  
15 design of it, it's operational, does it serve the  
16 purpose of informing our, whatever was the policy  
17 level, whether it's -- and otherwise, the purpose  
18 being that we're going to improve the meaningful  
19 outcomes.

20 DR. PEARSON: Yes, Mark.

21 DR. HLATKY: Just a general comment about  
22 the kind of -- I hear a lot of things here that seem  
23 to say this ought to be tied to this kind of  
24 threshold for like a coverage decision or, you know,  
25 FDA approval of the drug or something, and it just

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1 strikes me that a lot of the things that we might  
2 need, to go to Barry's point from the beginning about  
3 one of the emphases should be on quality of care and  
4 what we're doing, is that that black and white thing  
5 is really very simplistic, because I can think of  
6 plenty of procedures in my own field like in  
7 cardiology that should be approved, should be paid  
8 for. But then the question is not, you know, should  
9 we pay for bypass surgery, but it's like who does it  
10 work in the best, what outcomes is it affecting, are  
11 there ways to do it better, to improve the quality of  
12 that care, get it to be done appropriately and so on.  
13 So there's a lot more things I think that  
14 are just sort of saying, you know, is the only thing  
15 of interest to Medicare whether to cover it. I think  
16 if you were to even restrict the things that are  
17 already covered, there are still plenty of questions  
18 that are important to this population that have to do  
19 not just with coverage, but determining the  
20 boundaries of how well things work and how to do them  
21 better and more appropriately.  
22 DR. PEARSON: Other comments on that part  
23 of the topic? We'll start down with Richard and work  
24 our way up.  
25 DR. WHITE: One last comment. I think if,

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1 as Dr. Straube said, one of our goals is to bring new  
2 technologies forward appropriately, evaluated to the  
3 Medicare beneficiaries, in a sense, at least in  
4 theory, the FDA attempts to do that. They attempt to  
5 say that something's safe and effective for some  
6 short-term basis, so the public could be exposed to  
7 it. On the other hand, those FDA decisions may be  
8 much different in many cases than coverage decisions,  
9 and I think then it's a matter of how we do that. So  
10 if we define, if we try to move the bar up for a  
11 research point that we want to have a much higher bar  
12 than the FDA, we hope that might be true, but  
13 nevertheless, there may be a conflict there.  
14 From a pure orthopedic point of view, if I  
15 were to tell you when it's really been shown that one  
16 new total hip replacement is better than the one we  
17 were using, probably the real answer is 10 to 15  
18 years after it's been studied. And so if the FDA  
19 waits that long to improve it, it will still be  
20 obsolete. On the other hand, if we wait that long to  
21 pay for it, very few will be done if it's not paid  
22 for. So it's a very, to me it's really a conflict  
23 here in what we're trying to do, bring the technology  
24 quickly but also be certain of what level of research  
25 are we going to desire and justify.

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1 DR. PEARSON: Coming down, we have Karl,  
2 or you go ahead first, Nancy.  
3 MS. DAVENPORT-ENNIS: Thank you. A couple  
4 of observations to the question from the patient  
5 perspective, I think. First, I need to call out the  
6 fact that when we start looking at what is the  
7 appropriate mechanism for clinical trials and are  
8 there clinical trials that may indeed not be  
9 appropriate for this population, this population is  
10 broadly defined not only as aged and not only as  
11 disabled, but also as great diversity in the United  
12 States of America, and with that diversity comes  
13 great economic diversity. And I think that we have  
14 proven now for years that if you cannot have a system  
15 of reimbursement for a therapy there are huge sectors  
16 of the population, today 35 million underinsured,  
17 47.6 million uninsured, and even within the Medicare  
18 population, while indeed they may be insured, they  
19 may not be indeed insured with a mechanism for  
20 reimbursement for the treatment that they need.  
21 So that being said, looking only into the  
22 cancer community for a moment, it seems that there is  
23 an appropriate opportunity for us to look at trying  
24 to accelerate studies within the field of diagnostic  
25 testing that can determine through biomarkers whether

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1 we're going to have an enhanced opportunity for the  
2 patient to respond favorably to the particular  
3 therapy that is being recommended to them. And that  
4 in doing that, we will also satisfy the notion that  
5 most patients say to us and to physicians I think  
6 throughout the United States of America, which is, I  
7 want to do this if one of two or three things are  
8 going to happen:

9 Will I have an improved outcome at the end  
10 of the day over a standard therapy? Number two, will  
11 I have an improved quality of life if I'm part of  
12 this? And number three, will this be a process that  
13 may afford for me longer independent living? And in  
14 the last discussion that we had around this very  
15 evidentiary priority discussion we talked a lot about  
16 the needs of the patient to know that whatever  
17 they're going to participate in is going to lead to  
18 longer independent living and some improved quality  
19 of outcomes.

20 We also had great discussion around should  
21 we assign some percentage of every clinical trial  
22 that indeed should be comprised of the Medicare  
23 population, and we determined that that was not in  
24 the greater good of all citizens in the United States  
25 of America, that indeed we would not want to reach a

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1 point where he we had accrual to a trial and we were  
2 almost in, but perhaps we didn't have that magic  
3 percentage. So if we're trying to answer the  
4 question, I'd like to challenge the panel to consider  
5 that we do focus time on diagnostic testing within  
6 this population that can give us some insight into  
7 what is going to be the enhanced opportunity for  
8 positive responses to the trials.

9 DR. PEARSON: Karl.

10 DR. MATUSZEWSKI: Again, I can't answer  
11 your challenge but I'll throw out another one. I  
12 heard several times mentioned today quality of life  
13 and sometimes in the context that there is that data,  
14 sometimes in the context that it would be useful, and  
15 I think it is a greatly underrepresented element in  
16 research. I think that prolongation of life,  
17 surrogate markers, whether it be restenosis or curing  
18 infections, I think that's well understood, FDA  
19 understands that.  
20 Quality of life is something that's very  
21 difficult to get into a labeled indication. I mean,  
22 FDA is really tough, and there might just be a  
23 handful of devices or technologies that have that.  
24 But yet in terms of what happens in the United States  
25 and what happens internationally, quality of life is

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1 much more advanced in the UK and other countries.  
2 There are a number of instruments, there's a number  
3 of methodologies, those I think are more developed  
4 and more used in reimbursement decisions and clinical  
5 decision-making in other places that are not in the  
6 United States. And I think that is a huge, huge lack  
7 of investment in terms of developing research agendas  
8 surrounding that issue that ultimately may be one of  
9 the most important from a patient perspective, of  
10 which intervention is going to get me the quality of  
11 life that I would expect. Clinicians very rarely  
12 know what, in terms of different alternatives, what  
13 will add the most quality to a patient's lifestyle.

14 DR. PEARSON: Thank you. Mark and then  
15 Sean.

16 DR. GRANT: Okay. I just want to step a  
17 little bit back about the issues related to duration  
18 of -- generally duration of follow-up and  
19 particularly for many procedures, long-term follow-up  
20 is required to ultimately define efficacy. I think  
21 one thing CMS can do and all of us can do, and  
22 researchers as well, is be more explicit about what  
23 is the ultimate chance that we're right versus we're  
24 wrong in terms of what we define regarding the  
25 effectiveness of a particular intervention or

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1 procedure, whatever it is. And I think we fall short  
2 there in terms of saying how uncertain we are,  
3 because we're not going to be right all the time,  
4 we're going to be wrong, researchers are going to be  
5 wrong, are going to make wrong decisions sometimes.  
6 But the issue is being explicit, and it's  
7 not that hard to say I'm willing to tolerate, you  
8 know, a 30 percent chance I'm wrong for this  
9 particular procedure versus another given the likely  
10 benefit, and, you know, we'll do this particular  
11 procedure even though we know that we need long-term  
12 follow-up out to ten years, but we're going to accept  
13 five years and the attendant uncertainty.  
14 I think where we fall short in terms of  
15 decision-making is really putting numbers out there  
16 explicitly and saying this is the basis of our  
17 decision. Because some of these decisions will be  
18 reasonable, rational and appropriate and allow us to,  
19 you know, bring things quickly out to light, but at  
20 the same time recognizing how much uncertainty we  
21 have.  
22 DR. PEARSON: Sean was next.  
23 DR. TUNIS: I just had one more thing in  
24 terms of this conversation about sort of general  
25 characteristics of the kind of evidence that Medicare



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1 might be interested in. I guess, Steve, if you  
2 weren't chairing you would have mentioned it, but you  
3 know, the economic outcomes and the financial  
4 implications of alternatives needs to be designed  
5 into these studies as well. And while I'm fully  
6 aware, Barry, that Medicare doesn't use economic  
7 considerations in coverage decisions, part of the  
8 whole quality framework that you outlined talks about  
9 transparency of costs and quality, and also payment  
10 reform that rewards efficiency.

11 And you know, in sort of the emerging  
12 payment world where consumers are more responsible  
13 for the economic implications of our decisions, where  
14 providers are going to be more responsible for  
15 choosing efficient options, obviously the research  
16 agenda is going to have to include gathering  
17 information about not only the comparative risks and  
18 benefits, but also the comparative costs.

19 To flag one serious dilemma that that  
20 raises which is encountered numerous times is, you  
21 know, the legitimacy of comparative research when the  
22 primary motivation is, you know, that there's no  
23 reason to believe there's a difference in outcome,  
24 but there may very well be a difference in costs. I  
25 think those kinds of trials, for example, a study of

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1 Aranesp versus Procrit is one example to look at some  
2 people's blood pressure rising. But you know,  
3 there's a study which may not have a compelling  
4 clinical argument to do it but it has a very  
5 compelling economic argument and, you know, we have a  
6 lot of thinking to do to figure out in what  
7 circumstances are such trials either ethical,  
8 practical, or worth what can be a very large  
9 investment actually, to get that information.

10 DR. PEARSON: Which, I'm going to pass it  
11 down in a second, but there's probably a reason why  
12 Sean and I have been separated by MedCAC, to keep us  
13 from -- but he built the soap box so I have to jump  
14 on it.

15 The word cost effectiveness in this list  
16 somewhere. Every developed country in the world, if  
17 you had talked to them about their evidence gaps and  
18 research priorities, quality of life and cost  
19 effectiveness, which includes both clinical outcomes  
20 as well as the cost and other impacts on patient  
21 utilities are front and center. And I think it's  
22 very important and I'm really glad Sean brought it  
23 up. For all the reasons that comparative  
24 effectiveness research is needed in general, there  
25 are critical evidence gaps having to do with the cost

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1 effectiveness and impact on quality of life for a lot  
2 of medical interventions.  
3 So I think that it would be very healthy  
4 for this panel to highlight that as one of the  
5 evidence gaps that, and types of research going  
6 forward, that yes, patients and doctors and systems  
7 of care will look at evermore in the future. I think  
8 the Secretary was out just yesterday and was quoted  
9 as saying that Medicare is -- do you remember the  
10 exact words he used?

11 DR. STRAUBE: I think he said on a  
12 disaster course.

13 DR. PEARSON: On a disaster course. The  
14 evidence will be necessary to help us get it back on  
15 track. Yes?

16 MS. FRIED: Well, if I recall -- I had a  
17 different comment, but you know, cost effectiveness  
18 always raises my blood pressure. I remember years  
19 ago when the proposed regs came out, there was a lot  
20 of language about cost effectiveness. My guess is  
21 that's why they never came out with the final because  
22 there was just such an outcry, because the lawyer in  
23 me sees that the statute says reasonable and  
24 necessary, not reasonable and necessary and cost  
25 effective. And I think using cost effectiveness is

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1 something we just have to be careful about when we  
2 are discussing it.  
3 I heard duration of benefit and I actually  
4 have a question for those of you who used it. Were  
5 we talking duration of benefit in follow-up in the  
6 research, or duration of benefit of whatever the  
7 therapy or treatment is? Because I think for many  
8 beneficiaries six months of a longer life or six  
9 months of greater cognition, or six months or eight  
10 months of a better quality of life, even if that  
11 means that eventually they will die, is very  
12 important. And especially if we're looking at the 85  
13 and older, or any people within our Medicare  
14 population, that's an important question.  
15 DR. PEARSON: Just briefly, I think that  
16 for most people it would be the concern that,  
17 especially if you're comparing a new treatment versus  
18 what we already do, that if the new treatment has a  
19 short-term improvement but it has good reason to  
20 suspect that it may at six months, six months later  
21 it may all end up the same or even worse after six  
22 months, you just have to be very careful about the  
23 frame of the research. So it's not saying that a  
24 short duration of benefit is not important, it's  
25 making sure that that benefit is real compared to

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1 something else.  
2 Does anyone else have something teed up to  
3 say? If not, let me reflect, it's about the half  
4 point, and I wanted to just let Barry say -- clearly  
5 these conversations are not prescribed, you can tell  
6 that we have ranged widely. So let me just reflect  
7 back with Barry to see how he feels we are addressing  
8 Medicare as CMS is the customer in this process, and  
9 see if he can focus our remarks.

10 DR. STRAUBE: Good, thanks, Steve. This  
11 has been a very interesting discussion, I want to  
12 thank everybody for their comments so far, and that's  
13 what we would expect of this august group. You all  
14 have a lot of background and knowledge and that's why  
15 you're here on this panel.

16 A couple of reactions. One has to do  
17 with, again, the concept of a new term I think we  
18 started to use, dynamic coverage decision-making.  
19 And I think that fits perfectly with what the intent  
20 when Sean was leading the effort here a few years ago  
21 and started coverage with evidence development and  
22 the way it's evolved since then. That was in fact  
23 one intent of coverage evidence development. I  
24 think, though, I would like to mention some of the  
25 limitations with how we've defined coverage with

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1 evidence development so far and maybe generate some  
2 feedback on perhaps how we can consider differences  
3 to that.

4 When Mark McClellan okayed that early on,  
5 it was expected that we would do CED in a very  
6 limited number of circumstances, and I think that was  
7 predicated on the original and at least what we're  
8 continuing to do perception that we will invoke the  
9 coverage with evidence development approach when the  
10 overwhelming evidence that we look at in making a  
11 coverage decision is almost there to meet what would  
12 normally get coverage but in the past would have led  
13 to a noncoverage decision. So it's very, very, very  
14 close to getting coverage, but rather than noncover  
15 it because it didn't quite make it, we do coverage  
16 with evidence development to try to get over that  
17 little little hump that's left.

18 The problem is I think a lot of folks,  
19 including many in the audience, would probably hope  
20 that we would kind of widen the gap so that we're not  
21 that close but maybe that close or this close, or  
22 this close, and I think that's one of our dilemmas  
23 going forward to use dynamic coverage or coverage  
24 with evidence development, or whatever we want to  
25 call it. It's how narrow should that, or closeness

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1 meeting definite coverage criteria should we be at.  
2 So that's one thought we might follow up on.  
3 The second one has to do with the concept  
4 of, we can either try to be in alignment, as Barbara  
5 was pointing out and others, with FDA's needs, CMS's  
6 needs, and from a research standpoint NIH's  
7 expectations. And one way is to do it all up front,  
8 and indeed, it's been a frustrating process and some  
9 folks in the audience have heard me kind of mention  
10 that it's back off the back burner every once in a  
11 while, and that is so-called parallel review.  
12 I think before I mention that, we've  
13 always encouraged at CMS for folks with new  
14 innovative technologies who are considering getting  
15 FDA approval and/or eventually CMS approval to come  
16 in and talk with us as early as possible. FDA of  
17 course encourages that too. The frustrating thing  
18 has been that, again, FDA's needs may be different  
19 than ours, they actually are. So wouldn't it be nice  
20 if we could develop a process where people could come  
21 in and talk to FDA and CMS at the same time, where we  
22 can provide feedback and help drive the design of a  
23 randomized clinical trial or whatever type of  
24 evidence we want to get at.  
25 Informally that's there now, people can

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1 come in. The problem is, we are not authorized to be  
2 able to talk at the same time as FDA because of  
3 statutory requirements and such right now. So we're  
4 continuing to discuss that internally, and strongly  
5 hope that we will be able to do more in terms of  
6 getting together, and NIH could be a part of this too  
7 based on I think some of the feedback I'm hearing in  
8 this conversation.

9 But if we don't do it up front, then it's  
10 this back end, where we've provided coverage and  
11 again, we get, how close do we have to be to the  
12 standard criteria for full coverage before we invoke  
13 some dynamic coverage process. So let's hold that,  
14 Steve, and maybe get some comment.

15 The second thing I wanted to mention, I  
16 guess a lot of what I'm hearing, I'm trying to put  
17 back into the context of what we're going to be doing  
18 this afternoon, and that is prioritizing evidence  
19 gaps. And what I'm hearing is some answers, although  
20 not everything addressed what I would tee up as if  
21 you look at the list that we've generated and you're  
22 going to talk about this afternoon, why are there  
23 gaps there. And I think it might be interesting to  
24 answer that question.

25 We've had a few suggestions, one is



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1 funding, there just simply hasn't been funding to  
2 look into these particular questions. Some is that  
3 if we adhere to the gold standard of a randomized  
4 clinical trial that it's too expensive or too  
5 complicated or that we can't get the patient  
6 population, et cetera, to meet that need. So that  
7 gets back to I think a very helpful discussion of,  
8 short of a randomized clinical trial, what other  
9 evidence-gathering mechanism should we be considering  
10 and should folks who need to gather the evidence be  
11 considering, so we can narrow that gap.  
12 So why are there the gaps, and again, it  
13 might be useful to look at the list and, you know,  
14 you can pick one out, a couple out, irrespective of  
15 where they come out on the prioritization list. You  
16 know, pick genomics, I think Nancy brought that up.  
17 We've established a genomics work group here at CMS  
18 because this is an area that's going to hit all of  
19 us. And so why are there gaps? You know, if we pick  
20 on the genomics genetic risk factors. How does  
21 knowledge of genetic risk determine its improved  
22 screening and prevention programs, or certain  
23 treatments? Why haven't -- we've gotten lots of  
24 effective tests, but why the clinical utility gap?  
25 Why aren't we addressing some of those to determine

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1 when a genetic test in fact is useful and might lead  
2 to better outcomes?

3 And then as the follow-up corollary, why  
4 are there these gaps to these, what are the barriers?

5 So once we identify and prioritize them, we might  
6 address those, how can we fill the gaps.

7 So I throw those out for discussion.

8 DR. PEARSON: Okay. I think that second  
9 one is very important and I think it will be a good  
10 topic.

11 Before we do that, should we have brief  
12 comments if there are any on the question of what,  
13 does anybody have anything to say about the, in a  
14 sense, the spread of the threshold, the evidence  
15 threshold that separates CED from usual coverage and  
16 from no coverage at all? Yes?

17 MS. FRIED: Well, there's also local  
18 coverage policies, and I raise that again because  
19 that was not listed in your group. And I was  
20 wondering, Barry, if you, if there can be, I don't  
21 want to call it a demonstration project, but  
22 something where there would be, if the gap is much  
23 broader, if it could be, you know, local coverage by  
24 a certain carrier with evidence gathered at that  
25 point, versus on the national level.

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1 DR. STRAUBE: That's a good point, Leslie.  
2 I think for the whole issue, national coverage  
3 decisions versus local coverage decisions is another  
4 whole controversial, very controversial topic. And I  
5 think what you're suggesting could be one additional  
6 model that we might consider. The problem that I  
7 see, I suppose, is which local entity would do this.  
8 If it's on a treatment or a service or a test, that  
9 there's one organization that does the testing that's  
10 in the jurisdiction of a MAC, you could do it. But  
11 if it's a service that's being provided nationally,  
12 it gets a little bit problematic with doing it in one  
13 area, because you're restricting it to the population  
14 in that area, which may have unique characteristics  
15 also. So I think it's something we could put in, but  
16 it's somewhat problematic, I think.

17 MS. FRIED: Just to follow up, the reality  
18 is that's what's happening now because you have  
19 coverage, depending on where you live and who the  
20 carrier or MAC is, you may have coverage for a  
21 service in one region but not another. So I just, I  
22 agree that the whole LCD is a big issue but they do  
23 that.

24 DR. STRAUBE: Yeah, they do. But then as  
25 you know, there's other areas that don't cover in

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1 that area, or they cover it under different  
2 circumstances, so that automatically generates a  
3 national coverage determination, not automatically,  
4 but it often leads to that.

5 DR. PEARSON: Mark?

6 DR. HLATKY: Just a comment on the whole  
7 gap issue. I mean, I think that there's really two  
8 reasons for that. One is, the biggest one is  
9 probably just, it's in the life cycle of what we're  
10 talking about. A lot of these things are new  
11 technologies of some kind and so by definition we  
12 need to develop the evidence. And for other things  
13 there may be more mature technologies that are out  
14 there but for other reasons they haven't had evidence  
15 developed.

16 And I keep coming back to this idea that  
17 there are certain classes of things that we tend to  
18 have really good evidence about because there are  
19 very strong incentives for people to develop  
20 evidence, or for the private sector to develop  
21 evidence. So if you want to get a drug approved, the  
22 FDA says you have to do trials. And we have very big  
23 trials, they want to get labeling indications,  
24 there's a great incentive for the private sector to  
25 conduct the trials that are needed to provide that

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1 evidence, maybe less incentive after they're  
2 approved, but there's still a tremendous incentive.  
3 There is no such incentive for  
4 diagnostics, which tend to come up on the list that  
5 you mentioned. You know, the genomics, they don't  
6 have to meet the same standards, they don't have to  
7 show that there's improved patient outcome from using  
8 a diagnostic, and that's why we don't have any  
9 evidence, in my view, is in part that nobody is  
10 saying we need that evidence. So I think that's a  
11 huge gap, and there's some other ones as well besides  
12 diagnostics.  
13 It is certainly the case for procedures,  
14 surgical procedures and so on, we often don't have  
15 the same standards. So part of it is just, we have  
16 very different levels of evidence that are required  
17 for, say drugs, which are probably the highest, and  
18 some devices that are implantable devices, we have  
19 evidence maybe less so than drugs from a regulatory  
20 perspective, and for some things there's very little.  
21 And I think one of the questions is, you know, how do  
22 we incentivize, you know, how do we get people to  
23 come forward with that evidence, and could some of  
24 this process be helpful in saying, you know, gosh, we  
25 really need to have evidence so we'll get a coverage

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1 decision for this new diagnostic or whatever there.  
2 Because there's clearly no, it's in  
3 nobody's interest necessarily to do those studies,  
4 and I would say a lot of groups may think that on the  
5 diagnostic side that just demonstration and  
6 information that's provided is sufficient, and many  
7 of us would argue that that's, you know, you need to  
8 go beyond the next step of just demonstrating that's  
9 useful information, that it actually helps  
10 beneficiaries or other patients.

11 DR. PEARSON: We may want to start getting  
12 into the wider evidence gaps, but I did have one  
13 answer for at least the CED evidence gap, and this is  
14 something that has been an open question ever since  
15 CED came into its existence. One thing that I would  
16 say is that I think that, and this is easy to say,  
17 but one thing you would want is for safety to be  
18 prioritized. If you're looking for that bottom  
19 threshold where things need to get over it in order  
20 to be even considered for CED, you would want there  
21 to be enough robust evidence about safety. You may  
22 still not know very much about whether it's more  
23 effective than what's currently done, but if you have  
24 pretty good assurance about its general safety, that  
25 to me would be one of those key things in defining

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1 the floor for a CED.  
2 But I do think that it should ideally stay  
3 relatively narrow at the top, partly because we're  
4 still learning about the best ways to perform CED  
5 even if we decide to do it or not. We haven't really  
6 done very many of those loops where we actually  
7 launch a registry or clinical trial, learn from it,  
8 and feed it back into approved decision-making by  
9 patients and doctors. There are a lot of registries  
10 out there in their infancy where we're still learning  
11 on that learning curve. So I think going a little  
12 bit slow and treating CED as an experiment in and of  
13 itself is relatively important.  
14 I do wish that it could be -- I love the  
15 term dynamic coverage. Who could be against dynamic  
16 coverage? I like dynamic coverage, and I like  
17 dynamic pricing too. Why couldn't we consider CED to  
18 be linked to a concept that if you're not going to be  
19 covered yet, we may cover with some evidentiary,  
20 again, floor to it, and we'll pay you what we  
21 currently pay for this condition or, you know, care  
22 pathway. That way we will learn, you know, the  
23 products that wouldn't have been otherwise approved  
24 but that have pretty close evidentiary principles in  
25 a responsible way. Because I think, you know, some

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1 people may think that that's a crazy way to, the  
2 easiest way to thwart innovation of any kind, but if  
3 there isn't the right evidence to get full approval,  
4 I do think CED could consider some linkage to pricing  
5 to facilitate the ability to broaden that gap, or  
6 that band, if you will, a little bit further.  
7 I just took us off into a completely  
8 different policy discussion.

9 DR. STRAUBE: If I could, Steve, dynamic  
10 coverage, I think there are other examples that we've  
11 used recently, the most -- I'll be raising the blood  
12 pressure of my colleagues from AmGen perhaps, but the  
13 erythropoietin stimulating agents is an example of  
14 that, both on the ESRD side but also on the cancer  
15 side. On the ESRD side we've had an erythropoietin  
16 monitoring policy that in fact, we gradually ramped  
17 up our monitoring and also changed our coverage  
18 restrictions trying to address the issue of overusage  
19 of ESAs in dialysis patients, putting them up to a  
20 level that clearly didn't show any benefit, and  
21 indeed as we got evidence that there may be risk to  
22 that, put them at risk, and in fact we have been  
23 monitoring the effect of that after we've implemented  
24 those payment policies and seen a decrease, not  
25 surprisingly, in the usage above hemoglobins of 13.



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1 And in fact we've seen an increase in the range that  
2 is desirable by guidelines from KDOQI of patients in  
3 the sweet range of 11 to 12 for that therapy. So  
4 that's one issue, and we're continuing to look at  
5 that and will reconsider changing that policy based  
6 on the results that we get having implemented it.  
7 On the cancer side, along with what you're  
8 bringing up, where FDA had approved ESAs in cancer  
9 for specific indications, felt that they were safe  
10 and effective, but all of a sudden there's a spate of  
11 studies that come out questioning the safety in that  
12 population. So we again intervened with a national  
13 coverage decision which was quite controversial when  
14 it first came out but I think is ultimately going to  
15 be shown to be in keeping with where FDA will come  
16 down. And that was dynamic because we felt we had to  
17 protect Medicare beneficiaries, which gets back to  
18 your safety point, first and foremost.  
19 So I think there's other examples of how  
20 we're doing dynamic coverage.

21 DR. PEARSON: All right. We can continue  
22 on either vein, I think we've opened up both now, the  
23 barriers to why there are the gaps that we're looking  
24 at and/or further comments on CED. Yes, Nora.

25 DR. JANJAN: I would just say that it

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1 seems to me what we have is not only dynamic coverage  
2 but dynamic gaps of evidence, because as we talked  
3 about before, certain drugs or devices are approved  
4 for certain indications and as experience is gained  
5 with that, it's expanded in its application and so  
6 what you have then is a gap of evidence, a dynamic  
7 gap of evidence as you use the agent or drug more  
8 broadly. And so I think it's extremely, the examples  
9 that you cited are important, because there is a  
10 disincentive to continue to follow patients and  
11 evaluate in the broader population because if you  
12 find something that you don't want to find, then  
13 there will be restrictions in coverage.  
14 So you know, obviously there's an  
15 incentive to get the coverage and then have it  
16 broadly used, but there is a disincentive if you find  
17 something that you restrict that coverage, so I think  
18 we need to align our incentives for all the  
19 stakeholders. And our primary incentive is to the  
20 patient, what's safe, what works, how does it impact  
21 their life, and keep all those aligned, all those  
22 incentives aligned where somebody gets something  
23 positive out of continuing to monitor. Because, you  
24 know, we need to make sure that all the stakeholders  
25 involved get something out of maintaining that high

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1 level of evidence and effectiveness for the patient.

2 DR. PEARSON: Yes?

3 MS. DAVENPORT-ENNIS: A couple of

4 observations when we talk about coverage with

5 evidence development. I would like to begin by

6 stating the obvious. Certainly agencies have one

7 motivation for needing to get the coverage with

8 evidence development right. The patient probably is

9 the most vested stakeholder in seeing that we get it

10 right. When we look at the fact that today, I agree

11 completely with Leslie's remarks, that you've got

12 local carriers who are making decisions daily around

13 coverage with evidence development, there may be an

14 opportunity to at least do a summary meta-analysis of

15 their experience and what are the lessons learned to

16 date from some of those local carrier decisions

17 around coverage with evidence development, to see if

18 the process that they're using at local levels could

19 indeed seek to inform the process that may be used

20 ultimately at the national level. So that would be

21 one observation I would like to share.

22 I would like to go back, Barry, to your

23 example around the ESO issue and the ESRD issue to

24 simply say that I think that particular process

25 affords such a perfect window into the fact that as

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1 CMS is considering evidentiary priorities to  
2 encourage research studies, that at the same time  
3 there has got to be very deliberate attention paid to  
4 making certain that as studies are being done,  
5 there's going to be some coordinated evidence or body  
6 of evidence that's going to be produced for the  
7 United States.

8 I think for many people in this audience  
9 and for some of you on this panel who sat at NCI for  
10 two days on December 18th and 19th and listened to  
11 researchers from around the world doing cellular  
12 studies in these areas, we walked out with the same  
13 conclusion, more questions unanswered than answered,  
14 and more processes used without conformity, and the  
15 result was insufficient information to really get  
16 anyone to where we need to be. And with shrinking  
17 resources in the country when we look at the  
18 evidentiary priorities we've got to talk about today  
19 and the study process to get to answers, we need to  
20 be looking very deliberately at what are we going to  
21 do to give us some answers that at the end of the day  
22 will serve the population well.

23 DR. PEARSON: Sean.

24 DR. TUNIS: Just one more comment, I guess  
25 on this sort of size of the gap, you know, how close

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1 for CED do you have to be. Of course, you know  
2 there's a serious interaction between that and, you  
3 know, how long it would take and how much money it  
4 would take to sort of close the gap. So, you know,  
5 if the decision is well, you know, you're almost  
6 there but it's going to take a five-year randomized  
7 trial to close the gap, and in the meantime the only  
8 patients who are going to have access to the  
9 procedure are those enrolled in the trial, that's  
10 really different than, well, we can close the gap  
11 with a large national registry where basically  
12 everybody is going to get the technology anyway.  
13 Basically it's a positive coverage decision with a  
14 slight additional requirement that some data is  
15 collected.

16 So, you know, the dilemma here, and, you  
17 know, you faced it I presume in the example of the  
18 PET scanning for oncology, is that was a pretty  
19 acceptable CED decision because we were trying to  
20 close the gap using, you know, kind of self-reported  
21 information on change in management. You know,  
22 whether or not that really is going to provide the  
23 kind of evidence about the clinical utility of PET  
24 scanning for any of those oncology indications,  
25 that's a whole different question. But if you try to

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1 do CED and say we're going to do CED, but we're going  
2 to require randomized studies of diagnostic utility  
3 showing impact on patient outcomes, then, you know,  
4 that's a really different dynamic in terms of how  
5 acceptable.

6 So in other words, you know, how close,  
7 how small that gap is really depends very much on,  
8 you know, what kind of evidence Medicare and  
9 everybody thinks you need, you know, to move the  
10 final little bit of distance. So again, it  
11 ultimately comes back to, not surprisingly since I  
12 was connected with it, the same issue, which is  
13 what's, you know, what is the sufficiently robust  
14 methodology to adequately answer the question that  
15 you're trying to answer.

16 DR. PEARSON: Yes.

17 DR. WHITE: Just to follow up on the same  
18 thought as a clinician, I think that we're talking  
19 about what level of evidence we need for various gaps  
20 to be reduced. It just seems to me that it's so  
21 costly to do a randomized controlled trial and so  
22 difficult especially to design one that has to do  
23 with the Medicare population. Wouldn't it be nice if  
24 we could make it very clear to people who are  
25 dedicated enough to do these trials to make those

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1 trials designed, at least they have a concept of what  
2 NIH might, what the FDA may want, CMS may want, at  
3 least so we wouldn't go through the expense of  
4 conducting a trial and miss a big potential  
5 application of it. And it may not necessarily be an  
6 application for a given device at that time, but it  
7 may serve as an important baseline for the body of  
8 evidence for a trial that's going to happen and they  
9 may be very well aware of one to two years down the  
10 road.

11 So I think if we can clarify what we are  
12 demanding of this, not just say you have to have an  
13 RCT or you have to have a registry or you have to  
14 have this, but wouldn't it be nice if we could -- and  
15 heaven forbid we all wonder what the FDA's  
16 requiring -- I think we could really define this,  
17 that would be a great goal of this committee, I would  
18 think.

19 DR. GRANT: I wanted to go back to the  
20 issue about the gaps in maybe genetic testing, but  
21 first draw an analogy which is not genetic but  
22 cardiac computed tomographic angiography, and there's  
23 an example that's really no different. The test came  
24 on the market, came out, we could demonstrate that  
25 it's similar to coronary angiography but outcomes

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1 weren't examined.  
2 And I think that Mark is right on target  
3 in terms of why there are gaps in the genetic testing  
4 role, and I think they are gaps that really need to  
5 be addressed and made explicit as to the kinds of  
6 evidence that we need, that being we need to have a  
7 demonstrable improvement in clinical benefit. And  
8 these tests are really attractive, the biomarker  
9 tests, all these things, you know, they seem like  
10 they're going to work, you know, they're the panacea,  
11 genetics is the new world.  
12 And it may very well be, but at the same  
13 time I think there's, adopting them as technologies  
14 we need to say that, we need to require that the  
15 evidence really does show clinical benefit, or if it  
16 doesn't definitively show it, then we're going to  
17 look at it, an archetype would be, you know, an  
18 example of that. But I think the incentives are  
19 there, or I think the incentives will be there as  
20 soon as people are marketing them. I think that's  
21 coming.  
22 DR. STRAUBE: If I could just interject,  
23 the CT angiography in cardiac disease is an  
24 interesting case study, I think, to me, in several  
25 ways. One, it's an example of a technology that the



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1 horse got out of the barn and it was subjected to  
2 local coverage decision determinations and whatnot,  
3 and there was some inconsistencies, and it was widely  
4 in use when we decided to open it up to a national  
5 coverage decision.  
6 When the medical community has embarked  
7 and is already using technology without necessarily  
8 having looked at the strength of evidence or the  
9 settings in which it should be used, or the  
10 indications for which it should be used, there is  
11 this community practice precedent that gets set, and  
12 it's very difficult then to withdraw coverage. So  
13 that was one thing we learned out of CT angiography.  
14 And I suppose to some extent this puts an  
15 onus back also I think on all of us who have been or  
16 are practitioners before we start using technology,  
17 regardless of whether it's paid for or FDA-approved  
18 or on-label or off-label, or whatever. Are we just  
19 using it without really understanding the evidence  
20 behind why we're using it or whether we should be  
21 using it or not.  
22 I think it does bring up very definitely  
23 the issue of comparative effectiveness and certainly  
24 it raises the cost effectiveness, is it, for the cost  
25 involved, adding anything. And then we also learned

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1 that there were some subcategories here, this gets  
2 back to, you can look at an overall population, but  
3 clearly it was our feeling that in high risk  
4 patients, these are the type of patients that most  
5 clinicians would have go straight to the regular  
6 angiography, not do CT angiography in a high risk  
7 patient, but use that as a defining point as to  
8 whether one would do traditional angiography in  
9 probably the medium and low risk patients. And  
10 again, we felt that the evidence is still somewhat  
11 clouded in those two categories. We put it out for  
12 public comment, we had lots of comment and that  
13 ultimately made us decide to continue as we're doing  
14 now, but keep open the possibility of revisiting this  
15 in the near to intermediate future. So we proposed  
16 CED but there were folks who were convinced that it's  
17 proven already so why would we want to withdraw it  
18 and go back to CED.

19 So that was an excellent case study in how  
20 difficult all of these topics we're talking about are  
21 in terms of addressing them.

22 DR. TUNIS: So, can I just comment on  
23 that? Because Barry, if you were going to do CT  
24 angiography for intermediate risk patients over  
25 again, it seems to me the only thing that would work

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1 is because the horse was already out of the barn  
2 after all of the local folks had adopted the ACC/ACR  
3 policy, you would have had to start, you know, much  
4 earlier, open a national coverage decision  
5 potentially right around the time you did the  
6 original MedCAC meeting instead of waiting a year and  
7 a half, or even possibly before that. You know, open  
8 a national coverage decision before all the  
9 contractors had already sort of performed a fait  
10 accompli.

11 And I'm again just thinking how would you  
12 do it differently. Well, if you opened that coverage  
13 decision proposed CED, you would have to be prepared  
14 then to say, well, CED is going to be attached to a  
15 requirement for a large simple randomized trial  
16 showing impact on outcomes unless you're willing to  
17 do a registry, and I didn't get any sense that the  
18 coverage staff was that interested in a registry.

19 Then you would actually have to have some  
20 infrastructure and funding to allow you to do a  
21 \$20 million prospective study.

22 And maybe that's not the way to get it  
23 done but the point is, it's a great case study to  
24 say, well, if we want to prevent that from happening  
25 in the future, first we have to make the decision

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1 what kind of a study is adequate to demonstrate  
2 diagnostic utility in that particular case. So does  
3 it need to be a randomized trial, does it need major  
4 adverse cardiac events, what's the proper trial? Our  
5 friends from NHLBI could probably help us with that,  
6 I'm sure they have opinions on that. So you would  
7 have to decide that, and then you would have to jump  
8 on it early on and actually find out where there's  
9 infrastructure to enroll 15,000 patients fairly  
10 efficiently and follow them for two years if that's  
11 the design.

12 But those are the kinds of problems we're  
13 actually going to have to solve. Otherwise we're  
14 just going to keep chasing our tails for years and  
15 lament the fact that we never have evidence on  
16 technology.

17 DR. STRAUBE: And that gets us back, I  
18 think, to why do we have the gaps, and the second  
19 question I raised, how do we fill the gaps. I think  
20 we have to do that. You know, it's probably no  
21 surprise to a lot of people, but we're covering a lot  
22 of services, treatments, technologies, et cetera,  
23 which if we were starting from the beginning again,  
24 they may not well get covered today if they were  
25 brand new, we don't have strength of evidence there.

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1 So going forward, we should try to do that better.

2 DR. BILD: Could I make a comment on that?

3 DR. PEARSON: Sure, go ahead.

4 DR. BILD: That is a very interesting case

5 and one that NHLBI was involved with, and indeed, the

6 horse is out of the barn. However, that seems to be

7 also a very common development actually, especially

8 in cardiovascular imaging, that a new technique is

9 put out there and then gets widely adopted without

10 good evidence. So it, I just want to point out that

11 I don't think that that's the exception, it seems to

12 be actually a fairly common situation and one that we

13 haven't figured out exactly how to grapple with.

14 DR. PEARSON: I think we could populate

15 the Kentucky Derby with the horses that have gotten

16 out of the barn.

17 (Laughter.)

18 DR. PEARSON: The CMS staff works about

19 13-hour days and they never take breaks and so

20 there's not one on our agenda. I'm going to make a

21 command decision, especially since Blackberries are

22 not receiving in here and I'm sure many of you need

23 to get outside. Let's take a ten-minute break,

24 because at 10:30 we do want to start with the public

25 comments, we don't want to give short shrift to that

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1 phase of the day. So literally ten minutes from now  
2 at 10:30, please be back in and we'll start with  
3 public comments.

4 (Recess.)

5 DR. PEARSON: Thank you for coming back.  
6 We are glad to be able to welcome a list of  
7 prearranged public speakers, scheduled public  
8 speakers, and then there's been a list generated of  
9 open public speakers after that, each of them will  
10 have three minutes. The scheduled public speakers  
11 are given five minutes and I'm going to let Maria  
12 help us triage this process, but first up is Diane  
13 Smith. Please just introduce yourself briefly and  
14 then five minutes, there's a red blinking light up  
15 there that will tell you when to please wrap it up.

16 MS. SMITH: Yes, thank you so much. I  
17 really appreciate the opportunity to speak to this  
18 very important panel. I am not coming to represent  
19 any device or drug or anything like that, I am a  
20 geriatric nurse practitioner with 25 years experience  
21 in dealing with elderly patients, especially elderly  
22 patients with incontinence in nursing homes. I've  
23 been a nationally recognized expert in continence and  
24 actually served as a continence expert for Medicare  
25 on a previous MCAC committee.

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1 I just wanted to let you know that I  
2 submitted a very brief paper to you which is some  
3 description of clinical outcomes of my practice in  
4 Pennsylvania with one specific nursing home. We  
5 could not fund any large-scale study, but I wanted to  
6 let you know that at the last meeting in December at  
7 the NIH when they were looking at the prevention of  
8 urinary and fecal incontinence, there was really a  
9 dearth of evidence that showed that you could do  
10 anything for these older frail patients in nursing  
11 homes, and I wanted to show you that there is a lot  
12 you can do with very simple things like visiting the  
13 patient, examining the patient and coming to a  
14 diagnosis, and working with the doctor and with the  
15 nurses and the nursing assistants to come up with a  
16 team plan of care that actually helps reduce  
17 incontinence.  
18 Now this is actually federally mandated by  
19 F-Tag 315 and it is really important, that is a great  
20 F-Tag, that is so important because it really  
21 highlights this exact type of thing. Now there is a  
22 new emerging role of the geriatric nurse  
23 practitioner, adult nurse practitioner  
24 subspecializing in incontinence because we have heard  
25 you, that you are spending \$119 billion a year on the

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1 treatment of UTIs in the Medicare population and  
2 unfortunately because no one was helping the staff,  
3 nothing was happening in nursing homes, there was no  
4 change in the percentage of incontinence, which on  
5 average ranged 50 percent, but in many states is 98  
6 percent reported on the QI reporting.

7 Now the QI is a very methodical review of  
8 the problems of the patients in nursing homes that is  
9 federally mandated and is reported monthly, and I'm  
10 sure you get reports about that. I wanted to tell  
11 you that what happened was that we are consulted by  
12 the primary care provider, we go in and do exactly  
13 the evaluation that is required by the F-Tag, we look  
14 at the vagina, we look at the prostate, we look at  
15 constipation, we look at the drugs, we look at  
16 everything. We spend about an hour assessing the  
17 patient. We do very simple diagnostic studies like  
18 post-void residuals, or a simple cystometrogram that  
19 is really necessary in that patient. And then we do  
20 a lot of education, we teach doctors and nurses --

21 DR. PEARSON: Diane, I'm sorry, I know you  
22 only have a limited amount of time and I appreciate  
23 what you're saying is important.

24 MS. SMITH: Yes.

25 DR. PEARSON: Is there a way you can help



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1 frame it in terms of evidentiary priorities?

2 MS. SMITH: Yes. I wanted to tell you  
3 that the outcome of this ten-month review showed a  
4 significant reduction of incontinence of 24 percent,  
5 a percentage from, went down from 71.9 percent to  
6 47.8 percent, and as we speak, that percentage has  
7 gone down to 45 percent in that home. And also, we  
8 had a 90 percent reduction in UTIs in that home in  
9 that ten-month period. We also had a 29.5 percent  
10 reduction in the numbers of patients who did not have  
11 a plan of care.

12 So I just wanted to let you know that this  
13 role is emerging, it's something that we'd like to  
14 bring you more evidence about because we are actually  
15 through our societies going to try to have more  
16 discrete data for you, outcomes reporting on our  
17 clinical practice, and we'd like to partner with CMS  
18 to basically let you know that we do believe there  
19 are things that average clinicians can do to reduce  
20 some of these risk factors. Thank you so much.

21 DR. PEARSON: Thank you. Next is Cynthia  
22 Rice.

23 MS. RICE: Thank you. My name is Cynthia  
24 Rice and I'm with the Juvenile Diabetes Research  
25 Foundation. As you may know, JDRF is the world's

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1 largest charitable funder of type one diabetes  
2 research. This year we will fund about \$170 million  
3 in research around the world. We're an organization  
4 that was founded and is led and is funded by  
5 patients.  
6 One of the areas of research that we focus  
7 on is metabolic control, how do you improve metabolic  
8 control in patients with type one diabetes. And one  
9 of our areas of interest is continuous glucose  
10 monitoring, and ultimately an artificial pancreas  
11 which connects insulin delivery to continuous glucose  
12 monitoring.  
13 I'm here today, we submitted formal  
14 comments that I'm sure you all have in your packets  
15 so I'm just going to briefly summarize them, but  
16 we're here today to say that we applaud you including  
17 continuous glucose monitoring as a question as part  
18 of your list of evidentiary priorities. We're not  
19 here to argue that, you know, it should be an eight  
20 versus a two versus a five, but just simply that we  
21 think it should be on the list, and let me take a few  
22 minutes about why that is.  
23 There are very promising data on the use  
24 of CGM in children and working age adults who are  
25 undergoing intensive insulin therapy, lower A1c's,

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1 less hypo and hyperglycemia, but really there are no  
2 studies with significant enrollment of Medicare  
3 beneficiaries and this could have a significant  
4 impact on that population potentially as well. So I  
5 want you to know that we are committed at JDRF using  
6 the research funds that our families raised from  
7 their friends and neighbors to conduct independent  
8 randomized clinical trials for CGM. You know, we  
9 have one underway, we may conduct others, but I'm  
10 just here today to say, you know, we appreciate CMS  
11 putting us on the list, we think it belongs on the  
12 list, it's one of obviously many very important  
13 issues that you have on the list.  
14 And then just in closing, let me just say  
15 that my travel today was paid for by JDRF and as  
16 indicated in our written comments as well, JDRF is an  
17 independent organization. We do have some funds that  
18 come from various manufacturers that support our  
19 research, but not the work that I'm here talking  
20 about today. So thanks very much.  
21 DR. PEARSON: Thanks very much, and you  
22 helped me remember that I should have asked all the  
23 speakers to let us know if you're being paid, how  
24 you're being paid to attend the meeting, and if you  
25 have any financial involvement with manufacturers.

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1 Next is Teresa Lee.

2 MS. LEE: Good morning. My name is Teresa  
3 Lee and I'm here on behalf of AdvaMed, the Advanced  
4 Medical Technology Association. AdvaMed's member  
5 companies produce medical devices, diagnostic  
6 products, and health information systems that are  
7 transforming health care through earlier disease  
8 detection and less invasive procedures and more  
9 effective treatments. Our members range from the  
10 largest to the smallest of medical technology  
11 innovators.

12 Thank you for holding this second MedCAC  
13 meeting and for soliciting public comment on priority  
14 areas for generating evidence that would have an  
15 impact on Medicare's beneficiaries. AdvaMed believes  
16 that generating evidence to inform physician-patient  
17 decision-making is an important matter. While CMS  
18 considers evidence generation priorities that may be  
19 significant to improve health care for Medicare  
20 beneficiaries, the process employed needs to be  
21 conducted in an open and transparent manner.  
22 In this regard we have three areas of  
23 concern. First, the purpose of the initiative.  
24 Second, the process and framework for the initiative.  
25 And third, the content of the research questions.

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1 First, AdvaMed is concerned that the  
2 purpose of this initiative involving Medicare  
3 evidence priorities have not been made clear. As a  
4 starting point you stated that this list will be used  
5 to develop evidence for decision-makers, but the  
6 question is, how will CMS use this list and the  
7 potential research it may yield. As a representative  
8 of a broad range of medical device and diagnostic  
9 technology companies we understand the wide range and  
10 levels of evidence that are available regarding our  
11 products.

12 The discussion on CED, however, suggests  
13 that this list that you're developing today may be  
14 used for coverage, and we hope that by the end of the  
15 day there will be a crystal clear understanding of  
16 the purpose of the exercise. This not only would  
17 help the general public and stakeholders comment on  
18 the research areas and the questions identified, but  
19 also will help the members of the MedCAC in focusing  
20 your efforts to rank the questions and determine  
21 whether any questions or areas should be added or  
22 dropped.

23 For example, if these questions are to  
24 inform Medicare coverage decisions, it is unclear why  
25 the issue of cost effectiveness should be analyzed in

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1 any of the research questions. Appropriately, CMS  
2 does not consider cost or cost effectiveness in  
3 rendering coverage decisions. Therefore, if the  
4 purpose is to inform coverage decisions, cost  
5 effectiveness analysis should be irrelevant. Making  
6 the purpose of this initiative and the intended use  
7 of the priorities list perfectly clear will help to  
8 make CMS's ultimate end product more useful and we  
9 believe would also help to shape specific criteria  
10 for the MedCAC panel members in considering and  
11 developing the sequence in scoring those questions.  
12 Second, AdvaMed members have numerous  
13 questions about the process and overall framework  
14 used to develop the priorities. Will this subject be  
15 discussed again publicly or privately in another  
16 forum? When and how does the prioritization come to  
17 closure? What criteria or approach was employed  
18 during the prioritization process at the federal  
19 workshop held in February? What criteria are you  
20 suggesting that MedCAC members use to develop  
21 priorities today? What are the next steps following  
22 today's MedCAC meeting?  
23 We recommend treating the MedCAC's advice  
24 from this meeting in the same manner that CMS treats  
25 MedCAC advice on topics related to the national

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1 coverage determination process. We hope to see  
2 posted on CMS's web site a proposed list of evidence  
3 priorities and a full description of the intended use  
4 of those priorities with a public comment period.  
5 Given the large number of clinically important and  
6 substantive research questions at issue today, an  
7 extended comment period, for example 60 to 90 days,  
8 would be appropriate. Once finalized, what will be  
9 the process for updating the list, given that  
10 evidence generation is ongoing with various studies  
11 and clinical trials that may be conducted in the  
12 months and years to come? We urge CMS to clarify  
13 these process and framework questions.  
14 Third, the content of the research areas  
15 in question is critical, and as the MedCAC and CMS  
16 develops these evidence priorities we urge an  
17 emphasis not just on specific technologies or  
18 services, but rather on patient-focused innovations  
19 and healthcare system delivery and management that  
20 will improve health for the largest number of  
21 beneficiaries. Such innovations hold the greatest  
22 opportunity for both improving quality of patient  
23 care and reducing costs, and thus should be the  
24 highest priority for evidence generation.  
25 There are studies that have been performed

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1 on healthcare system delivery and management  
2 enhancements that would address some of these issues  
3 and they point to clear opportunities in this area.  
4 For example, a study by Johns Hopkins University on  
5 improved daily ICU team communication involved  
6 setting daily patient-specific goals and regular  
7 communication among ICU staff using a form to clarify  
8 the care plan. This healthcare delivery innovation  
9 yielded increased understanding of the care goals for  
10 each patient and reduced the mean likely stay for ICU  
11 patients by 50 percent.

12 We applaud AHRQ's work to fund patient  
13 safety and quality improvement projects that get at  
14 these kinds of healthcare delivery improvements but  
15 we believe we have only scratched the surface in this  
16 area.

17 In a similar vein, AdvaMed is pleased to  
18 see that there are a number of research questions  
19 under the category healthcare policies that would  
20 evaluate topics that involve health systems and  
21 healthcare delivery. Disease management and topics  
22 that involve health benefit design are two such  
23 research areas that are of particular importance to  
24 the Medicare program and its beneficiaries.

25 Notwithstanding, we have a few concerns about the



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1 content of the research questions provided to date.

2 DR. PEARSON: Teresa, I'm sorry to  
3 interrupt, but could you please wrap up?

4 MS. LEE: Sure. Some of the research  
5 questions appear to assume that patients currently  
6 have access to services that should be limited in  
7 some way. We believe a balanced approach with an  
8 objective toward appropriate utilization would be  
9 appropriate. In addition, we urge the MedCAC to  
10 consult with physician specialty societies and  
11 patient advocacy groups to enhance the role of their  
12 credibility in the priority areas.

13 In addition, we note that there seem to be  
14 several undefined terms in the priority list,  
15 including the terms comparative effectiveness and  
16 cost effectiveness, and it's not clear whether those  
17 terms actually refer only to clinical or to both  
18 clinical and cost effectiveness.

19 DR. PEARSON: Thank you. Just to be fair  
20 to other speakers, we're going to ask you to be  
21 finished. Thank you.

22 MS. LEE: Thank you.

23 DR. PEARSON: Joseph Burkholder.

24 MR. BURKHOLDER: Actually it's Randy  
25 Burkholder, and I am pleased to be here on behalf of

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1 the Pharmaceutical Research and Manufacturers of  
2 America, and I appreciate, we appreciate the  
3 opportunity to address the MedCAC committee on the  
4 topic of evidence priorities for Medicare  
5 beneficiaries. We also submitted formal comments to  
6 the MedCAC and I wanted to focus on just a couple of  
7 key points that we made within those comments.  
8 Those relate to the three basic points,  
9 the importance of defining a clear purpose and  
10 intention for the priority list, the importance of a  
11 comprehensive perspective as MedCAC addresses this  
12 issue, and the steps that could be taken to ensure  
13 full openness and transparency of this process.  
14 Before I turn to each one of those, I want  
15 to turn back briefly to Dr. Straube's opening  
16 comments and just recognize the important goal he  
17 articulated at the beginning, of ensuring that every  
18 patient receives the right treatment every time at  
19 the right time. That is the goal that we strongly  
20 support, and I assume everyone in this room strongly  
21 supports. We strongly support the kinds of  
22 collaborative partnerships that Dr. Straube  
23 identified as an important part of achieving that  
24 goal.  
25 At the same time, I think for all of us to

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1 come together to work for common goals, those goals  
2 need to be clear. We had some concerns coming into  
3 the meeting today that while CMS had stated goals,  
4 those goals, there may still be room for confusion  
5 around those goals, I think particularly around the  
6 ways that MedCAC, the description of the meeting on  
7 the MedCAC coverage page had changed over time. And  
8 I guess I'm concerned today that probably there is  
9 less clarity and not more clarity around the exact  
10 goals and purpose as a result of the discussion and  
11 the CMS statements thus far today. And I want to  
12 underscore what some of the earlier speakers said  
13 about the critical importance of ensuring that we all  
14 know what the goal is that you're working towards so  
15 that we can provide meaningful input and can be a  
16 meaningful participant in that process.  
17 And just a couple of examples, trying not  
18 to take up too much of my time, but to underscore why  
19 this is important, if our goal is hypothetically  
20 getting at waste in Medicare by addressing small area  
21 geographic variation, that would probably lead to one  
22 set of research priorities and, you know, one set of  
23 potential priorities and one set of priority evidence  
24 gaps. If our goal was to find better ways of closing  
25 the gaps that are there for Medicare beneficiaries,

00100

1 between high quality care and the care they actually  
2 receive, that would probably lead to a potentially  
3 slightly different list of research questions and  
4 priority evidence gaps. If our goal is to manage  
5 Medicare costs by managing the dissemination and  
6 access to medical technology or innovations or  
7 procedures, that will of course lead to another set  
8 of potential questions and research priorities, so we  
9 need to understand what the ultimate goal is and what  
10 CMS's intent is and how it hopes to use these  
11 priorities so that we can provide meaningful input.  
12 We believe it is very important to ensure  
13 that the central goal remains better healthcare  
14 quality and improved Medicare beneficiary outcomes,  
15 and we encourage CMS to make clear that goal. And  
16 based on that goal we believe that a comprehensive  
17 perspective is important, and considering the  
18 potential range of research questions and evidence,  
19 priorities within them. That range of potential  
20 research needs extends beyond the types of questions  
21 and the types of evidence that would typically be  
22 addressed in the Medicare coverage process and would  
23 extend to a number of other types of interventions  
24 that other speakers have identified around processes  
25 of care and care management and delivery, we believe

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1 all those are important and should be considered.  
2 We also think by bringing a wide range of  
3 perspectives together the MedCAC is well positioned  
4 to provide insight on that wide range of evidence  
5 needs that affect beneficiary health outcomes. And  
6 again, we think this broader scope is to some extent  
7 reflected in the priority list that was developed  
8 through the CMS and federal health agency workshop  
9 earlier in the year. These include questions on  
10 appropriate use, underuse, nonadherence to prudent  
11 therapies, care management approaches for patients  
12 with comorbidities critically important to the  
13 Medicare population, adoption of clinical practice  
14 guidelines and disease management programs, just to  
15 list a few. We think that broader scope of questions  
16 merits careful consideration and we support their  
17 inclusion in the list to be considered by MedCAC.  
18 Finally, briefly on openness and  
19 transparency, clearly it's essential to the process.  
20 I will briefly note just a couple of points, thank  
21 you. And you know, we appreciate the steps that CMS  
22 has taken, including holding these meetings to  
23 provide openness and transparency in this process.  
24 Regarding the list before MedCAC today, we  
25 appreciate clearly the time and considerable effort

00102

1 that went into developing that list. The process  
2 unfortunately was not an open and transparent one  
3 that went into that, so we would recommend that CMS  
4 provide background minutes, transcript, what have  
5 you, on how this list was developed, so that  
6 stakeholders know what went into the questions that  
7 were decided on and what those scores actually mean  
8 in the current list.

9 DR. PEARSON: Randy, can I ask you to wrap  
10 up your comments?

11 MR. BURKHOLDER: Okay, the last point  
12 quickly. The other critical point on transparency, I  
13 think, relates to understanding the rationale for the  
14 priorities that are set and we strongly encourage CMS  
15 and MedCAC as they set priorities to make clear the  
16 rationale for their decisions. We think that's  
17 essential to good process and is consistent with the  
18 recommendations made by the Institute of Medicine in  
19 1992 where they recommended about priority setting in  
20 health care that the rationale be made explicit so  
21 that people can trace backwards for results to inputs  
22 and so satisfy themselves that the process was fair.

23 DR. PEARSON: Thanks. We're going to have  
24 to ask you --

25 MR. BURKHOLDER: I suspect my time is up?

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1 DR. PEARSON: Yeah, it is, thank you.

2 MR. BURKHOLDER: I will conclude by saying

3 I conclude, and thank you.

4 DR. PEARSON: And next is Joshua Beckman,

5 also known as Randy.

6 (Laughter.)

7 I'm kidding.

8 DR. BECKMAN: My name is Josh Beckman and

9 I'm coming to you today as a representative of the

10 PAD Coalition, and I want to thank you for the

11 opportunity to present our views on the evidentiary

12 priorities. The PAD Coalition under the auspices of

13 the Vascular Disease Foundation represents 71

14 different health organizations, health professional

15 societies and governmental organizations, including

16 the NHLBI as the founders of the PAD Coalition, the

17 Office of Public Health and Science, the Centers for

18 Disease Control, and the Indian Health Service. In

19 fact today, I'm here to speak to you on behalf of

20 more than a million healthcare providers.

21 We were gratified to see that among the

22 evidentiary priorities there were two that recognized

23 the importance of peripheral arterial disease, the

24 first question being asked, does routine screening

25 for PAD improve functional status and/or quality of

00104

1 life, and then the second one was, does screening for  
2 atherosclerosis improve outcomes and is it cost  
3 effective?

4 We would like to urge the committee to  
5 refocus those guidelines because we think they're a  
6 bit misplaced. As a little bit of background,  
7 everybody should recognize that there are eight to  
8 ten million Americans who have peripheral arterial  
9 disease, and the best estimates suggest that one out  
10 of five men and one out of six women in the Medicare  
11 population has this disease. This is not a rare  
12 disease, this is a morbid disease, it's a common  
13 problem and it is everywhere. If there are 16  
14 million Americans who have coronary heart disease and  
15 five million Americans who've had stroke, there are  
16 about ten million Americans who have PAD, and this  
17 number is only going to increase as the population  
18 ages, and the frequency of comorbidities like  
19 diabetes increases as well.

20 Now we would suggest that the screening  
21 for functional outcomes is probably a bit misplaced,  
22 because screening implies that a patient is  
23 asymptomatic; otherwise it wouldn't be screening. We  
24 find it difficult to understand how you can screen  
25 for an asymptomatic disease with the goal of making



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1 someone feel better. In fact, what we're worried  
2 about in truth is that the patients who have symptoms  
3 for arterial disease get lots of treatment now  
4 appropriately. Their critical limb ischemia has been  
5 treated for many, many years by vascular surgeons and  
6 with the new availability of interventions, many of  
7 the specialties who wrote guidelines participate in  
8 the care of patients with symptoms.  
9 What we worry about is the incredible  
10 burden of morbidity and mortality. In fact, patients  
11 who have peripheral arterial disease have an  
12 approximate 15 to 30 percent mortality rate by five  
13 years. The biggest problem that we see is that half  
14 the patients with PAD have no symptoms at all, yet  
15 they have the same death rate. They have no idea  
16 that they're walking around with a time bomb. The  
17 guidelines for the management of these patients are  
18 well set, they have been written by all the major  
19 stakeholders and then endorsed by the rest.  
20 There is no question as to what we should  
21 do for these patients nor how we should find these  
22 patients. We should find these patients with an  
23 ankle-brachial index. The question is not whether or  
24 not this technology works, the question is whether  
25 this technology is applied to the appropriate

00106

1 populations, and in our estimation it is not.  
2 I would suggest that our goal be not the  
3 screening of asymptomatic patients to try to make  
4 them feel better, but the use of a noninvasive test  
5 like the ankle-brachial index as a diagnostic  
6 procedure to find these patients. I can tell you on  
7 the basis of consecutive patient studies in thousands  
8 of patients who is going to have this disease and in  
9 what proportion. I can tell you with randomized  
10 control trial data that if we apply the correct  
11 medical therapies that we can save lives, reduce  
12 heart attack and stroke. I can tell you that when we  
13 find these patients we can make them better.  
14 And the link that is missing, and when we  
15 talk about small gaps, here is the smallest of the  
16 gaps. The one piece of evidence that's missing is  
17 the stem to stern, finding the patient and then  
18 treating them through the end. But I can tell you  
19 that there is no doubt about any of the middle steps.  
20 We can find these patients easily, we know where they  
21 are, we know who they are. We know that when we find  
22 them, they have incredibly high rates of heart  
23 attack, stroke and death. And we know that when we  
24 treat them with medical therapies that are well  
25 proved in large randomized control trials, that we

00107

1 can reduce the rates of these events. The only thing  
2 we don't have is the stem to stern.  
3 And so I would ask that we refocus our  
4 evidentiary priorities so that we ask the question,  
5 does the use of routine screening, ABI, save lives?  
6 Does it reduce major cardiovascular events? This is  
7 the one group of patients with atherosclerosis that  
8 get short shrift and it's the one group in whom we  
9 can make a tremendous difference with well proved  
10 therapies already available.

11 I want to thank you very much for the  
12 opportunity to present our views, and good luck with  
13 the rest of the day.

14 DR. PEARSON: Thank you. The last of the  
15 scheduled speakers is William Weintraub.

16 DR. WEINTRAUB: Good morning. I thank you  
17 for the opportunity to present the views of the  
18 American Heart Association and the American Stroke  
19 Association. I'm William Weintraub, I am chair of  
20 cardiology at Christiana Care in Delaware and  
21 director of the Christiana Care Center for Outcomes  
22 Research. I'm also a member of the steering  
23 committee of the American Heart Association's quality  
24 of care and outcomes research interdisciplinary  
25 working group. Neither the association nor I

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1 received funding to participate in today's meeting  
2 and I have no relevant conflicts of interest.  
3 The American Heart Association appreciates  
4 the work the committee is doing here today.  
5 Decisions regarding medical treatment and services  
6 should be based on strong scientific evidence. That  
7 is why CMS's recent efforts to identify research gaps  
8 is so very important. Encouraging research on these  
9 priorities is the key to better treatment decisions  
10 as well as determining what services Medicare should  
11 cover.  
12 Last October I spoke before this committee  
13 and urged you to focus on cardiovascular disease and  
14 stroke, because they represent the biggest burden to  
15 Medicare beneficiaries, the biggest burdens in health  
16 care in our society. We are pleased that so many of  
17 the topics generated at the recent federal  
18 evidentiary priorities workshop addressed issues  
19 specific to cardiovascular disease and stroke.  
20 Additional research on virtually any of these topics  
21 would be beneficial since they address public health,  
22 prevention of disease, and care for the elderly, all  
23 areas of great concern to the American Heart  
24 Association. However, there are a few research  
25 questions that stand out. I would like to briefly

00109

1 highlight a few we believe should be a high priority.  
2 One, how cost effective is CT angiography?  
3 The burden of coronary artery disease is immense, it  
4 caused 20 percent of deaths in 2004. Accurate  
5 diagnosis is essential to effective treatment and  
6 increasingly to prevention. CT including CT  
7 angiography has undergone an accelerated progression  
8 in imaging capabilities over the past decade. As a  
9 result of this rapid development, the diagnostic  
10 capabilities of the technique have exceeded the  
11 critical evaluation of clinical application. As per  
12 the discussion earlier this morning, there are  
13 insufficient data to provide optimal guidance about  
14 the application of this promising but expensive  
15 technology, particularly for patients who are at low  
16 and intermediate risk for obstructive coronary artery  
17 disease. Further study that links proof of concept  
18 of CTA to improved clinical outcomes is necessary.  
19 Two, is there overuse of coronary artery  
20 angioplasty, PCI and stenting, as opposed to medical  
21 therapy? In 2005 an estimated 1.2 million inpatient  
22 percutaneous coronary interventions were performed in  
23 the United States alone. These procedures, however,  
24 carried fine risks and their long-term benefits are  
25 incompletely defined. Similar advances in medical

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1 therapy for coronary artery disease have occurred.  
2 Drugs can be used to prevent, treat and perhaps  
3 reverse coronary atherosclerosis. However, important  
4 questions remain pertaining to clinical and cost  
5 effectiveness that remain to be answered.  
6 Three, comparative effect of the studies  
7 of treatment of carotid artery disease. In recent  
8 years stenting has become an increasingly common  
9 treatment for carotid artery stenosis, particularly  
10 in patients at high risk for carotid endarterectomy  
11 surgery. However, sufficient clinical evidence that  
12 compares stenting, endarterectomy and medical therapy  
13 is lacking. The lack of data is evident in the  
14 disagreement among providers over the role of carotid  
15 artery stenting in certain patient populations. In  
16 order to compare carotid artery stenting,  
17 endarterectomy and medical therapy, well designed  
18 controlled randomized trials are needed.  
19 Fourth, comparative effectiveness of  
20 different treatments for acute stroke. Stroke  
21 affects 780,000 Americans annually, it is the third  
22 leading cause of death, it is one of the leading  
23 causes of disability. Intravenous CPA is currently  
24 the only FDA-approved reperfusion treatment for  
25 selected patients with acute ischemic stroke. The

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1 FDA has also approved endovascular devices for  
2 removal of clots from brain arteries in patients with  
3 ischemic stroke. However, because of a lack of  
4 comparative data, these devices are approved as tools  
5 to accomplish the stated purpose but not as a  
6 treatment strategy. The lack of direct comparative  
7 efficacy data for these different approaches has left  
8 providers without critical information they need when  
9 considering treatment strategies. High quality data  
10 would allow for the rational choice of an appropriate  
11 intervention for individual patients and the  
12 avoidance of interventions that may be of little  
13 value.

14 And finally, five, the screening for  
15 atherosclerosis, or atherosclerotic disease improve  
16 outcomes, is it cost effective, per the previous  
17 speaker. The committee should revise this question  
18 to address a key research need for atherosclerotic  
19 disease, the use of the ankle-brachial index  
20 screening to identify patients with peripheral  
21 arterial disease. As a physician I can tell you that  
22 we typically screen patients for high blood pressure,  
23 cholesterol and diabetes, but screening for PAD has  
24 not received as much attention. We would like to  
25 increase the focus on lower extremity PAD because it

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1 is a common syndrome that affects a large population  
2 and patients with PAD are at increased risk for heart  
3 attack and stroke.  
4 Because PAD can be treated, early  
5 identification of patients is key, as per the  
6 previous speaker's comments. Upon diagnosis,  
7 therapeutic interventions known to diminish increased  
8 risk of heart attack and stroke may be offered before  
9 costly cardiovascular events. The committee should  
10 give high priority to an evaluation of the impact of  
11 ABI screening on morbidity and mortality.  
12 Thus in conclusion, in closing I would  
13 like to thank you again for the opportunity to  
14 present the views of the American Heart Association  
15 at this meeting and to reiterate our support of your  
16 efforts to identify research priorities for Medicare.  
17 I will be available to the panel for questions during  
18 the question and answer period. Thank you very much.  
19 DR. PEARSON: Thank you. All right,  
20 thanks to all the scheduled public commenters. We  
21 now have a list of four open public speakers who had  
22 signed up and we would like to, again, try to keep it  
23 to three minutes, please. We're going to start with  
24 James Min. Again, please introduce yourself, your  
25 funding for travel to this meeting, and any



00113

1 relationship with manufacturers. Thank you.  
2 DR. MIN: Thank you for having me. My  
3 name is James Min, I'm a cardiologist, a clinical  
4 cardiologist and academic researcher at Cornell  
5 Medical College, New York Presbyterian Hospital. I  
6 also come today as a, I sit on the board of directors  
7 for the Society of Cardiovascular CT, and the SCCT  
8 paid for my way here.  
9 I listened with interest to the comments  
10 this morning of the panel and I applaud the MedCAC  
11 committee because I think that you guys have a very,  
12 very difficult job. And I also agree with you that  
13 when the national coverage announcement for coronary  
14 CT angiography was released, the horse was out of the  
15 barn, and I will also agree with the fact that it is  
16 an interesting case in point.  
17 But the one thing that I want to point out  
18 is that the time that the MedCAC original analysis  
19 was performed to the time of its release represented  
20 a big transition period of CT angiography, namely the  
21 transition between 16 to 64 slices. So, it wasn't  
22 until 64-slice CT came out that we see the really  
23 rapid adoption of the technology by clinical  
24 practitioners. As we all know, the recent national  
25 coverage analysis and national coverage determination

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1 by Medicare was released, and in that document when  
2 they released it they said that they still believe  
3 that the evidence remains insufficient for CT  
4 angiography.

5 I would just like to pose a question to  
6 the panel which I think from listening to it this  
7 morning was not well answered, which is, what is the  
8 level of evidence that is sufficient to prove out the  
9 clinical and cost utility of coronary CT angiography?

10 Because I would argue to you that it's not the same  
11 for each and every item, and for a diagnostic test  
12 versus a therapeutic intervention it's very  
13 different. So to me the most important aspect of the  
14 diagnostic test is that it should be diagnostically  
15 accurate. And I think that we can make no bones  
16 about it, there is no better noninvasive diagnostic  
17 test for the detection and exclusion of obstructive  
18 coronary diseases.

19 The second thing I think that a  
20 noninvasive test should do is risk-stratify. It  
21 should predict those patients who are at risk for  
22 adverse clinical cardiovascular events.  
23 And then the third thing that I think it  
24 should do, it should successfully impact medical  
25 decision-making or treatment stratifying. On this

00115

1 vein I think we have a lot of good tests in  
2 cardiology, stress echo, nuclear stress testing and  
3 CT, and I think in this budget-neutral environment we  
4 need to look at it not only in terms of clinical  
5 efficacy but also cost efficacy. On that vein we  
6 have at least five published studies, or at least  
7 five published studies or in-press studies, and at  
8 least 30 abstracts that were all peer-reviewed, that  
9 demonstrate that CT angiography can be cost efficient  
10 in at least two scenarios.

11 First, in those patients who are being  
12 referred for invasive angiography, CT angiography can  
13 act as an efficient and cost efficient gatekeeper to  
14 prevent people from having to undergo an invasive  
15 procedure. Secondly, CT angiography can act as a  
16 successful substitute to the alternative standard of  
17 care, which is nuclear stress testing, and it can do  
18 so in a clinically efficient as well as cost  
19 efficient manner.

20 Obviously we need to do more studies at  
21 this point in time. We are currently working on a  
22 decision analytic model with very good data and we're  
23 currently trying to design a randomized control trial  
24 to answer the questions that the MedCAC committee  
25 members posed.

00116

1 DR. PEARSON: Thank you, James.

2 DR. MIN: I would just like to invite,

3 SCCT would like to invite the MedCAC as well as CMS

4 to participate with us in terms of designing future

5 studies that can help answer these questions. Thank

6 you.

7 DR. PEARSON: Thank you. David Smith, if

8 you're here? He's out having that mint julep, I

9 think.

10 It's either Jean Gagnon, or more likely

11 Jean Gagnon. Also not here.

12 DR. GAGNON: No, I'm here, but my comments

13 were covered.

14 DR. PEARSON: Oh, okay. Leticia DeWilde.

15 MS. DEWILDE: No comments.

16 DR. PEARSON: No comment, all right.

17 Since we have some free time and there's

18 going to be a chance for the panel to ask questions

19 of the presenters, if there's anybody else in the

20 public who would like to have a comment now, there is

21 some time to do so. Speak now or forever hold your

22 peace. Please introduce yourself.

23 MS. STINCHCOMB: My name is Stephanie

24 Stinchcomb, I represent the American Urological

25 Association, and you have a couple of our near and

00117

1 dear topics on your priority list of BPH and  
2 incontinence. The AUA works very diligently to make  
3 sure that we have practice guidelines and they are  
4 being revised at this time, so I would ask that you  
5 would definitely take advantage of having the  
6 specialty societies help you with your  
7 determinations. That's my comment.

8 DR. PEARSON: Thank you. Yes. If anybody  
9 else is interested please come have a seat up here.  
10 Yes.

11 MS. DEVOTO: This is Emily DeVoto, I'm  
12 representing the National Breast Cancer Coalition. I  
13 agree with some of the previous presenters that we  
14 would very much like to see the process clarified,  
15 the goals clarified, it would be very helpful to us  
16 in providing meaningful comments on this very  
17 important process.

18 And yes, one other point. I was wondering  
19 if the panel is going to be required to formally  
20 answer the comments that have been presented today.

21 DR. PEARSON: No, there is no process for  
22 us to answer the comments. We certainly are welcome  
23 to, but we don't have any kind of formal feedback on  
24 them. Yes.

25 MS. STRICKLAND-SMITH: Hi. I'm Adrienne

00118

1 Strickland-Smith and I represent Diversified Clinical  
2 Services. We have a hyperbaric medicine wound  
3 healing company that is actually nationally  
4 represented across approximately 300 centers. We  
5 have huge databases out there in the population that  
6 can be looked at for wound healing and just, the  
7 comment is that there is funding needs to look at the  
8 variety of questions that need to be answered in the  
9 wound healing arena, and we would like to partner  
10 with CMS in order to identify appropriate funding  
11 sources to answer the questions utilizing the  
12 database, and underscore the fact that utilizing huge  
13 databases with observational data may answer many of  
14 the questions that RCTs just won't answer, just to  
15 emphasize some of the comments that the panel made.  
16 Thank you.

17 DR. PEARSON: All right. We have a time  
18 period now in which we can ask questions of the  
19 presenters or make comments, both. Mark.

20 DR. HLATKY: I guess I mostly have a  
21 comment that was spurred by some things that we've  
22 heard from the audience, from the public presenters,  
23 and it's the issue about cost effectiveness. And  
24 this is something I have done myself in some cost  
25 effectiveness studies and I also know that this is

00119

1 not something that's used for coverage decisions.

2 And one of the questions is is this relevant at all

3 to our discussions today, and I just wanted to say a

4 word in favor of it to say that cost effectiveness to

5 my mind, is actually mostly about effectiveness, and

6 the way I look at it is it's really saying is the

7 effectiveness that you see, that you can measure, is

8 that meaningful in some way.

9 It's really saying is the degree of change

10 in effectiveness that you're observing a meaningful

11 thing that would be something that people are

12 interested in getting. And that to me is the value

13 of it and it's not so much about dollars. So I think

14 there's been some concerns said about cost

15 effectiveness and yes, in a formal way it's not to be

16 considered, but I think it's very useful information

17 for people to have available and certainly should be

18 discussed, because I do believe it's mostly about the

19 effectiveness and much less about the cost.

20 DR. PEARSON: Richard.

21 DR. WHITE: Yes. I have a question I

22 would like to address to Dr. Weintraub, and in

23 fairness allow Dr. Beckman to respond also. Clearly

24 the issue of ABI is an important one, but I think the

25 point that I think Josh made strongly is that its

00120

1 perhaps real advantage is to identify people who may  
2 be at risk for cardiovascular morbidity, mortality  
3 and stroke. If one was trying to identify those  
4 patients, what would be, and your only purpose was  
5 trying to identify patients who are at risk for  
6 cardiovascular events and/or stroke, not peripheral  
7 artery disease, what would be the, if you had one  
8 test, what would be the best diagnostic test? Would  
9 it be ABI or would it be some other test to  
10 specifically look at cardiovascular disease and/or  
11 stroke, as opposed to peripheral artery disease?

12 DR. WEINTRAUB: Well, I think to some  
13 extent the question is unfair because --

14 DR. WHITE: Well, it was meant to be  
15 unfair.

16 DR. WEINTRAUB: All right. But I was  
17 going to preface that and then I'm going to answer  
18 your question. If you ask me the one thing, if I  
19 only have one thing, it would be blood pressure, but  
20 I do think it's a little bit unfair.

21 DR. WHITE: And I do understand there's  
22 some controversy about it.

23 DR. BECKMAN: So, of course I have to  
24 disagree with that comment. It's quite obvious to me  
25 that inherent within your question is a mild



00121

1 misunderstanding of what the ABI does. The ABI is  
2 not a test for a risk factor for atherosclerosis, it  
3 is a test for the diagnosis of atherosclerosis, and  
4 so it is the same as, the diagnosis of peripheral  
5 arterial disease is the same in risk as the diagnosis  
6 of a heart attack, as the diagnosis of a stroke, and  
7 you don't convert someone from walking well, no risk  
8 factors, to walking well with risk factors. You  
9 convert someone from previously unknown to have  
10 disease to frankly having disease.  
11 We are now easily telling them that this  
12 is not a risk factor for a problem, you have the  
13 problem. And so I would disagree because although  
14 hypertension is ripe and common in the population, it  
15 is not a state of events where 25 percent of the  
16 people will be dead in five years. If you leave the  
17 hospital because of a PAD admission, you have a  
18 higher rate of heart attack and death in the next  
19 year than if you leave the hospital with a heart  
20 attack diagnosis. These people are incredibly ill  
21 and they have the disease, so although we call it  
22 screening because we are finding it, the truth is we  
23 are actually diagnosing it. And you don't have to do  
24 anything else beyond that point to know that that  
25 patient needs a statin, an ACE inhibitor and an

00122

1 antiplatelet agent to save their lives.

2 So my answer is, one test, the ABI.

3 Easily done, done commonly for late stage symptoms

4 which represent a minority of the patients, but not

5 for the cardiovascular morbidity and mortality which

6 are found in all the patients.

7 DR. WHITE: Thank you. I expected two

8 separate answers.

9 MS. FRIED: So is your recommendation

10 since it's a diagnostic test, it's not a screening

11 test, that everybody have it, and where is the

12 glitch? Is the glitch in the research or is the

13 glitch in coverage?

14 DR. BECKMAN: There are both in my

15 opinion. The glitch in the research is that we don't

16 have a, we don't have the ability to say that if we

17 screen for PAD like we do for hypertension and then

18 treat it, that there are event reductions. What we

19 have are studies that show if we screen it we can

20 find it, and find it pretty easily. And then we have

21 studies that show if you enroll patients in large

22 randomized clinical trials that if you treat them,

23 you reduce events. But there is no look for it,

24 treat it, reduction in events, that's the evidentiary

25 gap.

00123

1 Who would I like to look for it in? Well,  
2 I can tell you that in a large prospective  
3 accumulation of patients, consecutive accumulation of  
4 patients, 6,800 of them, 20 percent of men over 65  
5 and 16 percent of women over 65 had this disease. In  
6 a study done in the United States of 7,000  
7 consecutive patients where they looked at everybody  
8 over 70, and men and women between the ages of 50 and  
9 69 with a history of diabetes or smoking, 29 percent  
10 of those had PAD. As we look at other screening  
11 tests that we use commonly, colonoscopy, fecal occult  
12 blood testing, mammography, all of which have well  
13 demonstrated evidence bases, the frequency of a  
14 positive finding in those screening tests is about  
15 one percent, one-and-a-half percent at the highest.  
16 I can tell you in advance that if you screen patients  
17 in the United States that we can find this disease in  
18 one out of three.

19 MS. FRIED: Just to follow up, and I'm not  
20 trying to be flip at all, so really would it be going  
21 to Congress and saying this needs, because that's who  
22 decides whether there are certain preventative  
23 services?

24 DR. BECKMAN: Yes, I agree with you, that  
25 is another way in which we're trying to tackle this

00124

1 problem. But I think the biggest problem with this  
2 disease is that a lot of the information I've  
3 discussed today is a surprise, that people had no  
4 idea that there are ten million Americans, most of  
5 whom are in the Medicare population, who are at  
6 incredibly high risk for heart attack and stroke and  
7 death, and that despite this, despite the fact that  
8 more than half of them have no symptoms at all and  
9 they have no idea they have any disease or  
10 disability, we basically ignore them because we don't  
11 look for it, because we wait for the very late stages  
12 of symptomatic presentation to actually screen them  
13 and that's what's covered. One to two percent will  
14 get critical limb ischemia. A hundred percent are at  
15 risk of death.

16 DR. BUSH: I would like to make a comment  
17 on this as well because I support what you're saying  
18 and what Dr. Weintraub is saying. But just a little  
19 bit of education, and I think when you're talking  
20 about PAD and looking at ankle-brachial indices, it  
21 boils down to education and people realizing that  
22 diagnosing lower extremity disease, not only just  
23 diagnoses lower extremity disease, but it's a marker  
24 for systemic atherosclerosis, and that's what we're  
25 saying, is that vascular disease not only occurs in

00125

1 one vascular bed. But if you've got the presence of  
2 it in one vascular bed and it's easy to diagnose  
3 rather than getting a CT angio on everybody to look  
4 for coronary disease, then we can extrapolate and say  
5 that they have coronary disease if they have  
6 peripheral arterial disease.

7 I also want to make the point that it's  
8 not a huge expensive test, this is something that we  
9 teach the nurses to do in our office. They take the  
10 blood pressure in the arm, they take the pulse, and  
11 they take the blood pressure in the leg. So this is  
12 not something that I think a huge outlay of resources  
13 or huge coverage determination needs to be made, but  
14 I think a huge push for inexpensive, cheap, if  
15 anything it doesn't even add to the bottom line, ten  
16 seconds to do an additional test screening. So I  
17 appreciate your comments.

18 DR. PEARSON: I'm going to let Mark, but I  
19 have one question myself. Again, stepping back and  
20 considering the idea of an evidence gap, it involves  
21 many different moving pieces. One is the importance,  
22 and that can be defined in different ways, you know,  
23 disease burden, disability, cost, all these different  
24 ways. Then if it's important, why isn't there the  
25 right amount or type of research being done so that

00126

1 there's actually not a gap?  
2 So if we were the NHLBI where there's  
3 actually a formal institution that's supposed to be  
4 triaging research in this clinical domain, why aren't  
5 they listening to you? What are the barriers to the  
6 evidence being generated through the existing  
7 channels? We can talk about barriers for other types  
8 of clinical domains or issues, and there may be  
9 others who have a viewpoint on this, but from your  
10 perspective, why aren't you being heard by your  
11 clinical and academic colleagues?  
12 DR. BECKMAN: So, I would actually make  
13 the point that the NHLBI has been listening quite  
14 closely and putting its money where its mouth is.  
15 They have funded a series of RFAs for research into  
16 the treatment of these patients, they have funded  
17 training programs to make sure that there are enough  
18 internal medicine-based specialists who understand  
19 this disease process and who will be trained as  
20 clinician investigators to be able to carry out these  
21 studies, and they have actually funded many studies  
22 looking at peripheral vascular disease. What you're  
23 really asking me is why haven't they funded the  
24 single study of from discovery to end, and my guess  
25 would be that it's incredibly expensive, and if you

00127

1 have to make a priority list, it may not have made it  
2 among peer review.  
3 Now I also think that it's been poorly  
4 recognized over a time, the severity of peripheral  
5 arterial disease, its frequency and its outcomes.  
6 And so I know that in medical training, for example,  
7 vascular disease that is not in the heart is  
8 relatively ignored. And if you are an internal  
9 medicine trainee you hear very little about carotid  
10 disease, you hear very little about renal disease,  
11 renal arterial disease, and you hear very little  
12 about lower extremity atherosclerosis. In part  
13 that's a failing, but also in part it's a recognition  
14 that we are now only, that it is a recent concept  
15 that atherosclerosis is systemic. We all take it for  
16 granted now, but ten years ago we didn't and we were  
17 arguing about it.  
18 So now that we understand that  
19 atherosclerosis is systemic, we can look back at data  
20 from 1992 from Mike Crickey in San Diego and see that  
21 in asymptomatic patients over five years there's a 25  
22 percent mortality, and then we have to wonder why it  
23 took another 15 years to get a similar outcomes study  
24 to show that over six-and-a-half years there's a 28  
25 percent mortality in the same asymptomatic group. I

00128

1 would say we've moved very little, despite the fact  
2 that we're now beginning to all be on the same page.  
3 And I think the NHLBI has done a really  
4 good job at pushing this. Do I think they could do  
5 more? Absolutely, please do more.

6 (Laughter.)

7 But I don't think they should be blamed at  
8 all, they have actually been pushing this field quite  
9 nicely.

10 DR. PEARSON: And I certainly didn't mean  
11 to blame anybody, it's more for us the challenge of  
12 hearing the voices that are actually in the room and  
13 even our, you know, even our own prejudices and  
14 biases that we bring often mean that there are voices  
15 that aren't heard, people who don't have societies to  
16 back their area of interest or for which there's not,  
17 for a variety of reasons, enough research and funds  
18 to go into it. So again, I'm just helping open up  
19 the question of the gap, not just the importance, but  
20 the gap. Go ahead, Mark.

21 DR. HLATKY: I actually have a very  
22 specific question about this whole question about ABI  
23 and I want to make sure that I understand what you  
24 and Bill Weintraub are talking about when you talk  
25 about screening for this. Is this as was just



00129

1 described, you know, having someone in the office  
2 take a blood pressure cuff off the wall and measure  
3 ABI as part of the visit, or are you talking about  
4 referring people to a vascular lab for a separate  
5 charged procedure and having measurements made in a  
6 vascular lab, which seems to me to be a different  
7 thing. So when you are talking about ABI screening,  
8 which of these things are you talking about?  
9 DR. BECKMAN: I personally am talking  
10 about -- it's not actually where the test is done,  
11 but the mechanism of the test so that it meets the  
12 requirements that are currently paid for for patients  
13 who have symptoms, which is the test with a Doppler  
14 wave printout. I don't care if it's done in a  
15 vascular lab or it's done in an office that does it  
16 routinely, I'm not making that comment. Nor am I  
17 discussing specifically the method, but any method  
18 that conforms to currently reimbursed tests.  
19 I'm also, by the way, not saying that I  
20 think it should be done every visit every year. I  
21 think it should be done once in a lifetime, because  
22 it changes very slowly. And just like for AAA, which  
23 now receives coverage, I think that we can make a  
24 huge impact in the welcome to Medicare physical, for  
25 example.

00130

1 DR. HLATKY: Okay. You're talking about,  
2 then, specifically something that is charged  
3 separately for as a diagnostic procedure, not  
4 something that I can take my blood pressure cuff off  
5 the wall and measure it, you're talking about a  
6 diagnostic code.

7 DR. BECKMAN: So if I lived in a perfect  
8 world, you're absolutely right, you could just take  
9 it off the wall. And I published a study using  
10 automated blood pressure cuffs and compared them to  
11 the Doppler ultrasound to show that they were equally  
12 as good. And when I go around and talk about PAD I  
13 ask people, if you don't have time to use a Doppler  
14 ultrasound, and one of the reasons that people don't  
15 do this test is because of time and money, I say  
16 fine. When the patient is lying down in the office  
17 getting their EKG, put on a blood pressure cuff on  
18 each limb and generate an ABI.

19 But we all know what happens. What's done  
20 in the office is what's reimbursed because that's  
21 where you are setting the priorities. You tell  
22 people what you want by paying for it. And so unless  
23 you pay for this test, it won't be done, as proved by  
24 the lack of continuous evaluations by investigators  
25 of primary care offices who participated in the large

00131

1 prospective evaluation studies. They don't do it  
2 because it takes time and they don't get paid for it.  
3 So if you want it done, you have to put your money  
4 where your mouth is, like we do for everything else.  
5 DR. GRANT: This is more of a comment but  
6 you can feel free to respond. It sounds like, and I  
7 profess, I am not very knowledgeable in the area, but  
8 it sounds like the circumstances you're describing  
9 are those in which there is relatively strong  
10 evidence for all the different pieces of the puzzle  
11 in the chain for the model that one would put  
12 together. So the question I raise, is there really  
13 necessarily a large gap here or is it, and maybe it  
14 already has been done, that the model -- in this case  
15 the chain of evidence hasn't been linked and examined  
16 with reasonable assumptions. And from what you're  
17 saying, and you're doing it reasonably compellingly,  
18 I'm not sure that the investment in a large study  
19 would necessarily, the value one would obtain in a  
20 very large expensive trial, and you can correct me if  
21 I'm wrong, I just think on the surface that's what I  
22 see.  
23 DR. BECKMAN: I think you're right. I  
24 think all pieces, I think to get from A to B, we've  
25 done every middle piece, we haven't done A to B. And

00132

1 in fact recent studies have shown that with the  
2 application of -- first, there are randomized trials  
3 which show that with each condition and each  
4 medication work. Secondly, there are studies looking  
5 back to 10 to 15 years with variable levels of  
6 medication use showing that as you add the number of  
7 appropriate medications, there are ever increasing  
8 reductions in adverse events.

9 My answer to you is we have been asked to  
10 prove that it goes from A to B because otherwise  
11 people will say how can you prove it works. Well,  
12 you know, my comeback is commonly a bit flip and I  
13 say I know that when you jump out of a plane you're  
14 going to die, and I know that parachutes save lives,  
15 but nobody's proved that point either. But that's  
16 what comes back to us as you can't support doing this  
17 without proof from start to end, which is why I think  
18 the evidentiary gap is tiny, although it's not going  
19 to be cheap.

20 DR. PEARSON: Bill, did you have --

21 DR. WEINTRAUB: Can I respond --

22 DR. PEARSON: Yes, please.

23 DR. WEINTRAUB: -- which I hope really  
24 gets at your question, because I think you are right  
25 that we don't need randomized trials about whether we

00133

1 should do this or not. But there are other kinds of  
2 studies that need to be done because why are we doing  
3 this, why is it being done routinely? Everybody  
4 knows that this is valuable, everybody knows that.  
5 So other kinds of studies are needed and there is an  
6 evidence gap about, just about how we go about this  
7 along the lines that Dr. Hlatky suggested, just  
8 what's the right kind of setting? We don't know, we  
9 just want to get it done.

10 So I think there are implementation  
11 studies that need to be done and we need to figure  
12 out the right way to pay for this, and we need to  
13 figure out as a society and especially for Medicare  
14 beneficiaries how we can get this done so that people  
15 will be screened properly and so we can save lives.

16 DR. PEARSON: Sean, you had a comment?

17 DR. TUNIS: Sort of a comment and it's not  
18 on PADs.

19 DR. BECKMAN: Can I sit?

20 DR. TUNIS: A comment I'm interested in,  
21 from Teresa Lee and Randy or Joseph Burkholder. So  
22 I'm going to take a quick crack at what I understand  
23 to be CMS's goal in trying to set these research  
24 priorities, and Barry, you're free to disavow that  
25 this is in fact your goal, but I'm going to preface

00134

1 it if, sort of if I were still here, this would be my  
2 goal. Which is, you know, basically every time CMS  
3 tries to do a national coverage decision they find  
4 the same thing, which is that the kind of evidence  
5 that they would like in an ideal world doesn't exist.  
6 And you know, whether it's looking at PET scans for  
7 oncology, whether it's looking for platelet-derived  
8 growth factors for wound healing, whether it's CT  
9 scans for intermediate risk, you know, patients at  
10 intermediate risk of coronary disease, it doesn't  
11 matter, it's always, you know, the conclusion is,  
12 boy, we wish there were better studies.  
13 So the point of this exercise in my view  
14 is, isn't there some systematic way that we could be  
15 proactive and, you know, and collaborating and  
16 identifying, you know, in advance, what can we do so  
17 that five years from now we're not still whining  
18 about the fact that we never have the evidence that  
19 we want to make these decisions. And presumably you  
20 want to do that in a systematic organized, you know,  
21 transparent repeatable way. So that would seem to me  
22 to be the goal of an exercise like this, which is,  
23 you know, there's no road map for how to do this so  
24 CMS has done the honorable thing of, you know, trying  
25 something and getting people to poke fun at them,

00135

1 which is always great entertainment and I love it  
2 myself.  
3 So I guess my question to Teresa and Randy  
4 would be, assuming that is the goal of this exercise,  
5 how would you recommend CMS go about accomplishing  
6 that?

7 MS. LEE: Hello again. I think that's a  
8 legitimate goal. I think that what we would like to  
9 see is a little more specific in terms of the down to  
10 basics, you know, what are the particular criteria  
11 you've been looking at. Because you've got such a  
12 long list of evidence priorities now in front of you  
13 and certainly it makes sense to try to identify those  
14 issues that are important to the Medicare program.  
15 But again, you know, if we could drill down to what  
16 does that mean.

17 I mean, are you interested specifically  
18 in, you know, CED, is that the purpose, trying to  
19 identify areas where you think that CED may be  
20 something that you might be interested in. And I  
21 think Dr. Straube pointed out that there is supposed  
22 to be some kind of agenda for coverage, but you know,  
23 to me it's still sort of not clear exactly what it is  
24 if it's not that. So just a little bit more  
25 definition, and I think that maybe that might help

00136

1 make the process for putting numbers by each of these  
2 research areas a little bit more clear.  
3 DR. STRAUBE: Let me jump in. Sean. I  
4 think you articulated it well, I thought I  
5 articulated that also at the beginning, and I thought  
6 we articulated it at the last meeting. This is a  
7 little like dealing with patients, some people need a  
8 little more hand holding to be reassured about  
9 whatever you're telling them which can be scary and  
10 frightening in terms of disease. But I think, not to  
11 be flip, truly this started off as I stated, a  
12 realization that we're frequently getting national  
13 coverage decisions that either we open up or more  
14 likely that others open up, ask us to open up and the  
15 gaps, as Sean articulated, are immense.  
16 And so this was an exercise to try to  
17 identify using broad stakeholder input, I would say  
18 arguably this is still the most transparent process  
19 I've seen in this country in terms of getting public  
20 input into decision-making, unlike where I came from  
21 in the private sector, which was much more secretive.  
22 So we've gone through a process, there's a  
23 list of things that the federal work panel and this  
24 MedCAC has come forward with as suggesting where some  
25 major gaps are. I think that the comments about can



00137

1 we make it more transparent, can we allay some of the  
2 fears that industry in particular seems to have about  
3 what our intent is, yes, we can. But we're here  
4 today to try to prioritize where those gaps may be,  
5 and Sean, I think Teresa, was trying to -- I'll even  
6 respond more to those in a separate comment, but is  
7 there something that AdvaMed or PhRMA can comment  
8 like the other commenters did in terms of are these  
9 the right gap areas, are there some that they missed,  
10 did they articulate the content in an indirect way.  
11 That would be the most helpful thing, and I think,  
12 Sean, that was what you were trying to get at perhaps  
13 too.

14 DR. TUNIS: Yes. I mean, that, and more  
15 generally I think, you know, assuming that the goal  
16 you just described is in fact the goal or the goal I  
17 described, you know, it's sort of come up with some  
18 more ideas and suggestions about how to achieve that  
19 goal, whether it's specific research questions or  
20 suggesting a different process by which those  
21 questions might be identified and prioritized.  
22 Because clearly this is an experimental effort and it  
23 can clearly be done better, and I think Randy, you  
24 and Teresa and the folks you work with might have a  
25 lot of good ideas about what's the best, most

00138

1 efficient way to do this. But I think what, you  
2 know, Barry and his colleagues are trying to do is  
3 pretty clear.

4 It's, you know, what studies can we start  
5 today, hopefully collaborating with NIH or the  
6 product industry that will make sure that, you know,  
7 the emerging technology of today is not the  
8 technology that five years from now we'll think is  
9 just another one that got out of the barn without the  
10 kind of evidence we would like.

11 MR. BURKHOLDER: I'll attempt to add  
12 something. And Barry, as one who needs lots of  
13 hand-holding, I do sincerely appreciate the openness  
14 and transparency you have provided in the process.  
15 You know, I guess, and not to be flip,  
16 Sean, but if that's the goal, it's a pretty  
17 straightforward one, why hasn't that been clearly  
18 articulated in writing by CMS? That's one thing that  
19 we look for in understanding where CMS is coming  
20 from, so looking at what are they saying on paper.  
21 And, you know, I appreciate the importance of what  
22 you're saying from the podium, Dr. Straube, although  
23 from the podium this morning we heard from CMS  
24 speakers information to support patient and physician  
25 decision-making on one end, all the way down to CED

00139

1 and coverage criteria on the other end. So even from  
2 the podium there's not that clarity there yet and  
3 it's not there on the MedCAC, CMS coverage page. You  
4 know, I think what you articulated as a goal maybe  
5 was a little closer to the early draft of that web  
6 page and a little further from the current draft.  
7 So I would say that would be step number one, if  
8 that's the goal, let's spell it out clearly.  
9 I mean, you know, I guess there are  
10 different approaches that one could take beyond that  
11 and say how do we start to get our hands around, how  
12 do we get the evidence that we would like at the  
13 right time. The answer to that question with respect  
14 to all the stakeholders you've brought around here  
15 today is going to be critically important, picking  
16 the right evidence at the right time for the right  
17 purpose. Now, the patient community and the provider  
18 community, and the researchers and the manufacturers,  
19 and the payers, all might have slightly different  
20 perspectives on that, but that would be the starting  
21 point. You know, I guess you could look back to  
22 Section 731 and see that there's a framework there  
23 for development of CMS guidance around these kinds of  
24 ideas, that might be one starting point.  
25 MS. LEE: I want to thank you too for

00140

1 holding these MedCAC meetings and I agree with you,  
2 it's by far much more transparent than a lot of  
3 processes that private payers may undergo in terms  
4 of, I don't know if it's priority setting or just  
5 decision-making. We do think that this is a great  
6 forum. You know, I'm still not a hundred percent  
7 clear on what's going to happen after this MedCAC  
8 meeting and as I mentioned in my remarks, it would be  
9 helpful to have something similar to what you have in  
10 the NCD process, which I think is extremely well  
11 done, to have, you know, the proposal that comes out  
12 of this process in terms of the rankings, post it on  
13 the CMS web site, allow one last shot for comments,  
14 maybe 60 to 90 days, you know.  
15 And the other question of course that I  
16 had was what happens after this, because I know that  
17 there was some discussion early on about updating the  
18 list, but I guess the question is how often does this  
19 get updated, how does it get updated, are you  
20 planning on having these MedCAC meetings periodically  
21 to update that list?  
22 DR. PEARSON: Yes, Nora.  
23 DR. JANJAN: What's striking me from these  
24 comments is the disconnect between the physician's  
25 office and the research, and guidelines that are

00141

1 developed from research. Taking the PAD example,  
2 taking the example of pain control during cancer  
3 treatment, I just reviewed a paper that demonstrated  
4 again that pain is poorly managed during cancer  
5 therapy, after 25 years of evidence, guidelines,  
6 everything else.  
7 You know, you talked about reimbursement  
8 for physician care. Well what about standards of  
9 care? That's our obligation as a physician, to  
10 evaluate that. For PAD, what's the big deal about  
11 taking blood pressures in the lower extremity? And  
12 from a pharmaceutical point of view, you want us to  
13 do that because then we prescribe something that gets  
14 to the patient that actually helps them. So I don't  
15 understand what the disconnect is between taking a  
16 few extra minutes caring for the patient, finding out  
17 what's happening to them, and fulfilling your  
18 obligation to discover a problem in order to relieve  
19 a symptom, and not doing it and having the patient  
20 walk out of your office with an unresolved problem or  
21 potential problem that's going to come to hurt them  
22 in a little bit.  
23 I think the medical community, there's  
24 plenty of paper out there telling us what to do and I  
25 don't understand why that's not getting done. None

00142

1 of us are perfect but on the other hand, you know,  
2 we've got the structure to guide clinical care. So  
3 as far as amount of evidence that's required, I mean,  
4 I think a lot of it is there but we're not doing it.

5 DR. PEARSON: Yes.

6 MS. DAVENPORT-ENNIS: I would also like to  
7 make a comment to the gentleman who spoke to the  
8 issue of PAD. Certainly thank you for enlightening  
9 us on the panel, thank you for enlightening the  
10 patient population to the issue, and I would like to  
11 share an observation. It was suggested that perhaps  
12 what needs to happen is there has to be a statutory  
13 revision if this is going to be reviewed as a  
14 diagnostic rather than therapeutic intervention, and  
15 I would like to defer to remarks that Secretary  
16 Leavitt says frequently when we are addressing issues  
17 around health information technology, and that is  
18 that so much of the reform in health care will be led  
19 by the patient.

20 If we could put you on every national  
21 stage and every national nonprofit patient meeting in  
22 the United States of America for the next 12 months,  
23 I feel very assured that the number of patients in  
24 America who would be walking into their physicians  
25 and requesting this particular diagnostic process as

00143

1 part of just their standard examination would  
2 accelerate probably even beyond the expectations of  
3 your organization. And I think that in looking for  
4 solutions, certainly coming before this body and  
5 addressing this body is one solution, certainly going  
6 to Congress and seeking statutory reform is one  
7 solution. But I would also invite you to join hands  
8 and hearts with the patient community of America and  
9 see if we cannot indeed be a favorable force in  
10 moving your issue to become standard practice within  
11 the cardiac community.

12 DR. BECKMAN: Absolutely. So, I would  
13 have to say first that the Vascular Disease  
14 Foundation, which is the overriding organization that  
15 puts up the PAD Coalition does include such  
16 patient-based organizations specifically. However, I  
17 would be happy to go speak in every state in every  
18 place that someone would invite me to come speak  
19 about this issue. I think I can find experts in  
20 every state and in every at least large medical area  
21 that could speak about this issue with the same level  
22 of passion and interest. Again, the organization  
23 which I have the privilege of speaking for today  
24 represents more than a million people who are  
25 interested in this disease. I myself know at least a

00144

1 hundred people across the country who would speak  
2 with similar passion and interest. So I will take  
3 every step that you think will help us move from  
4 where we are today to where we need to be tomorrow,  
5 and there's no limit to what we are willing to do.

6 We're all committed to making sure these patients do  
7 what we want, live longer and feel better.

8 MS. DAVENPORT-ENNIS: And I think I would  
9 add to that, in a very timely manner. I think we  
10 need to facilitate an introduction for you with the  
11 National Health Council and again, to get some of  
12 those nonprofit patient leaders to know who you are,  
13 and I will certainly be happy to meet with you after  
14 this meeting.

15 DR. BECKMAN: That would be wonderful.

16 DR. PEARSON: Yes, Barbara.

17 DR. ALVING: Sorry I missed the talk, but  
18 I am very enthusiastic in support of this ABI and  
19 work very heavily with the organization at NHLBI.  
20 The problem is, you know, we read earlier this week  
21 that the life expectancy of women is going down, it's  
22 all about behavior. And one could look at ABI as one  
23 way to kind of take people by, you know, the collar  
24 and shake them and wake them up. They've been told  
25 to quit smoking for 20 years now, but then you say,



00145

1 you know, we've got evidence here that your vessels  
2 are getting all clogged up and you're not going to be  
3 able to, you know, even walk to the store, or that's  
4 why you can't walk to the store anymore.  
5 It's the same way that we're looking at  
6 spirometry for patients, to really -- I mean, I saw  
7 one woman I'll never forget several years ago, who  
8 was a chain smoker and in the hospital because she  
9 couldn't breathe, and she said, you know, they told  
10 me I have COPD, what is that. So somehow we have to  
11 wrap this into the overall health message and I would  
12 say that there are, you know, some people are already  
13 on their statins, et cetera, et cetera, because  
14 they've gotten their classical measurements, or  
15 somebody for example died of an MI, but some people  
16 are clueless, and the ABI would be another way into  
17 waking them up. But somehow it has to be wrapped  
18 into the overall picture. We've already talked about  
19 people on Medicare focusing on their own four to five  
20 diseases, and we need to fold it into that context.  
21 DR. PEARSON: Mark has one more comment.  
22 DR. HLATKY: You know, I think this has  
23 generated a lot of discussion, but it raises two  
24 issues to me. One is this idea of, I think Mark  
25 mentioned about something about a chain of evidence

00146

1 and you know, can we connect the dots enough. And I  
2 would actually say that's actually very important,  
3 that we may need to look at this in a way to say we  
4 do need to connect the dots.  
5 I was just reading on the plane coming out  
6 here a study where they are looking at new  
7 interventions, a new drug to treat HDL. And it was  
8 very clear that HDL was bad, low HDL was bad, raise  
9 it, you know, numerous studies have shown this, we  
10 had a drug that did this, you know, et cetera,  
11 et cetera, and what happened in the end? Patients  
12 were harmed because the drug had unintended effects.  
13 And so the reason is just to say I'm a little  
14 suspicious about saying well, you know, we have all  
15 the pieces and so we don't need to connect them, the  
16 pieces of evidence, you know. I think there's a need  
17 sometimes to make sure that it is seamless, that  
18 there's not a gap, because there are other things  
19 that could come back to us about that.  
20 And with respect to this ABI measurement,  
21 I think it's one of a class of measurements that is  
22 basically a diagnostic or a risk marker measurement,  
23 of which there are many. There are many new  
24 biomarkers, there are many other imaging tests, there  
25 are many other things with respect to coronary

00147

1 disease and the question comes, okay, we have  
2 information but how actionable is that information,  
3 what evidence do we have that it really helps people,  
4 and most importantly just like in this other thing  
5 is, what kind of unintended effects are there from  
6 potentially using this, which needs to be done.  
7 Maybe it's less obvious for PAD, but I can say the  
8 coronary calcium scan is a similar thing in the same  
9 vein, the same arguments are out there, and there's  
10 some issues about well, okay, what about some of the  
11 negative effects of getting those tests.  
12 So I'm just saying, I support the idea of  
13 doing more research on ABI because I think that's  
14 important, but the reason is because I'm suspicious  
15 about being too glib about connecting all those dots  
16 without having it really firm that the chain of  
17 evidence is connected, and realizing that there are  
18 sometimes unintended spin-offs from these things, so  
19 we need to prove that we really are improving  
20 outcomes for patients, not that just we're generating  
21 information about risks.  
22 DR. PEARSON: I would like to let  
23 Dr. Weintraub have a chance to respond, and then I'm  
24 going to let Barry give sort of a summary of his  
25 response to some of the comments before we break for

00148

1 lunch.

2 DR. WEINTRAUB: I think what Dr. Alving  
3 brought up is really sort of the key point, and  
4 Mark's comments in response were very helpful as  
5 well.

6 This is what the American Heart  
7 Association is really all about, because vascular  
8 disease is largely preventable. In young people,  
9 diets, exercise and smoking cessation, and as people  
10 move into middle age and beyond, blood pressure  
11 control, again, the control of lifestyle, lipids,  
12 screening for diabetes and at least one screening  
13 with ABI. And with all of this vascular disease is  
14 largely preventable and very treatable, so why is  
15 this our number one killer? And I think our number  
16 one killer is the society, both in terms of behavior  
17 and in terms of good healthcare delivery, we're not  
18 doing a good job.

19 In addition, I think there are lots and  
20 lots of uncertainties along the lines that Dr. Hlatky  
21 brought up. We can't just assume that because you  
22 treat a surrogate that raises HDL that it's going to  
23 benefit patients. As he mentioned, a drug that  
24 raised HDL actually resulted in more harm than good.  
25 And there are lots of screening tests available now,

00149

1 all of which are being pushed rather passionately,  
2 some of which are really quite expensive, and their  
3 impact on outcome.

4 And Dr. Hlatky also brings up a perfect  
5 one with coronary calcium screening. Much more  
6 expensive and exposure to radiation. Much less  
7 certain that it's going to be of benefit. As a new  
8 one not being applied I really like ABI, because it's  
9 inexpensive and no one is going to be harmed by doing  
10 it.

11 But I think what we really need is to  
12 figure out as a society how to deliver medical care  
13 well. We're going to do more to help people save  
14 lives if we do what we know how to do already and do  
15 it well.

16 DR. PEARSON: All right. Knowing there  
17 are other comments that people would like to be made  
18 and people would like to make them, but since it's  
19 getting nigh on noon, let's let Barry sum up and then  
20 we can come back and pick up the conversation after  
21 lunch.

22 DR. STRAUBE: I would like to try to  
23 respond as was suggested to the comments, just at  
24 least briefly. This is an off the top of my head,  
25 unofficial kind of response.

00150

1 First of all, the MedCAC of course is an  
2 advisory committee to CMS, so what's happening today  
3 as a refinement of what we thought was the original  
4 goal is advisory to us. As I said at the outset,  
5 this is somewhat of an iterative process, so we're  
6 going to take what comes out of this and the prior  
7 committees, and that includes the public comment  
8 which is very important as part of these proceedings,  
9 and decide what specifically to do.  
10 Our original goal, again, had been  
11 specifically to look for evidence gaps that primarily  
12 would inform coverage decision-making in general, not  
13 to set a coverage agenda in terms of what we would be  
14 covering the next year or two, or not covering. But  
15 to identify these gaps so we could start to then peel  
16 back the onion and try to say how do we get that  
17 evidence to be provided to our benefit, and that  
18 would require additional meetings and discussions in  
19 a, you know, fully transparent manner.  
20 I think, though, as we've gone through  
21 these meetings, and to be fair to Randy and Teresa  
22 especially, and by the way, in addition to  
23 hand-holding, I always go into what I call my doctor  
24 mode when I'm doing management when we're dealing  
25 with challenging issues. And one of the things I

00151

1 think that doctors have to do to be good doctors is  
2 to listen, and it doesn't matter what people are  
3 saying. And especially you have to resist the urge  
4 to tune out people who may be saying something that's  
5 different than what you want to hear or what the  
6 topic of discussion is, because it may be a very  
7 important point. So I think those comments that you  
8 made were very good and let me come back to that in a  
9 second.

10 In terms of the speakers, official  
11 speakers we had, I think Diane Smith, I would take  
12 her comments to get back to this afternoon's efforts  
13 to be relevant, vis-a-vis there was at least one  
14 topic that had to do with incontinence, and there  
15 were related, a few other related ones too. So what  
16 I took from you, Diane, was that those were good  
17 topics to identify as priorities, there is some  
18 evidence that you and your colleagues have developed,  
19 but there is a need for us to develop additional  
20 comments, so I think that was very helpful.

21 MS. SMITH: There's now an official scope  
22 of practice for nurse practitioners interested in  
23 providing services to people in long-term care for  
24 continence and urology needs, and it's being endorsed  
25 by two different nursing organizations.

00152

1 DR. STRAUBE: So that's helpful and I  
2 think the committee should be cognizant of that as  
3 you go through your scoring this afternoon in terms  
4 of the relevance of some of the topics that the  
5 federal panel came up with.  
6 Cynthia Rice from JDRF made some very  
7 helpful comments too and I think, again, specifically  
8 I was going back to the list and it was relevant to  
9 monitoring of diabetes results and what you do with  
10 them during the process. So that was very helpful  
11 and I remind folks to be cognizant of that comment.  
12 I'll skip Teresa and Randy just for a  
13 second. Dr. Beckman, again, obviously made some  
14 comments suggesting refinement in fact of some of the  
15 way things are stated, but was clearly advocating for  
16 the importance of peripheral vascular disease or  
17 peripheral arterial disease. And Dr. Weintraub, who  
18 has been present at both of these, made some very  
19 helpful comments about specific items on there, so  
20 again, I remind you to look at those.  
21 I think, back to Randy and Teresa's  
22 points; again, our original intent, as I said, was to  
23 try to identify gaps that would inform us of  
24 coverage. But as I have been going through this and  
25 with your comments today and others on the committee,



00153

1 I think that in addition to that focused intent  
2 originally, we have to remind ourselves we did change  
3 the name of the MCAC to MedCAC, and we have a brief  
4 description of why we did that and what the role of  
5 the MedCAC is currently. But the addition, the  
6 relevant addition was Medicare Evidence Development  
7 and Coverage Advisory Committee, and I think we're  
8 using evidence in a whole slew of ways within CMS.  
9 So part of the anxiety that I think some  
10 folks have, justifiably so, is what is the rest of  
11 that evidence development, and that's something we  
12 haven't fully defined and may need to do in the  
13 future of MedCAC, in terms of what is the scope of  
14 this committee going to be beyond just a coverage  
15 focus. For now it's not beyond that specifically,  
16 but there have been many suggestions made that I  
17 think we could take to heart right now, bring back,  
18 discuss it at a staff level, and then when we come  
19 back with announcing what came out of this, also  
20 consider the broader picture of evidence development  
21 and what this exercise has to do with that broader  
22 exercise.  
23 Some of the areas, again, that we use  
24 evidence development beyond just coverage, has to do  
25 in quality measurement development, it has to do with

00154

1 public reporting and transparency, we want to put  
2 only evidence-based information on there if we can.  
3 It has to do with quality improvement and how we  
4 inform providers, the people who provide the care,  
5 and beneficiaries as to what the best kind of care  
6 that they should choose themselves, and/or advocate  
7 for themselves or their patients. We're using  
8 evidence-based medicine and evidence-based  
9 decision-making in our value-based purchasing and  
10 incentive programs to try to promote quality and  
11 value in health care.

12 There are policy decisions that we make,  
13 and that's one of the concerns that people have, you  
14 know, are we going to make policy out of this. And  
15 then there are, we obviously talk with the Hill and  
16 three are legislative issues that we discuss with  
17 Congress and with the administration in terms of  
18 going from there.

19 So Randy and Teresa's points are well  
20 taken, I think in that larger context. So I think  
21 what I would like to conclude with and everybody can  
22 go to lunch then, is that in addition to the main  
23 focus this afternoon, we'd like Dr. Pearson to focus  
24 the committee on looking at the work that's been  
25 done, the scoring, so we can come up with a priority

00155

1 list here. I've heard some advice from the committee  
2 and from the public that there may be some other  
3 things we should consider and we will, and that has  
4 to do with announcing publicly what we're going to do  
5 with this, why we come to whatever conclusions we do,  
6 and I think in a broader context it probably is  
7 starting to address this bigger issue of evidence,  
8 how we're using not only this, but other forums to  
9 gather comments about evidence-based decision-making.

10 And the topics, by the way, that were  
11 raised here and are raised at every meeting that I go  
12 to, I think, comparative effectiveness and cost  
13 effectiveness. That's a given, that's going to keep  
14 coming up, and we're going to have to decide how best  
15 to engage with that at some point, but that's not the  
16 purpose of today in terms of comparative evidence.

17 DR. PEARSON: Thank you, Barry, and thanks  
18 again to the public speakers, both those prepared and  
19 those who came up. We're going to try to come back  
20 again -- the cafeteria gets crowded so I encourage  
21 you to go there now to buy your lunch, I speak from  
22 experience, it will take you that long to get through  
23 the lines, and we're going to meet back here at  
24 one o'clock.

25 (Recess.)

00156

1 DR. PEARSON: Thank you again for coming  
2 back, and we will begin. There are lots of ways that  
3 we could start off this next session because  
4 ultimately again, and just to kind of frame what  
5 we're going to do, we're going to have an open  
6 discussion of the panel, in our agenda it's labeled  
7 initial and then final, but it's all going to come  
8 together, and the point is to inform our own thinking  
9 and to make it more transparent as we move to a point  
10 in the meeting at which all members of the MedCAC  
11 panel will write down a score, a new revised score on  
12 the priority of scale of one to ten and that will be  
13 handed in to the CMS staff, but will not be collated  
14 or averaged or anything today, but it will be made  
15 available and I'm sure that they will let us know  
16 exactly how.  
17 And we also, we did want to spend some  
18 time as a group reflecting on the process and ways  
19 that we might advise Medicare going forward, thoughts  
20 about issues that have come up for us as we tried to  
21 do this, and perhaps some suggestions moving forward.  
22 So one way that I think might be helpful  
23 to start off is to have people try to, I think the  
24 picture I used was to take their brain out and put it  
25 on the table in front of them, and let's try to

00157

1 express how we are looking at this list and have  
2 tried to make prioritization, what factors have we  
3 looked at, how have we tried to weigh different  
4 issues. Because none us will have had all of the  
5 information that one might want in order to make a  
6 perfect prioritization, even if we know what our  
7 criteria are.  
8 So I would like for people to think about  
9 what criteria they have been using in their own  
10 thinking and also to perhaps give a specific example  
11 of one of these topics that they gave a very high  
12 ranking to and maybe one that they gave a very low  
13 ranking to, to kind of make, again, more explicit how  
14 our processes have been done. And through that  
15 conversation, again, we may find that we have an  
16 emerging consensus around the ways that we want to  
17 take some of these criteria into consideration.  
18 So with that in mind I'm going to actually  
19 pick on someone who heard this a little bit over  
20 lunch. Mark, I'm going to start with you.  
21 DR. GRANT: You promised me you wouldn't.  
22 DR. PEARSON: I know I did, but since you  
23 did hear it, and you've done this twice, you told me.  
24 So what we're going to do, it doesn't have to be  
25 everybody, but I would like to get a good sample of

00158

1 folks, and if you have a particular way that you feel  
2 that like you have been prioritizing that's important  
3 for others to hear, let's make sure to hear the way  
4 that you approached it.

5 DR. GRANT: All right. Well, as a general  
6 principle, which was difficult to apply lacking some  
7 of the information that I wanted, the first thing  
8 that I obviously did was to examine the question or  
9 the topic and see how specific it was and how it  
10 might change decision-making, you know, and based on  
11 some of the other reading materials that we got  
12 before, I guess as criteria my general view was a  
13 measure of some health-adjusted life years, the idea  
14 being in the ideal situation, if I knew the answer to  
15 this specific question that was posed or the topical  
16 area perfectly or with reasonable certainty, how  
17 would that ultimately affect a measure such as some  
18 health-adjusted life year measure, some quality of  
19 life or meaningful outcome measure related to the  
20 disease at hand.

21 And where uncertainty was high and I  
22 thought the information would be critical to inform,  
23 I ranked them very high. But also where the impact  
24 would be high, I tended to rank those items or  
25 topical areas higher, whereas those that were less so

00159

1 based on the knowledge that I have obviously, there's  
2 lots of areas I don't have knowledge. Does that fill  
3 it out enough?

4 DR. PEARSON: Can you give us a specific  
5 example perhaps?

6 DR. GRANT: Well, I guess my favorite one  
7 is CT angiography, it's on here. I ranked it high  
8 because I think that the uncertainty is significant  
9 in terms of defining its role in terms of what are  
10 the potential benefits and what are the potential  
11 harms specifically. We know some of it, but I think  
12 some of the critical pieces of evidence are missing  
13 on it and its potential impact both in terms of  
14 benefits, but also in terms of the downstream  
15 consequences are great.  
16 Some of these I probably ranked low also  
17 because -- well, I ranked low, and people -- well,  
18 let's see. I think it was neuro-imaging modalities  
19 for headache, and that is based on what I know in my  
20 experience.

21 DR. PEARSON: Okay, thank you. Anybody  
22 else want to express? Karl.

23 DR. MATUSZEWSKI: In having the test of,  
24 task of evidence gap priorities, earlier today we  
25 heard about what were some practice gaps which are

00160

1 different from evidence gaps. I think I heard some  
2 discussion about educational gaps, both educational  
3 for the clinician and the patient. But when I went  
4 through the list of the different topics, I realized  
5 that the priority I was putting down, and I think the  
6 rest of my panel members would be completely  
7 different and say if this was a panel of ethicists,  
8 of healthcare ethicists, or if it was a panel of  
9 healthcare actuaries, we were supplied with a whole  
10 lot of data and I could not feed that into my  
11 computer because this is not a multiple regression.  
12 The priorities would be different if it  
13 was just NIH researchers, it would be different if it  
14 was practicing clinicians, it would probably be quite  
15 predictable if it was advocates of specialist  
16 societies and special populations. I think that  
17 there is a good chance here of saying this is what I  
18 know real well and this is what I put all my chips  
19 into.

20 In terms of -- I don't think anyone in  
21 this room, or perhaps no one in this world could say  
22 that they're aware of, in any great detail of the  
23 evidence that exists for all the topics that were  
24 presented in the list. I think some people who are  
25 generalists might have a sense, if you read a



00161

1 reasonable array of clinical journals every month, I  
2 think you get some sense of where evidence is  
3 evolving and developing.  
4 But I have to admit, in my final  
5 prioritization I tended to put higher priorities on  
6 topics like electronic medical records, like health  
7 policy decisions that could indeed affect and advance  
8 forward knowledge in a whole lot of clinical areas  
9 across a lot of different populations. And what I  
10 tended to rank lower were when it was very specific  
11 in terms of the question in this age group, in this  
12 particular disease in this circumstance, because I  
13 think if you answer the broader health policy  
14 questions you will be able to get down to that level,  
15 or at least you will have much greater information.

16 DR. PEARSON: Yes, Linda.

17 DR. BERGTHOLD: How were these questions  
18 selected? I took them to be examples of types of  
19 research questions, not definitive research  
20 questions, because some of them were yes and no  
21 answers, so I was just wondering whether they were  
22 meant to be the question to be answered or just an  
23 example of a question that could be answered.

24 DR. PEARSON: There is probably some  
25 specific reasons, I mean answer as to how they were

00162

1 gathered. I know the answer is from obviously  
2 different parts of the process and they ended up  
3 framed differently, as you said. I think one thing  
4 that we should decide as a panel, this came up in  
5 conversation at lunch, was if we think that the  
6 question itself is poorly worded or too narrow but  
7 still represents an area that we think if the  
8 research question were more properly framed would be  
9 of high priority, I think it's reasonable to give  
10 that the benefit of the doubt, that the research  
11 question would be refined and it would represent a  
12 good bite of the apple.  
13 Now that's tough because to a certain  
14 extent, like for instance around the ABI, he said  
15 that the question really was off target in  
16 significant ways, the wrong outcome and wrong  
17 framing, so we may not be able to fix all of these in  
18 that way. But to a certain extent I think it is  
19 probably reasonable and if anybody feels otherwise,  
20 let's talk about it, to try to give the benefit of  
21 the doubt to the question as recommending something.  
22 Does anybody disagree with that?  
23 DR. BERGTHOLD: So I'll give you my  
24 criteria then. I have this interesting role as  
25 consumer representative which, don't pin me down too

00163

1 hard on what that means, but here's how I have  
2 thought of it over a period of years, and that is  
3 that it's different from being a patient advocate,  
4 because I'm not advocating for a disease or for  
5 someone who is ill, but as a Medicare beneficiary  
6 myself, thinking about the population of the Medicare  
7 beneficiaries as a whole, both their health and their  
8 illness. And so when I look at these research  
9 questions, what I tend to do is look at sort of a  
10 couple of things. Number of people affected would  
11 probably get a higher score. Whether the research  
12 question could prevent further disease, so catch it  
13 early would be important I think for beneficiaries.  
14 Research questions that would, if answered adequately  
15 would improve quality of life, and have an impact on  
16 treatment.  
17 So I would have put the effect of total  
18 body cooling and sudden death as low because it  
19 affects relatively few people and not -- it's sort of  
20 preventing death, but it's not exactly the prevention  
21 idea, and something like how effective is aggressive  
22 blood pressure in the elderly in preventing or  
23 delaying CHF as higher. So that's sort of how I  
24 would be looking at these questions.  
25 DR. PEARSON: Yes.

00164

1 MS. FRIED: I wanted to go after her  
2 because I actually used very similar criteria which  
3 I'm not going to repeat, but I also added, I really  
4 looked at quality of life issues in sort of my own,  
5 that was a very high factor for me, and especially in  
6 dealing with issues concerning functions and so,  
7 along with some of the other comments made. So I  
8 ranked actually very high, as an example, the impact  
9 of some of the rehab therapies on -- well, I have to  
10 find it, but some of the rehab therapy, the physical  
11 therapy and occupational therapy for certain people.  
12 I can't find it, but you get my point. I ranked high  
13 things like that, that would really have an impact on  
14 function for some of the Medicare beneficiaries.

15 DR. PEARSON: We'll keep going down this  
16 way and then come back. Yes.

17 DR. BILD: I used some of the factors that  
18 other people have mentioned regarding the burden of  
19 disease, morbidity, quality of life, the number of  
20 patients affected. I also in some cases picked up on  
21 whether I thought there was a real lack of research.  
22 So for example in the genetic risk factors, does the  
23 knowledge of genetic risk determine its improved  
24 screening and prevention program, I rated that fairly  
25 high because there's a lot of interest in that area

00165

1 and it's actually something that's being put out  
2 there and being used without any, or with little  
3 evidence in some cases. So there was a lack of  
4 evidence and I put it higher.  
5 I will also say sort of along the same  
6 lines of what Linda said, sometimes the wording of  
7 the question influenced the way I ranked it and I  
8 might have done it differently if I had a different  
9 mindset. In some cases there was a lot of redundancy  
10 so if there were, say, four or five related to  
11 vascular imaging, I, you know, I might have rated a  
12 few of them high and said okay, I've rated three of  
13 them high already, so I won't do it again.  
14 The other just comment along those lines  
15 is I see that, now that I've looked at them, I didn't  
16 use the full range of scores. I was an easy grader.  
17 So I was enthusiastic and that may not be the way  
18 other people think.

19 DR. PEARSON: Yes.

20 MS. DAVENPORT-ENNIS: And I would like to  
21 share that some of the criteria that have already  
22 been cited I also used. I thought it was important  
23 to look at the different, if you look at the Medicare  
24 population, what are the diseases that are very  
25 prominent and what are some of the therapies or

00166

1 testing that is going to have to be used broadly  
2 across that community, and if so, try to give that  
3 some high priorities.

4 I also looked at some of the, with members  
5 from the scientific community and with other  
6 nonprofit organizations to be able to get a  
7 collaborative sense of what is important to the  
8 community, and in doing that identified what are some  
9 of these topics, such as MRSA, that could indeed pose  
10 a public health risk, and if we felt it posed a  
11 public health risk, we certainly scored that very  
12 high.

13 When we look at cancer and things like the  
14 need for biomarker studies, we see that that is a way  
15 to avoid losing patients through a failed first, or a  
16 step therapy, maybe two to three steps and failing,  
17 before they can get to drugs. So if we can  
18 accelerate the use of biomarkers in these tests to  
19 get the patient to what they need to, we scored that  
20 highly because we felt it would give great advantage  
21 ultimately.

22 We also recommended, which I know could  
23 not be published, but we did supply to the Agency an  
24 additional form where we suggested that some of the  
25 topics be combined into one study that would cover

00167

1 multiple areas and that in some instances the  
2 question that was asked we felt would only have  
3 relevance if we could know what the therapeutic  
4 intervention was going to be so if you were going to  
5 do the test or study it, then what is the subsequent  
6 therapeutic?

7 And then such as the neurodegenerative  
8 disease questions, we felt an important question  
9 always to be answered is will those therapies improve  
10 functionality and independent living, which was  
11 important to us in many of the categories.

12 DR. PEARSON: Richard.

13 DR. WHITE: I think I looked at things a  
14 little bit different. I started out by assuming that  
15 whatever information is generated from our endeavors  
16 will be looked at very closely, and to credibly truly  
17 evaluate the current status of the research strength  
18 of each of these issues, no one could suggest that we  
19 understand very much at all beyond our own special  
20 interests. And to make comments based on the  
21 research strength, for me to make comments on the  
22 research strength of research support for a diabetic  
23 issue is totally inappropriate.  
24 And I think we should realize that and I  
25 think a good example from the morning session,

00168

1 unfortunately they aren't here, but the two  
2 cardiologists, one of the cardiology reports listed  
3 the six or seven hot topics, and wouldn't it be nice  
4 if you really had experts in each of the areas to  
5 tell you what the current status of the research is.  
6 But the point is that since I know with the exception  
7 of a few specialties I can't do that, I can certainly  
8 comment on things I know about and I looked at them  
9 in terms of the impact.

10 In orthopedics we're very, very concerned  
11 with quality of life issues and functional  
12 improvement and so I looked at things that were the  
13 most frequent, the most costly, the most high in  
14 terms of producing either morbidity or mortality,  
15 look at that as a baseline information. I didn't try  
16 to factor in if I had any concept at all  
17 realistically other than a nonscientific opinion  
18 whether we could comment on the research part, and  
19 that's how I sort of rated things in that way.

20 DR. PEARSON: Thank you. Sean, let me ask  
21 you, you may have your own thoughts, but I also  
22 wanted to pick on you because I know you've had some  
23 experience working with the James Lind Alliance,  
24 which is an international group that tries to put the  
25 patient at the very center of the process of



00169

1 prioritizing research; as opposed to being at the  
2 table, it's meant to really put them in the driver's  
3 seat. You may have some comments on how that  
4 perspective has or hasn't been reflected either in  
5 the list of questions here or in what you think the  
6 prioritization should be, as to whether that had any  
7 role in your own thinking.

8 DR. TUNIS: Yeah. I wouldn't say that I  
9 was -- the James Lind Alliance is actually, the focus  
10 is to try to get the questions of clinicians and  
11 patients identified to then drive a research agenda,  
12 and they've created something called the DUET, which  
13 is the database of uncertainty and effectiveness of  
14 treatment, which is sort of -- Ian Chalmers, who  
15 created the Cochrane collaboration, is now with the  
16 James Lind Alliance, and he's good at coming up with  
17 pleasant names. So the notion is that the kinds of,  
18 you know, unanswered questions that patients and  
19 clinicians have in decision-making differ  
20 systematically from what perhaps policy-makers and  
21 payers want to know.  
22 That experiment has been, you know,  
23 modestly successful. It turns out that clinicians  
24 have very different questions from patients and  
25 they've tried to get them both together. But what's

00170

1 clear is that, you know, and Nancy probably has a lot  
2 of this view too from her work, is that patients do  
3 care a lot more about, you know, what is the impact  
4 of this treatment going to be on my function, on my  
5 quality of life. They are less interested in, for  
6 example, do patients across a broader range of  
7 compliance or heterogeneity, how do they do.  
8 Because, you know, patients who assume they're going  
9 to be compliant with the therapy, they want to know  
10 how effective it's going to be if they follow  
11 directions, not on average how effective is it in  
12 people who, some of whom comply and other ones don't.  
13 So it does lead to different research questions and  
14 different research design.  
15 The only thing I was going to add in terms  
16 of my approach to prioritizing was, you know, besides  
17 burden of illness and a little bit of economic impact  
18 and prevalence, which a lot of people I think were  
19 considering, was did the question look like something  
20 that the existing clinical research infrastructure  
21 wouldn't prioritize highly. So you know, it looked  
22 more like an effectiveness question or a pragmatic  
23 question or, you know, something that kind of  
24 addressed a real world type of question.  
25 And then the other thing that influenced

00171

1 me quite a lot, whether it should have or not, was  
2 the question framed in sort of a research hypothesis  
3 kind of way, you know, specifically a defined patient  
4 population, a defined intervention, a defined  
5 comparison group and a defined outcome. So if it was  
6 framed in a way that it was clear what the question  
7 was, I tended to give it a higher score, whereas  
8 something like vascular disease imaging, does it  
9 drive practice, I gave a zero just because I  
10 couldn't, you know, maybe I didn't have enough time  
11 to figure out what the question was.

12 DR. PEARSON: Yes. Nora.

13 DR. JANJAN: Consistent with some of our  
14 earlier remarks today it seems to me that we've got  
15 really also two different types of questions here.  
16 One, like the bone densitometry study, it's a mature  
17 technology that's been out there forever that  
18 millions of women are undergoing every day, every  
19 year. So the point is, why don't we know this  
20 already, and why are we continuing to do this in our  
21 standard of practice if we don't really have evidence  
22 to support it, and yet it's in our guidelines. So I  
23 don't understand why we don't know this and  
24 incorporate it into standard of care.  
25 Then you've got some immature, more

00172

1 immature experiences like Her-2/Neu, you know, that  
2 haven't been out there for 20 or 30 years, and surely  
3 we can learn more as we get into Phase Four and we're  
4 able to get more specific data out of it. So some of  
5 it is the potential, like Her-2/Neu, and some of it  
6 is standard practice, like why aren't we applying  
7 what we know already, and if we don't know this, why  
8 are we doing it.

9 DR. PEARSON: Yes, Barbara.

10 DR. ALVING: I have just a couple of  
11 thoughts. One could be, you could look at these  
12 questions and decide maybe you want to rearrange some  
13 of them, some of them you may want to drop out, so  
14 you could sort of do a little bit of editing with  
15 some of the questions.

16 The other one is that it would be very  
17 interesting to present this, let's say challenge, to  
18 systems engineers, because really, I can see two  
19 other ways of looking at what we're trying to get at.  
20 One is to overlay a series of grids. For example,  
21 you could have one grid -- well, you could say  
22 increasing costs of doing this study and that would  
23 be on your abscissa, and on your ordinate would be  
24 your return on your investment. Now, how do you  
25 define that return, and this would be where you have

00173

1 your overlapping grids. One would be savings to --  
2 and when you say, well, savings to Medicare, actually  
3 that would be savings to our country and then that  
4 money gets used somewhere else.  
5 It could be quality of life return, it  
6 could be, you know, whatever, and then you put those  
7 grids on top of one another and you're going to find  
8 certain studies that maybe really come out very well.  
9 For relatively low cost you're going to get a very  
10 high return on your investment in three or four or  
11 five domains. In a way it's sort of like then you  
12 could assess a global benefit score where you say  
13 well, we've looked at all of these five factors,  
14 maybe you sort of weighted them in terms of expense  
15 and quality of life, et cetera, and then give or  
16 assign sort of a priority to that.  
17 DR. PEARSON: Well, Mark's smiling because  
18 we were -- have you heard of value of information  
19 analysis? We might as well introduce it, because you  
20 could have just created it from what you just said,  
21 and it's an economic modeling approach to judging the  
22 return on investment, if you will, and by that they  
23 mean return on knowledge that you gain from a study  
24 in a particular area. So if you can increase the  
25 precision around which you know the effectiveness of

00174

1 a drug, how much will that yield you in terms of  
2 improved patient outcomes, or a particular price, if  
3 you will, of the research. So there are  
4 sophisticated mechanisms out there and actually there  
5 are other countries that have been using this to a  
6 certain extent because they tried very hard to do  
7 exactly what we're doing, which is to link the  
8 decision-making process back into the research  
9 prioritization. So it's something I think we may  
10 want to look into, because there are experts who are  
11 quite fond of it as an approach.

12 Yes, Mark.

13 DR. HLATKY: Just to get back to it now,  
14 how do we, or how would I handle some of these  
15 things, and some of the things that I used to weigh  
16 many other people have mentioned a lot which is, you  
17 know, prevalence of disease, how severe it is, the  
18 impact on people. I was influenced also by the  
19 article that we got from, I think it was Von Gross in  
20 the New England Journal that talked about some areas  
21 seem to be relatively underfunded and I paid  
22 attention to that, like chronic obstructive pulmonary  
23 disease was one of the underfunded areas, and I said  
24 well, I didn't know that, so maybe we ought to put a  
25 little bit more priority on that.

00175

1 Other things that I had were sort of what  
2 I would call researchability and ripeness for  
3 research as sort of being important things that were  
4 there, and I tended to not put down things that I  
5 didn't really think were research, that I thought  
6 were maybe questions that people had but weren't  
7 research. Like one of them, a couple of them are  
8 actually under this health policy area, which seemed  
9 to me to be a mix of things that were really research  
10 and other things that were just kind of questions,  
11 like would it be cost effective to pay for glasses  
12 and what would the cost offset be.  
13 I rated that at the absolute bottom  
14 because I just thought that was a coverage question,  
15 you know, why don't we pay for glasses. I wasn't  
16 really, I mean nobody would disagree that it's not  
17 effective to get people glasses who can't see well  
18 and it doesn't cost very much, so I mean, where is  
19 the research question in this one? It seemed to me  
20 to be a policy thing like why don't we pay for this.  
21 So I was less impressed with something like that.  
22 On the contrary, this question about CT  
23 angiography, I've worked a little bit in this area  
24 and I think it's an extremely important question  
25 because it's a big issue, it's a new technology, it's

00176

1 going to have a huge impact, and we don't know what  
2 the outcomes are going to be. Now, I might rephrase  
3 that because I'm not sure cost effective, which was a  
4 word that was not well received by many, I think the  
5 intent of that is what is the effect of using CT  
6 angiography on clinical outcomes is really what it  
7 means to me, and rephrased that way I thought it  
8 should be very highly rated, and so in some cases  
9 also, the specific wording.

10 Finally, I guess I also considered at the  
11 federal scientists level that they may have provided  
12 some information on researchability, if you will,  
13 that they may think that the, you know, the scores  
14 from the other federal scientists. And in particular  
15 when it was rated highly to start with and not so  
16 much on the second round by the federal scientists,  
17 like this thing on MRSA, I guess we ranked it kind of  
18 high to start with and they didn't. And when I  
19 looked at the question I was thinking well, maybe  
20 this is not -- it's not a very good question  
21 actually.

22 It's like, you know, MRSA is clearly bad,  
23 but this question doesn't sound like a research  
24 question to me either, and it seemed to me that  
25 that's what the federal scientists were saying, and



00177

1 maybe a different question about MRSA would be up  
2 there. But this particular question they didn't seem  
3 to think was very researchable, I guess I took that  
4 into account, and I don't know much about that area  
5 to know what would be the researchable question. If  
6 I was a public health guy maybe I could do that, but  
7 given that that's not my area of expertise I just  
8 kind of left it open, saying well, you know, that  
9 doesn't look like a terribly ripe question.

10 DR. PEARSON: Let me bring back this issue  
11 that I think Sean may have raised first, or at least  
12 touched on it. And that is, some of us at least have  
13 tried to figure out what I would call are the orphan  
14 areas here, where they might not even be the most  
15 important but there's going to be a chronic lack of  
16 good evidence for a variety of reasons. It could be  
17 because the research is just hard to do because  
18 patients are all spread out or it's in primary care  
19 or what have you. It could be because there's likely  
20 to be a lack of a manufacturer interested in funding  
21 research in that area. So I think I also and I think  
22 at least many of us may have factored that into our  
23 thinking of how to prioritize, whereas others might  
24 have felt that they didn't have much of a perspective  
25 on what would be kind of a chronic and difficult area

00178

1 to gather evidence.

2 But I'm just seeking further feedback. If

3 we as a group in general have tried to assess, and

4 again, we're not set up to perfectly assess this, but

5 I think many of us did try to guess where there would

6 be chronic underfunding and underperformance of the

7 evidence in general. Is that a fair statement?

8 DR. TUNIS: I think this is the same

9 thing. I mean, I think there's examples of where,

10 you know, medical intervention, some structured

11 exercise programs to reduce falls in the elderly

12 would strike me as perhaps falling into that

13 category, where there's no natural sponsor for that

14 kind of study.

15 Now also to highlight, it's possible that

16 there's a large randomized trial going on right now

17 on that exact question, so that was one of the things

18 I was constantly aware of, which is I couldn't

19 possibly factor in, you know, what was ongoing

20 research, you know, because a lot of things that are

21 important questions, other people have actually

22 discovered that they are important questions and they

23 may well be studied. None of us are really a good

24 repository for that kind of knowledge.

25 DR. PEARSON: Yes, Lisa.

00179

1 MS. LANG: I'm not going to add anything  
2 in the area of priorities because I think what I used  
3 and stumbled toward was really a lot of what people  
4 are discussing here because of the frustration at the  
5 diversity of questions on the list, the variations in  
6 the level of specificity and the like, and I wondered  
7 what at this point the process might be for moving  
8 ahead and trying to kind of nail down, either agree  
9 that we're going to focus on two or three areas and  
10 try and bring in experts or try and marshal the  
11 expertise, the technical expertise that's sitting at  
12 the table here in those clinical areas, and then  
13 maybe put the rest out for more specialized comment.  
14 I think one of the things I didn't say in  
15 the last session that I think I would like to say is  
16 that I think the bench science question about how you  
17 set an agenda is a good development, how do you set  
18 the priorities among expenditures for basic research.  
19 But the kind of thing that I think the Medicare  
20 program needs most is research that links the  
21 academicians and the clinicians with an eye towards  
22 focusing at the end in the guidelines that actually  
23 will affect care. So that at the outset of the  
24 framing of the question, there is the notion of what  
25 the care process has to be that would be different.

00180

1 And I think when you start talking about  
2 the value of information analysis, I think if we  
3 could come up with some way of merging that decision  
4 analytic approach to the goal of trying to improve  
5 processes of care as we go through this hodgepodge  
6 list and maybe prune it or make it, you know, make  
7 the question sharper in some cases, I think we would  
8 have a better product to go back to the public at  
9 large and ask their opinions about.

10 DR. PEARSON: I think we should definitely  
11 have this part of the conversations. We're also  
12 going to spend the latter part after we do our final  
13 ranking I think doing a bit of a postmortem and also  
14 a view toward the future with exactly that kind of  
15 suggestion.

16 DR. GRANT: Having had the opportunity to  
17 go first, I will make an observation. I think it's  
18 interesting that each of us, although there's overlap  
19 in some respects, has our own calculus here for  
20 solving the equation, and then there's a question of  
21 what really is the equation, and I think one of the  
22 outcomes of this in the most formal way, if I could  
23 say the calculus in the most formal fashion would be  
24 a value-information and other approaches to this,  
25 certainly decision-analytic.

00181

1 But I think one of the outcomes of this,  
2 and I think some of the commenters have asked for it  
3 and I think appropriately so, is to make that  
4 calculus, whatever criteria, or not criteria, but  
5 really what is the formula explicit, or as explicit  
6 as possible. There may be outliers, there may be  
7 orphaned areas, there may be specific things that are  
8 of particular importance for particular reasons. And  
9 you know, from my perspective it's informing, you  
10 know, is it going to be the burden of disability  
11 adjusted life years or are we going to use quality as  
12 a global measure, which includes how many people it  
13 affects, but I think really synthesizing that  
14 calculus might be useful in the process.

15 DR. PEARSON: Other comments or thoughts  
16 about how the prioritization went? I feel like if we  
17 had had a flip chart or a dry-erase board to kind of  
18 write all these different ones, it would look like a  
19 very different calculus. Or even if we listed and  
20 could nod our heads at many of these different  
21 criteria, we would each assign different weights to  
22 them. So to the extent that this is transparent, it  
23 still may not be that explicit, because it's very  
24 hard to guess exactly how each of these factors would  
25 go into an ultimate single number that someone

00182

1 assigns to one of these questions.

2 I think that there's a lot to be said on

3 the broader scale about how this process could be

4 used going forward or how it can be done in the

5 future. Do we have any more things that we want to

6 focus on before we start to turn to actually revising

7 our ranking?

8 DR. BILD: One sort of process question.

9 Somebody sent me a link, and I downloaded yesterday

10 the summary scores from this panel, and I don't know

11 if everybody has that or if that's something we want

12 to work from, or if we're going back to the raw

13 scores, individual scores from last time.

14 DR. PEARSON: I don't know if there is a

15 specific view from your perspective, but all the

16 panel has been given is only their own score so far.

17 We have been given the round one score from the first

18 MedCAC meeting, the score from what do you call it,

19 the federal panel, and our own individual scores. I

20 think that was intended so that we wouldn't be overly

21 influenced to an early consensus, if you will, by

22 looking at other peoples scores in our group here.

23 MS. LANG: (Inaudible) and what the

24 relationship is.

25 DR. PEARSON: That list -- sorry. I was

00183

1 just told that ranking was from the October panel, so  
2 it was a different list of questions that has been  
3 refined since then largely due to the federal panels.  
4 Barry, is there anything else you think we  
5 should comment on before we -- I really hesitate to  
6 start to go through these with a fine-toothed comb, I  
7 don't think we're going to get that much more out of  
8 it.

9 DR. STRAUBE: I think that, again, we  
10 have some fellow type A's, I think we're probably all  
11 type A's sitting at this table, but going to the web  
12 site to get additional information was more than you  
13 needed to do. I think how the staff had set this up  
14 was to get away from the first panel and not have  
15 that influence what was going on, although now we  
16 have another part of the calculus here that some  
17 people have been influenced by looking at that, I  
18 suspect.

19 But if I understand this correctly, you  
20 can shake your heads yes or no, my staff, the federal  
21 workshop ran through two votes, if you will, so what  
22 you have here is what the federal workshop voted on  
23 each of these topics. They took a vote, they had  
24 some discussion, interactions and whatnot, they took  
25 a second vote, so you see a trend there. And that

00184

1 was provided for this committee's information, just  
2 to see where the federal panel got to.  
3 Then you all did your own personal  
4 rankings which were taken by staff and put into what  
5 you each individually received, so that's how you  
6 scored things, not how the committee did. The  
7 decision was made not to provide information of a  
8 combined score taking all of the votes because we  
9 didn't want to bias anybody, wanted to provide your  
10 prior vote. You've heard what was discussed here and  
11 whatnot, and then wanted just like with the federal  
12 panel to get a second vote, and that will be taken,  
13 collated, and come up with a combined vote from the  
14 committee. Leslie.

15 MS. FRIED: I have a question, then,  
16 because I assumed it was two different groups,  
17 because in the round two there's dashes, so what does  
18 that mean?

19 DR. STRAUBE: Good question. What does  
20 that mean?

21 SPEAKER: In the federal panel scores it  
22 was two different groups.

23 DR. STRAUBE: Two different groups.

24 SPEAKER: And if there was a dash, there  
25 was no vote. Not every question got reviewed by two



00185

1 different groups.

2 MS. FRIED: Oh, so some of them only  
3 reviewed some of the questions?

4 SPEAKER: Yes.

5 MS. FRIED: Thank you.

6 DR. STRAUBE: Is that because we ran out  
7 of time or they didn't want to address it?

8 SPEAKER: It was mainly time.

9 MS. LEE: What was the answer?

10 DR. STRAUBE: It was mainly time. It  
11 wasn't we don't want to vote on this because we don't  
12 think it was worthy of being on the list.

13 DR. PEARSON: Sean.

14 DR. TUNIS: So, one thing I noticed about  
15 this list, just to get into a comment I want to make  
16 about a certain level of discomfort I have with  
17 putting another number down for any of these  
18 questions, but I noticed, for example, there's only a  
19 couple of questions on this list that are listed as  
20 related to cancer, so that probably means that there  
21 were few NCI people at the federal workshop or  
22 something. I don't know what it means but presumably  
23 in the universe of potentially important questions,  
24 cancer would come up more often than it did on this  
25 list.

00186

1 Which is not, it's only one indicator of  
2 what I imagine everybody sort of has a feeling about,  
3 which is that it's a fairly, I'm not sure if the word  
4 is opportunistic, but somewhat ad hoc collection of  
5 questions, some of which seem more important than  
6 others, but you know, to -- you know, at the end of  
7 the day I worry a little bit about the implications  
8 of coming up with sort of a first place score from  
9 one to ten for these questions when everybody, you  
10 know, here seems to use some different criteria for  
11 why they rank things high or low and, you know, some  
12 people I think gave high scores to more general  
13 questions, I gave low scores to more general  
14 questions, so I guess that means on average it's of  
15 medium importance.

16 So anyway, the point is, you know, I think  
17 there's a lot of learning to be done out of this  
18 exercise and again, you know, I'm extremely  
19 supportive of it. I'm just not sure personally, and  
20 maybe this is a question for Barry and Steve, you  
21 know, are we sort of obligated to kind of take the  
22 final step to giving a last number for each of these  
23 questions, or is that really more misleading than  
24 informative at this point?

25 DR. STRAUBE: My response to that, Sean, a

00187

1 couple of things. One, as we said at the outset,  
2 this has been an iterative process, and I think the  
3 more we get into it, the more we're learning that  
4 it's more complex than anybody dreamed it would be.  
5 And two, we certainly can refine this going forward,  
6 and I'm not sure what the going forward steps are  
7 yet. I've got a list of notes I have been taking and  
8 some suggestions at the end of this again, as to how  
9 we should proceed. But for the purposes of trying to  
10 get through this as a first iteration, I think as  
11 best people can, realizing that there are all these  
12 biases, faults, omissions, et cetera, that people do  
13 their best just to, given what they know right now,  
14 to try to score these in terms of importance.  
15 Now this is not leading to, we're not  
16 asking people to rank each of these, which would be  
17 their top one and which the bottom. This is simply  
18 what do you think from your perspective. It may be  
19 that you don't have any expertise in diabetes but you  
20 do have expertise in orthopedic surgery, or whatever  
21 our individual backgrounds are. I really like the  
22 aspect of the patient focus to some extent, that's  
23 something we can all share, but whatever our  
24 backgrounds and mix, it's just trying our best to  
25 come up with a score that we have a list at the end.

00188

1 I'm going to make some proposals to the  
2 committee and to my staff and to the public as to how  
3 we act on this afterwards.

4 DR. PEARSON: I would also suggest, to a  
5 certain extent to capture part of what you're talking  
6 about, I think it would be helpful if CMS, when you  
7 present the scores to the public, if you could not  
8 just show the average, but show the range. There are  
9 different ways to display it, but I think it would be  
10 valuable for people to see whether this five comes  
11 from a lot of ones and tens or whatever it might be.

12 DR. JANJAN: And I would encourage you to  
13 show the difference between pre and post scoring.  
14 Because for example, when I initially had this, the  
15 glasses issue, I thought of course this should be  
16 available to everybody because it's a no-brainer, you  
17 need to give glasses to people who can't see. But  
18 it's not a research question and I agree with Mark on  
19 that, so my scores will be, based on this discussion,  
20 will be very different from pre versus post.

21 DR. WHITE: Just one subtle instruction  
22 from you, Dr. Straube. When we rank these and say  
23 give something a ten, highest priority, is that  
24 suggesting by all the different criteria we have that  
25 we feel that it's a very important entity to have a

00189

1 high level of research support, or is that suggesting  
2 that it needs significant additional support?  
3 I think one person commented earlier, why  
4 are we doing osteoporotic screening throughout this  
5 country if we don't know whether it works or not.  
6 Well, we do know it works, okay, it's clear. So we  
7 don't need research support on that but it's a very  
8 high priority in terms of its impact. So are we  
9 looking at what in general should have a high level  
10 of support or are we trying to judge whether it does  
11 or does not? I hope that's not confusing.

12 DR. STRAUBE: No, that's again, a good  
13 point. My simplistic early inclination was that,  
14 again, it was do we agree that there is a gap in  
15 evidence in this particular area, whether it's for an  
16 existing treatment that we have been using but don't  
17 really think that there's a gap there, or an area  
18 that we know that there hasn't been any evidence  
19 obtained, that's what I would put at the highest  
20 priority perhaps.

21 DR. ALVING: I have a particular question  
22 about the CRP. It says routine addition of CRP, and  
23 I think you mean or other biomarkers to standard  
24 lipid profiles reduce risk of clinical vascular  
25 disease. Now, oh dear, do you mean as we currently

00190

1 have them? Because as we currently have them, I  
2 believe nothing has really been validated, we don't  
3 have a Framingham risk score unless you -- and even  
4 then it doesn't say that it reduces vascular disease,  
5 it just says that is the best predictor, and what we  
6 do with that information is something else, so I'm  
7 not quite sure of the intent of that question.

8 It's also an interesting question because  
9 CRP is measured all the time in this country and  
10 again, there are numerous papers and you will even  
11 find the official guidelines there, and yet we're  
12 wishy-washy about trying to prove the issue. I  
13 believe you'll find they're also measured in Europe.  
14 So I have -- what was the intent of that, and does it  
15 mean biomarkers in the future, because that will be  
16 extraordinarily expensive.

17 SPEAKER: That came from the federal  
18 workshop.

19 DR. STRAUBE: Again, these are what  
20 came -- one of the criticisms I think is going to be  
21 the questions weren't refined sufficiently, they  
22 weren't worded appropriately all the time, et cetera,  
23 but this is what the federal work group came up with.

24 DR. ALVING: Oh-oh, we're Feds. Can we  
25 refine it, can Feds help Feds?

00191

1 DR. PEARSON: Let me decide it. Because  
2 there's so many questions for which we could do this  
3 and need to do this, that we won't be able to do it  
4 for all of them. And I think, again, that if we try  
5 to decide -- I think the best way to do it, if you  
6 think that question could be reworded in a way that  
7 would be best, go with that.

8 DR. ALVING: This is where it would be  
9 nice to have a little comment box, we could write  
10 comments, because I would probably just hack it out.

11 DR. STRAUBE: Excuse me, Steve, if I  
12 could, I think the addition of having a comment box  
13 is, I mean one of my take-aways after the fact is  
14 going to be that we probably need to come back and  
15 really critique what we've done here, but this might  
16 be an efficient way of starting that. That is,  
17 people can score but if they want to add a comment, a  
18 succinct comment, that probably would be efficient  
19 and helpful.

20 DR. PEARSON: Yes.

21 MS. LANG: Not that I wouldn't have to try  
22 and submit comments, I thought we were going to have  
23 a discussion about each of these as we went along,  
24 but no, we're just going to score them? All right.  
25 Because at some point, because I think where CMS

00192

1 might really want to go in thinking about this  
2 framework and trying to create a framework that makes  
3 sense for the program is somewhere along the line to  
4 think, to take record of which things were most  
5 salient for a particular score would be helpful, and  
6 so if that's what you mean by comments, that would be  
7 great.

8 I think that in part, if part of what  
9 we're doing is also this Rorschach of trying to,  
10 putting a score on what we think the question is, but  
11 on the other hand if you would like us to, we can  
12 also do that.

13 DR. STRAUBE: Well, everybody presumably  
14 has already done that once.

15 MS. LANG: We did, but I was hoping we  
16 would come to some consensus.

17 DR. STRAUBE: I would have to agree with  
18 the chair's process because there are so many things  
19 on this list, we'd be here until next year discussing  
20 those, I think.

21 MS. FRIED: I have a question. One of the  
22 criteria that I used in scoring was determining what  
23 evidence is needed to help CMS make decisions, what  
24 evidence are you wanting to ask for in terms of some  
25 of these categories, and so if the evidence existed,



00193

1 even though somebody said it's a priority, I ranked  
2 it really low. For example, carotid stenting. There  
3 are currently NIH-funded trials, so why don't we wait  
4 until we get the outcome of those trials, so I ranked  
5 it low even though it's an incredibly important  
6 issue.

7 Use of electronic medical records to  
8 improve care and advance research in patient safety.  
9 The VA has done this and is doing this, so I ranked  
10 it low even though it's incredibly important. So I  
11 think there's just going to be a broad range, but  
12 that's how I approached these, was what, is there a  
13 gap or is there someplace we can look for to fill  
14 that gap.

15 DR. PEARSON: And I think that's one of  
16 the biggest variations that we find. Some of us may  
17 have knowledge about where research is ongoing or  
18 completed that would mean that you feel there is no  
19 gap, whereas others might say well, that's really  
20 important, and so I think that's one of the biggest  
21 issues that we lack in terms of information about  
22 adequate reprioritizing, is where are the gaps, and  
23 we don't know. Yes.

24 MS. LANG: And I wanted to share with the  
25 group, one of the things that the National Library of

00194

1 Medicine is engaged in at this point is the  
2 expansion, working to expand a database called the  
3 BB Gap, which is basically a genomic database in one  
4 of the topic areas, it has to do with the feasibility  
5 of developing a voluntary database for genomic-wide  
6 association studies. This is the BB Gap database.  
7 At the moment it has genomic data, for example, for  
8 the entire Framingham study population, all three  
9 cohorts. This is an incredibly rich database and  
10 it's available for free for all researchers, you  
11 know, and it's only one of several databases of the  
12 sort that could create a meaningful starting point  
13 for a lot of meaningful research in the public  
14 domain.

15 And I guess the other piece that I would  
16 say is that I tried to score those things where I  
17 thought we needed to establish federal priorities  
18 because I thought someone had figured out there was  
19 money in it or potentially money in it. And so if  
20 that's the case we all need to collaborate, and it's  
21 nice for us to work together and it would be good if  
22 we coordinated the way we shared data, collected  
23 data, made data available afterwards, and perhaps  
24 what we're doing with the clinical trials database  
25 might help do that in the long run, another project

00195

1 the library is involved in.

2 You know, it seemed, it wasn't clear to me

3 for whom this will ultimately be an important set of

4 priorities, is this national priorities or

5 specifically federal not-for-profit priorities or the

6 like.

7 DR. PEARSON: Yes.

8 MS. FRIED: Several of the questions say

9 is this cost effective or should we do research on

10 this certain treatment and is it cost effective, and

11 that's outside the realm of the law, the reasonable

12 and necessary at this point. And so the way those

13 questions are worded, I would urge people to sort of

14 think more like is this effective research or

15 comparative to other modalities, versus is it cost

16 effective, because I think that becomes a problem.

17 At least for me it becomes a problem for the scoring.

18 DR. PEARSON: All right. I think we still

19 will have some conversation definitely about the

20 process and ways of moving forward. Why don't we go

21 ahead and do our rankings, okay? So what we're going

22 to do is everybody is just going to run down the list

23 again, look at the score you gave it the first time,

24 we'll have at least ten minutes, we'll see how long

25 it takes everybody to do this, but think through each

00196

1 of these topics with all of the conversation today in  
2 mind and see if you want to change your score. Put  
3 down a score even if it's the same one, and then  
4 staff will come around and collect it from each of  
5 us. So we will spend a target ten minutes, and see  
6 how long it takes to do that.

7 Actually if the audience wants to take a  
8 break at this point, that's a great time for it. Try  
9 to reconvene at 2:15.

10 (Recess, during which panelists completed  
11 scoring on sheets provided, which were collected by  
12 staff.)

13 DR. PEARSON: For probably I'm guessing  
14 between 15 and 30 minutes, return to the topic of the  
15 process, because I know that CMS is very eager to  
16 learn from this 1.0 approach, even though this is the  
17 second MedCAC meeting. It's still something that all  
18 organized healthcare systems and disorganized  
19 healthcare systems struggle to do well. So more  
20 reflections on what would have made this a better or  
21 easier process, other suggestions either for the  
22 framing of the priorities that we received or  
23 anything else that you think would be of use to CMS  
24 moving forward, I know that they would appreciate it.  
25 Sean.

00197

1 DR. TUNIS: I have a couple of suggestions  
2 that I think have come up in some form or other  
3 throughout the day, but I think what is going to  
4 eventually have to occur, you know, is that there's a  
5 step or two probably missing that will have to  
6 precede a group like this trying to rate the  
7 importance of studies.  
8 And one is that there's going to be need  
9 to be some very content expert, clinical experts,  
10 research experts, et cetera, in a very focused area  
11 who really understand the state of the art in the  
12 field both clinically and scientifically, who can  
13 sort of focus in a particular area and identify, say,  
14 the eight or ten questions in that topic area. So  
15 you know, interventions for treatment of coronary  
16 artery disease, or imaging for oncology or something.  
17 And that, you know, to come up with the initial set  
18 of important unanswered questions.  
19 And there's two sort of models that strike  
20 me as a lot of this work, the preliminary work sort  
21 of already being done that you could hitchhike off  
22 of. One is and, you know, I've sort of talked about  
23 this with other folks, but whenever AHRQ does a  
24 systematic review of all the existing evidence on a  
25 particular topic like treatment of early stage

00198

1 prostate cancer, they already have identified  
2 everything that's known, all the studies that are  
3 underway, and have some idea about what are the  
4 important gaps or important questions. So for  
5 example, our recent AHRQ review on treatment of early  
6 stage prostate cancer identified robotic-assisted  
7 surgery as important compared to, you know, surgical  
8 prostatectomy.

9 You know, we've talked a lot today about  
10 proton beam therapy versus IMRT versus brachytherapy  
11 for treatment of early stage prostate cancer. Those  
12 questions aren't on here, but AHRQ identified those  
13 questions through the systematic review process as  
14 important questions for additional research. So I  
15 would think as a starter is, you take the last ten  
16 systematic reviews that AHRQ has done and look at  
17 their future research needs section, and then you  
18 have a pretty good head start on a fairly systematic  
19 way of identifying at least a subset of important  
20 questions.

21 And the other place to go that's quite  
22 similar, perhaps even better, I don't know how many  
23 professional societies do this, but the American  
24 College of Cardiology, American Heart Association  
25 does these appropriateness guidelines where they

00199

1 score specific clinical indications on a score of one  
2 to nine as appropriate, uncertain or inappropriate.  
3 Those are done in an evidence-based way and it seems  
4 to me like that middle group of uncertain specific  
5 clinical indications would be a great place to go to  
6 find potential important research questions. And,  
7 you know, they assemble those panels with all the  
8 right experts who know the research, know the  
9 clinical stuff.

10 So it seems to me, I think you would  
11 actually not have to reinvent a big chunk of the  
12 wheel and actually go harvest from several different  
13 things like that to get a good head start.

14 DR. PEARSON: Good, thank you. Yes, Lisa.

15 MS. LANG: Similarly --

16 DR. PEARSON: Wait. I'm sorry, I had the  
17 wrong name. I thought of you, but go ahead.

18 MS. FRIED: I will be really quick. At  
19 the October meeting we had several representatives  
20 from the various institutes of health, and actually I  
21 was somewhat disappointed that some of them spoke  
22 about their specialty when in fact I thought they  
23 would be representing their institute priorities in a  
24 broader fashion. So what would be great is if we  
25 were to do this again, is have the various institutes

00200

1 of health come and tell us what they're seeing as  
2 their research priorities and gaps in getting  
3 coverage, representing various members of the  
4 Medicare beneficiary population.

5 DR. PEARSON: Now, Lisa.

6 MS. LANG: It's actually now two thoughts.

7 One was an additional source to piggyback on what  
8 Sean is saying. The CDC actually recently released  
9 within the last few months a very comprehensive set  
10 of basically research agenda. And one of the  
11 concerns I had looking at the materials that we  
12 received was the extent to which any of the research  
13 deliberation, the questions got integrated into this,  
14 and I would suggest that if you move in the direction  
15 of bringing people from the institutes to a setting  
16 like this, that again, you make the discussion groups  
17 balanced between the researchers, maybe folks out in  
18 academia themselves, and the people from the clinical  
19 society at a minimum core, you know, and then  
20 interested others.

21 Because I think what comes, the way to  
22 identify some of the underlying value discussions  
23 that occur, you know, important to whom, risk of  
24 what, you know, assessment of how a particular topic  
25 merits ranking in the listing of other similarly



00201

1 interesting or important topics, I think the synergy  
2 that comes from having a diverse group rather than a  
3 single clinician from an institute I think would  
4 serve this process and make it a stronger product.

5 DR. PEARSON: Nora.

6 DR. JANJAN: As additional resources, I  
7 would suggest that you consider the AMA Physicians  
8 Consortium for Quality Improvement of which CMS is  
9 participating, because they're creating performance  
10 outcome measures for clinicians, and you could as  
11 part of that process say what areas are indeterminate  
12 as you develop these measures, why can't we have, you  
13 know, what questions were you unable to include  
14 within those performance measures, because the data  
15 does not exist.

16 Likewise there are warehouse guidelines  
17 out, there's a guideline warehouse where all of the,  
18 you know, for example on ABI or some of the questions  
19 that we were asked here, we should cross-reference to  
20 existing guidelines to see if those exist, and if  
21 they do exist, there shouldn't be a question because  
22 that should be standard of care.

23 So I think, you know, and the American  
24 College of Radiology also has appropriateness  
25 guidelines that I just chaired the section on bone

00202

1 metastases. But they update those every year to two  
2 for clinical scenarios, and you might see where they  
3 are unable to come to consensus.

4 So I would agree with Sean that there are  
5 a lot of resources out there that establish standard  
6 of care, and if you're not getting that and as we  
7 develop performance measures, pay for performance,  
8 you're going to get a lot of data from that, why  
9 aren't we adhering to standard of care guidelines.

10 DR. PEARSON: Yes.

11 DR. ALVING: It might be interesting to  
12 even just step back and do sort of a strategic plan,  
13 and I'm a little bit allergic to that term but  
14 sometimes it's useful, or let's say an implementation  
15 plan of how you will do this process, and bringing  
16 in, again, you know, economists or whomever, and you  
17 could describe to the public, this is how we will go  
18 about getting this information. And I would say in  
19 these certain, you know, identify, and you could say  
20 that you're going to identify broad areas,  
21 cardiovascular, oncologic, and then the kinds of  
22 questions that would be addressed overall but in a  
23 very generic fashion, and then ask the experts in  
24 those areas to come up with what they think are the  
25 major questions and what needs to be done. But

00203

1 again, and then providing it according to certain  
2 criteria that we discussed earlier, quality of life,  
3 et cetera, et cetera, and cost, let's say the value.  
4 But if you could -- and then you could  
5 work with this plan maybe with CDC, NIH, FDA,  
6 Economists Society, just as a generic this is how  
7 we'll go forward. Because you're going to want to be  
8 doing this for as long as CMS exists, which I  
9 understand is what, 2019?

10 (Laughter.)

11 So that's about a ten-year strategic plan.

12 DR. STRAUBE: 2019 unless we do cost  
13 effectiveness.

14 (Laughter.)

15 DR. STRAUBE: That was a joke.

16 DR. JANJAN: I would suggest strongly,  
17 though, that this be patient-centric, not NIH bench  
18 research-centric, because CMS delivers to the  
19 patient. And while the bench research is important,  
20 you know, to translate data and the translational  
21 loop of the things, that's what the NIH is for. CMS  
22 is here to serve the public, it's a direct link to  
23 the public, and I would strongly recommend, you know,  
24 you're the interface between what gets approved at  
25 FDA and what goes to the patient.

00204

1 And I would strongly also get FDA involved  
2 with this process, because I think that one approval  
3 process or that one discussion period is absolutely  
4 critical for all stakeholders. I know as a  
5 clinician, if there's something FDA-approved but it's  
6 not covered, you know, it's like why not. It gets  
7 very confusing and it's confusing to patients and  
8 then they get frustrated, and they have enough burden  
9 of disease, they don't need these other burdens on  
10 top of it.

11 DR. PEARSON: Linda.

12 DR. BERGTHOLD: Just a little point, that  
13 it really should be beneficiary-centered, because not  
14 everyone's a patient. Remember, we have a fairly  
15 healthy group of people out there.  
16 I was also going to suggest that we look  
17 to other countries, because we're so ethnocentric  
18 here in this country. We think we have to invent  
19 everything and in fact the U.K. with their nice  
20 organization, their clinical excellence, and  
21 Switzerland and France and Germany, they've all done  
22 all kinds of prioritization processes. Some would  
23 not be suitable for us but others might. I mean, it  
24 would be worth a Google search for sure.

25 DR. PEARSON: I was going to have a few

00205

1 comments while people are thinking about this. I  
2 didn't want in today's process to get lost what I  
3 thought was very valuable conversations at the  
4 beginning of the day where we helped explore the  
5 types of evidence that are often missing for  
6 decision-making across the board again, and I think  
7 that that's an important process that CMS can  
8 continue to do going forward with more MedCACs  
9 associated like the one around age-related macular  
10 degeneration.  
11 I think you're going to have one on stroke  
12 rehabilitation as well, where you're going to try to  
13 get people together to decide what are the outcomes  
14 of interest, how do we measure them best, how should  
15 studies be designed to help provide the evidence that  
16 we and others need. And to do that, I think more  
17 often in different clinical areas on a regular basis  
18 I think would be a very positive thing you could do  
19 to help close the evidence gap.  
20 Another was the importance of getting out  
21 in front as often as you can with national coverage  
22 decisions to try to open up more opportunities, and  
23 by opening up I actually mean closing some doors, to  
24 keep the doors open to evidence generation. Because  
25 sometimes too early a decision, a yes, if you will,

00206

1 will just flood the clinical field in a way that  
2 makes it very hard to do the kinds of studies that  
3 decision-makers like CMS and others, and patients  
4 really need.  
5 For instance, I know Sean and his Center  
6 for Medical Technology and Policy have been working  
7 with multiple stakeholders to try to get a CED  
8 program set up should CMS decide to say yes, if  
9 there's a study. And those kinds of efforts really  
10 need CMS to be ahead of the curve enough to be able  
11 to say yes, if we were to get that kind of evidence  
12 flowing.  
13 Two other things I wanted to mention. One  
14 is, I'm not sure, but in your own NCDs, do you make  
15 research recommendations? I don't think you do. Do  
16 you sometimes? You may want to think about ways to  
17 really beef that up, because again as I think Sean  
18 said, often it's out of that deep drill down that TEC  
19 assessment groups go through and coverage  
20 decision-making groups go through, that you really do  
21 get a very firm handle on where the research in the  
22 future could be most definitive. And so making that  
23 as explicit as possible will also help I think  
24 clarify the threshold for reasonable and necessary,  
25 and CED for others kind of indirectly by reading

00207

1 where you think the research needs to be done and  
2 specifically what kinds of studies perhaps might be  
3 more useful.  
4 And the last comment I was going to make  
5 was I found this process, echoing others, very  
6 unsettling trying to rate these things, for all of  
7 the reasons that we talked about. We don't know  
8 this, we only kind of have a small piece of the  
9 information there, we know we have personal biases  
10 here all over the place. And in a way I wanted to  
11 say that personally I think CMS should prioritize its  
12 needs.  
13 I'm not sure that the right thing is to  
14 try to bring us together to try to bring in all the  
15 different perspectives, include in the NIH, include  
16 in patients and doctors, because those voices are out  
17 there. CMS is a public insurer, the most important  
18 one obviously we have, and I think its voice needs to  
19 be heard. I would have loved to have had the CMS  
20 Coverage and Analysis Group up here thinking out loud  
21 about what research they think they need. I think  
22 ultimately, you know, there are voices from the  
23 discovery community, from the patient community, from  
24 the clinician community.  
25 I think we need to have a strong voice

00208

1 from the CMS community, because they will help  
2 balance the views that Mark was bringing up earlier.  
3 You know, there's a lot of interest in discovery, how  
4 do we bring the clinical research that's needed into  
5 some kind of balance as we think about funding  
6 research overall. So whether that's the right  
7 political strategy or not, still, I think there is a  
8 value to having a clear, crisp CMS voice in this, and  
9 I'm not sure this is the best process to get to that.  
10 Other comments? Barry's going to have summary  
11 comments as well, so Sean?  
12 DR. TUNIS: I'll just make one last point.  
13 Really building on some of the stuff you said, Steve,  
14 which I think is quite good, is that, you know, first  
15 of all, while there's been lots of bumps in the road  
16 with application of the conditional coverage CED and,  
17 you know, I still think it's potentially a powerful  
18 tool and I think should be used, but there are  
19 probably models where it could be used effectively,  
20 so I would obviously encourage CMS to continue to  
21 work to refine it.  
22 But one other variant, if you will, of CED  
23 is actually the local coverage process because things  
24 get covered locally, there's no national decision,  
25 and as long as you don't wait until all of the



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1 contractors are paying for something you still have  
2 the option of reviewing things at a national level  
3 and making a national policy. And as Steve was  
4 saying, if you were reasonably clear about what kind  
5 of evidence was expected around particular types of  
6 technologies while they're being covered at the local  
7 level, there would probably be some incentive on the  
8 part of the product developers and the provider  
9 community to do the studies knowing that CMS perhaps  
10 would be, you know, its decision to pursue a national  
11 coverage decision or not would depend on sort of how  
12 good the quality of evidence was developed while the  
13 local coverage was in place to sort of support the  
14 research.

15 So, you know, I think there's a certain  
16 almost, well, kind of an implied threat, if you will,  
17 that as long as people are developing the evidence  
18 with the coverage available at the local level, there  
19 won't be a need to do a national policy. But you  
20 know, you'd have to be sort of clear about what kind  
21 of evidence you want to see developed to kind of have  
22 that mechanism in place. So that's kind of a poor  
23 man's CED.

24 DR. PEARSON: Nora.

25 DR. JANJAN: That's why I suggested, you

00210

1 know, I strongly supported the coordination of FDA  
2 with CMS on this process. Because as I said before,  
3 so often the qualities are never evaluated of these  
4 clinical trials, you don't get economic analyses out  
5 of these clinical trials. You know, I know the FDA  
6 process is different than CMS, but if you're involved  
7 up front, then as these new agents, drugs or  
8 technologies are being developed, those data can be  
9 developed along with the effectiveness, and that is  
10 part of the effectiveness equation. So get all that  
11 data up front so that you're not chasing it later on.  
12 I really think if you integrate those two  
13 processes up front it will be easier for the folks  
14 developing this stuff, it will be easier for coverage  
15 determinations, and it will be easier. And then  
16 you've got the safety issue and the ongoing safety  
17 evaluation when it gets out to a broader market, a  
18 broader group of patients who get these new agents  
19 and technologies, that then you have a better sense  
20 of what should be covered and in what patient group.  
21 DR. PEARSON: All right. Thank you very,  
22 very much, everybody. Let's let Barry have some  
23 concluding words.  
24 DR. STRAUBE: Thanks, Steve, and thanks to  
25 the entire panel here today and to the audience and

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1 to other folks who made public comments via mail for  
2 this process.  
3 One, I've captured all the comments in a  
4 summary plus a lot that were made earlier, and you  
5 captured it on tape and we will have a transcript  
6 here.  
7 I think the next steps in my mind that  
8 we've talked about beforehand but we've done on the  
9 fly here, is first obviously we're going to collate  
10 the scores that you just came up with again. We will  
11 report back the results of those scores to the panel,  
12 and I think that what we ought to do when that gets  
13 reported back, it may be helpful to impose upon you,  
14 if you will, just to briefly respond maybe in terms  
15 of reactions and maybe codifying some of the comments  
16 here, or any other ones you can think of in terms of  
17 process improvement going forward.  
18 We'll take back the results and everything  
19 that has been discussed here today, and at a staff  
20 level in CAG we will analyze what's been said and try  
21 to delineate some next steps. We certainly don't  
22 want to set in stone what we will absolutely do  
23 today, but some of the things we have been thinking  
24 about is I think we do need to describe the process  
25 that went into this whole exercise better than we

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1 have in more detail, flaws or not. We'll just  
2 outline how we got to where we got to at the end of  
3 the day today.  
4 I think we have to then describe the  
5 findings. If we have comments from you all, we can  
6 incorporate those comments into the findings. And  
7 then we have to get into -- by the way, all of this  
8 description has to do an up-front thing of what we  
9 intend to use this for, some general set of  
10 principles on why we think this process is important  
11 and how we might use it.  
12 Then we can share in some way with the  
13 public, there are several different venues we could  
14 do that. The simplest would be posting it on our web  
15 site. I raised with Tamara and the rest the dreaded  
16 phrase, Federal Register notice, but that entails  
17 approval by the Office of Management and Budget and  
18 all sorts of other complicated things. So they've  
19 convinced me that the posting on the web site  
20 probably as a first step, and I think by posting we  
21 also need to include some ability then to seek public  
22 comment and get, in addition to the panel, the wide  
23 public comment that we always hear would like to be  
24 involved in the process more.  
25 I think that the suggestion about looking

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1 to other countries and looking to other arenas that  
2 have tried to grapple with this is very good. So we  
3 may be able in our posting to ask for comment about  
4 that. We certainly can do our own research prior to  
5 that, we may want to have somewhat of a preamble, if  
6 you will, that will tee that up.  
7 I think the other thing in that public  
8 posting that we might want to seek comment on is what  
9 Steve brought up, the types of evidence discussion  
10 that we had before, trying to get a better idea. We  
11 have not gone so far as perhaps Blue Cross Blue  
12 Shield Association does in terms of some of its very  
13 deliberative criteria. I think the Agency has done  
14 that intentionally, not wanting to get too boxed in  
15 to strict criteria that would result in a lot of  
16 noncoverage decisions. So we have to weight that but  
17 I think further defining what our criteria are for  
18 making coverage decisions will be helpful.  
19 Getting in front of the curve, I like that  
20 idea too. We've already chatted about parallel  
21 review, those discussions are ongoing, that's trying  
22 to get out in front of the curve in terms of talking  
23 to the FDA, and then the suggestion of including NIH  
24 was there too.  
25 And then after we get public comment and

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1 go through all those exercises, I think then we need  
2 to go back, take the results of collating all of that  
3 and then have next steps, and the next steps could  
4 range anything from nice try but this needs a much  
5 broader process and we have to kind of do it over  
6 again, or it could be we've gotten something out of  
7 this, here's what we think we've gotten and this is  
8 how we want to use it in the short term, or some  
9 combination thereof.

10 So Steve, I think that's what we would  
11 propose we do based on this MedCAC meeting, and look  
12 forward to coming up with some ideas.

13 DR. PEARSON: Great. Thanks, Barry, and  
14 again, thanks to the panel and thanks to the  
15 audience. I hope you've had a very nice stay, and a  
16 safe trip home.

17 (Whereupon, the meeting adjourned at 2:47  
18 p.m.)

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