

# NATIONAL QUALITY FORUM

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## SURGERY STEERING COMMITTEE

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THURSDAY, MAY 29, 2014

The Steering Committee met at the National Quality Forum, 9<sup>th</sup> Floor Conference Room, 1030 15<sup>th</sup> Street, N.W., Washington, D.C., at 8:00 a.m., Lee Fleisher and William Gunnar, Co-Chairs, presiding.

### PRESENT:

LEE FLEISHER, MD, University of Pennsylvania,  
American Society of Anesthesiologists,  
Co-Chair (in person and via telephone)  
WILLIAM GUNNAR, MD, JD, National Surgery  
Program Office, Veterans Health  
Administration, Co-Chair  
ANTHONY ASHER, MD, FAANS, FACS, Carolina  
Neurosurgery & Spine Associates  
ROBERT CIMA, MD, MA, Mayo Clinic  
RICHARD DUTTON, MD, MBA, Anesthesia Quality  
Institute  
ELISABETH EREKSON, MD, MPH, Dartmouth  
Hitchcock Medical Center  
FREDERICK GROVER, MD, University of Colorado  
School of Medicine  
JOHN HANDY, MD, American College of Chest  
Physicians  
MARK JARRETT, MD, MBA, North Shore-LIJ Health  
System\*  
CLIFFORD KO, MD, MS, MSHS, FACS, American  
College of Surgeons, UCLA School of  
Medicine, American College of Surgeons  
BARBARA LEVY, MD, FACOG, FACS, American  
College of Obstetricians and

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### Gynecologists

BARRY MARKMAN, Aetna  
 KELSEY McCARTY, MS, MBA, Massachusetts General  
 Hospital  
 LAWRENCE MOSS, MD, Nationwide Children=s  
 Hospital  
 AMY MOYER, The Alliance  
 KEITH OLSEN, PharmD, FCCP, FCCM, University of  
 Nebraska Medical Center, American  
 Society of Health-System Pharmacists  
 COLLETTE PITZEN, RN, BSN, CPHQ, MN Community  
 Measurement  
 LYNN REEDE, DNP, MBA, CRNA, American  
 Association of Nurse Anesthetists  
 GARY ROTH, DO, FACOS, FCCM, FACS, MHA Keystone  
 Center  
 CHRISTOPHER SAIGAL, MD, MPH, UCLA  
 ROBERT SARWIN, MD, MS, Seattle Children=s  
 Hospital, Organization of Children=s  
 Hospital Surgeons-in-Chief  
 ALLAN SIPERSTEIN, MD, Cleveland Clinic  
 LARISSA TEMPLE, MD, Memorial Sloan-Kettering  
 Cancer Center  
 A.J. YATES, MD, University of Pittsburgh  
 Medical Center

### NQF STAFF:

HELEN BURSTIN  
 ANN HAMMERSMITH  
 VY LUONG  
 ANDREW LYZENGA  
 AMARU SANCHEZ  
 REVA WINKLER

ALSO PRESENT:

MATT BRENGMAN  
KEZIAH COOK \*  
DEBORAH DEITZ  
ELIZABETH DRYE  
CAROLINE GALLAHER \*  
LEIN HAN  
JEFF JACOBS  
JOHN MORTON \*  
SEAN O=BRIEN  
DONNA SLOSBURG \*  
LISA SUTER  
KIM WOOD \*

\*present via telephone

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P-R-O-C-E-E-D-I-N-G-S

8:00 a.m.

CO-CHAIR FLEISHER: I want to thank everybody for a great first day of the meetings. I think we're starting to get some clear signals of how this committee is thinking and I think there's a lot of thought processes that I certainly and I know the NQF staff will take up to CSAC.

What's important is the thought processes that you have over things like the temperature measures and others of how you think about reserve is actually probably the critical thing. Because people are still wrestling with these issues and recognize again from yesterday that we are the approvers of measures. We do worry about how people use them but it's actually out of our hands in how people use them.

So, just a recap of what we recommended and what we did not. Importantly we did not

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1 recommend urinary catheter removal, the  
2 vaginal suspension at the time of hysterectomy.  
3 The perioperative temperature management was  
4 withdrawn. The antibiotic timings were put on  
5 reserve for three of them. The SCIP measures  
6 were all put on reserve.

7 The clinician antibiotic selection,  
8 there was no consensus. The antibiotic timing  
9 readministering clinician was deferred, and  
10 the discontinuation was put on reserve.

11 We have a lot of things to get through  
12 today. The goal for me is to be done at 3:30.  
13 The latest is 3:45 per the agenda so we will get  
14 started.

15 MS. WINKLER: We have a couple of  
16 measures that are carrying over from yesterday,  
17 but we're going to do them after we do the first  
18 two measures on mortality for CABG. So the  
19 first measure we're going to do is measure 0119,  
20 Risk-adjusted Operative Mortality for CABG.  
21 That's the STS measure. You guys here?

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1           Okay, we're going to flip the order of  
2           these measures and do 2558, the Hospital 30-day  
3           All-cause Risk-standardized Mortality Rate  
4           Following CABG.     This is a new measure  
5           submitted by CMS.

6           CO-CHAIR FLEISHER:   And I acknowledge  
7           that Dr. Grover has chosen to recuse himself  
8           given that this is a competing measure to the  
9           STS measure.

10           Who is actually the primary reviewer?  
11           Not here yet?   Okay, who's the secondary?  
12           There was no secondary.   Dr. Jacobs is here?  
13           Would you mind starting and hopefully the  
14           reviewer for the CMS measure -- if you don't  
15           mind?

16           So we are going to start with 0119.   I  
17           am actually the primary and Cliff is the  
18           secondary.

19           DR. JACOBS:   Good morning, everybody.  
20           And the first measure we're doing this morning  
21           is risk-adjusted operative mortality for

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1 coronary artery bypass grafting. And this is  
2 a measure that reports the percentage of  
3 patients aged 18 or older undergoing isolated  
4 coronary artery bypass grafting who die,  
5 including both all deaths occurring during the  
6 hospitalization in which the coronary artery  
7 bypass grafting was performed even if after 30  
8 days, and second, those deaths occurring after  
9 discharge from the hospital but within 30 days  
10 of the procedure.

11 So that=s the standard definition of  
12 operative mortality. And this basically  
13 reports risk-adjusted operative mortality  
14 after isolated coronary artery bypass  
15 grafting.

16 Advantages of this measure include the  
17 fact that it=s derived from a clinical data set.  
18 So the denominator of patients undergoing  
19 isolated CABG is a relatively pure denominator  
20 because of the clinical nomenclature utilized  
21 to isolate the patients undergoing isolated

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1 CABG. And also the clinical nomenclature  
2 allows for a fairly sophisticated risk  
3 adjustment.

4 And I guess with that introduction I=d  
5 turn it over to the discussion and questions.

6 CO-CHAIR FLEISHER: Great. If we  
7 could go through the criteria. The evidence.  
8 This is probably one of the strongest from an  
9 evidence perspective. Multiple papers over  
10 the years since 1990 outlining the development,  
11 validity and predictive value of this database.

12 MS. WINKLER: This is an outcome  
13 measure so the criteria for evidence for an  
14 outcome measure is whether there=s a rationale  
15 to support the relationship of this outcome to  
16 at least one healthcare structure, process,  
17 intervention, or service.

18 CO-CHAIR FLEISHER: That makes it  
19 simple. Any comments? Can we vote?

20 MR. SANCHEZ: Voting will now begin  
21 for subcriterion 1a evidence. One is yes, two

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1 is no. The voting timer starts now.

2 We have 20 for yes, zero for no.

3 CO-CHAIR FLEISHER: So, performance  
4 gap. This is well defined in the measure.  
5 Considerable variation from the 10th  
6 percentile of 0.89 to the risk-adjusted rate of  
7 1.67 in the latest data set from June 2012 with  
8 quite a bit of variation depending on race and  
9 gender.

10 Any comments, questions? Can we  
11 vote?

12 MR. SANCHEZ: Voting will now begin  
13 for subcriterion 1b performance gap. One is  
14 high, two is moderate, three is low, four is for  
15 insufficient. The timer starts now.

16 We have 15 for high, 5 for moderate,  
17 zero for low and zero for insufficient.

18 CO-CHAIR FLEISHER: Next criteria is  
19 high priority. Addresses a specific national  
20 health goal priority. Certainly mortality,  
21 important. I don=t think there=s much else to

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1 say. Anybody? No comments, okay. Let=s  
2 vote.

3 MR. SANCHEZ: Voting will now begin  
4 for subcriteria 1c high priority. One is high,  
5 two is moderate, three is low, four is  
6 insufficient. The timer starts now.

7 We have 19 for high, 1 for moderate,  
8 zero for low and zero for insufficient.

9 CO-CHAIR FLEISHER: Reliability. We  
10 heard a lot about how this has been tested over  
11 the years from the STS database and how -- and  
12 the data sources, the auditing via the STS  
13 database.

14 Do you have any comment?

15 DR. JACOBS: I think yesterday we  
16 covered the penetrance of the STS database  
17 which is about 90 to 95 percent of all programs  
18 in the country doing coronary artery bypass  
19 grafting. And we also discussed in detail the  
20 audit process to confirm the completeness and  
21 accuracy of the data. I can answer any

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1 questions about that if anybody has any.

2 CO-CHAIR FLEISHER: I guess in  
3 relationship to the next measure do you know  
4 what percentage of all cardiac surgeries?

5 DR. JACOBS: I do. So, when we look  
6 at the percentage of all programs, first, we  
7 know that the penetrance has increased every  
8 single year so that at this point in time  
9 depending on what we consider the denominator  
10 of programs it=s between 90 to 95 percent of  
11 programs in the country.

12 And as far as cases go the percentage  
13 of cases is higher than that because the  
14 programs that we=re missing are lower-volume  
15 programs. So, therefore I would say the  
16 percentage of programs is 90 to 95 percent and  
17 the percentage of cases I would probably say is  
18 right at 95 percent.

19 CO-CHAIR FLEISHER: Questions or  
20 comments?

21 MS. WINKLER: I=d like to -- if

1 everybody else is done. A couple of questions  
2 on specifications, particularly as we know  
3 we're going to look at another measure that's  
4 very similar.

5 In this particular case this is data  
6 that's submitted to the database. What are the  
7 specifications around capturing death in  
8 operative mortalities? Which deaths do get  
9 submitted? Which ones might not? Since you  
10 are focusing in on operative mortality who  
11 makes the assessment of whether a death is  
12 appropriate to submit as operative mortality or  
13 might not be.

14 DR. JACOBS: Right. Well, I think  
15 we've published several manuscripts that  
16 clearly define the criteria of operative  
17 mortality right down to the very minute of the  
18 30-day cutoff.

19 So one is if you die before you go home  
20 from the hospital that's clearly a definitive  
21 death. And the other one is 30 days from the

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1 date of surgery with a clock that turns over at  
2 midnight the day after surgery. So those  
3 definitions are pretty tight and specified and  
4 subject to a fairly aggressive audit.

5 The cause of the mortality is not  
6 considered so it=s all causes whatsoever.  
7 Because that could start a slippery slope if you  
8 say only deaths related to the operation  
9 itself. And it=s all-cause mortality.

10 Which if you take it to the ultimate  
11 extreme, if you have a coronary artery bypass  
12 graft operation, you go home on day 7 and you=re  
13 hit by a car walking across the street on day  
14 15 and die, that=s an operative mortality.

15 MEMBER DUTTON: It may be that your  
16 cognitive dysfunction caused you to be hit by  
17 the car of course, so it could be an operative  
18 mortality.

19 DR. JACOBS: And therefore it is.

20 MEMBER DUTTON: Yes. No, I totally  
21 applaud the all-cause mortality. It is

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1       difficult to capture deaths post discharge in  
2       some patients. And I wanted -- I know you  
3       devote abstracter time to doing that and you  
4       work very hard at it. What percent do you think  
5       you get?

6               DR. JACOBS: Right, so we've looked at  
7       this quite closely and we've added fields in the  
8       database to capture not only vital status at 30  
9       days but beyond capturing vital status at 30  
10       days the method of documenting that vital  
11       status.

12               There's a field in the database that  
13       says how do you know they were alive at 30 days.  
14       Was it because you saw them in the office? Was  
15       it because a referring cardiologist saw them in  
16       the office? Was it because you called their  
17       home? So we go to that level of detail and then  
18       we confirm that at the level of audit.

19               And I would say from our audit process,  
20       our adjudication process and from the  
21       methodology we use to confirm vital status by

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1 linking with the Social Security Death Master  
2 File the accuracy of discharge mortality is  
3 well over 99 percent. And I think the accuracy  
4 of 30-day mortality probably is between 98 and  
5 99 percent. So both quite good.

6 Clearly, as you're alluding to,  
7 discharge mortality is more complete than  
8 30-day mortality, but both are extremely good.

9 CO-CHAIR GUNNAR: So I'd be  
10 interesting in Dr. Handy's thoughts. The  
11 perspective from -- at least my perspective is  
12 that 30-day all-cause mortality is an accepted  
13 definition. It extends across all  
14 specialties.

15 The oddness here, and it's been  
16 historical in the STS, is if I have the patient,  
17 he's in the hospital and he stays for six months  
18 but he never leaves and he dies, it's applied  
19 to your mortality rate which does a couple of  
20 things.

21 It takes many more patients out of the

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1 reporting cycle so you have to almost go back.

2 And so there=s some mechanics about that.

3 And the second is that there=s  
4 disparities between hospitals depending on how  
5 good they are at offloading patients who may  
6 need a lower level of care but don=t go home.  
7 So if you=re able to send a patient to a rehab  
8 center or to some ventilator center they=re  
9 discharged from the primary facility but they  
10 really died a related death which is what you=re  
11 trying to capture.

12 So I guess my question has always been  
13 has STS looked at going back and sort of  
14 harmonizing that with the same data definition  
15 that=s used across all surgical fields which is  
16 all-cause 30-day mortality.

17 DR. JACOBS: Right. So the reason we  
18 use operative mortality instead of that which  
19 is kind of a standard definition for most  
20 surgical training programs and for most  
21 surgical databases is because it eliminates a

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1 kind of perverse incentive that if you have a  
2 clearly very ill patient that=s going to die to  
3 keep them alive till day 31.

4 And by having survival to discharge it  
5 eliminates this incentive to say, okay, we=ve  
6 got somebody who=s dying and it=s day 28 but  
7 we=re going to put a trach in, put a PEG in, keep  
8 him alive and get him going till 31 days.

9 And I think in our training program as  
10 cardiac surgeons the definition of operative  
11 mortality is a fairly standardized definition  
12 that=s been in our literature since the  
13 beginning of cardiac surgery.

14 And we actually have mechanisms in  
15 place right now that allow for the fact that if  
16 somebody dies in an acute care facility where  
17 the surgery did not take place that=s still an  
18 operative mortality.

19 CO-CHAIR FLEISHER: So, attribution  
20 is to the original site.

21 DR. JACOBS: Absolutely. Just like

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1 the readmission measure, same concept.

2 CO-CHAIR FLEISHER: Okay. And  
3 secondly, to your question, you have a date of  
4 death?

5 DR. JACOBS: Yes.

6 CO-CHAIR FLEISHER: So that if there  
7 was ever harmonization with the other measures  
8 you could get to 30-day all-cause mortality,  
9 not just --

10 DR. JACOBS: Absolutely. That=s a  
11 variable that=s in our database and that=s  
12 quite accurate.

13 CO-CHAIR FLEISHER: So that actually  
14 is useful from the perspective of you in a  
15 clinical registry.

16 And do you know how many additional  
17 variables you have compared to what=s on the  
18 discharge summaries, what=s on the  
19 U-BOLTS-92s?

20 DR. JACOBS: Right. So I think -- I  
21 couldn=t give you a number. What I do know is

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1       that the clinical database allows for creation  
2       of a cohort of isolated CABG which is much more  
3       pure than one would get from trying to identify  
4       the cohort of patients undergoing isolated CABG  
5       from a billing database.

6               And that comes from a number of  
7       variables.       We can look at associated  
8       operations with the CABG.   We can associate --  
9       we can look at whether or not a ventricular  
10      assist device was planned versus unplanned and  
11      really create a very pure cohort of isolated  
12      CABG patients.

13             And I think when we talk about  
14      harmonization, harmonization across discharge  
15      date versus 30 days is a relatively easy thing.  
16      The challenge is harmonizing across the  
17      definition of the denominator.

18             And that I think is the big strength  
19      of using a clinical registry to identify this  
20      cohort.   Number one, defining the denominator  
21      appropriately, and number two, having precise

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1 variables to do meaningful risk adjustment  
2 which are variables that really aren't in a  
3 billing database.

4 CO-CHAIR FLEISHER: Do you know how  
5 many variables are in the model and how many are  
6 not available in a billing database? Do you  
7 know that?

8 MR. O'BRIEN: I'll have to recount but  
9 I'd say around 30 variables in the model and in  
10 terms of the variables available in billing  
11 data, I mean, basically an ICD-9 diagnostic  
12 code for thousands of conditions. So I don't  
13 know if you can count it that way.

14 CO-CHAIR FLEISHER: Fred, any chance  
15 you know the answer to that specific question?

16 MEMBER GROVER: I don't know the  
17 answer to that specific question. It's not  
18 just the variables but it's the definitions.

19 In other words, in the timing if  
20 somebody has an MI and they're in the hospital,  
21 they weren't admitted with that diagnosis.

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1       They have an MI. You operate on them two days  
2       later, that=s very important in terms of the  
3       risk adjustment model. So you=ve got to have  
4       that level of detail.

5               CO-CHAIR GUNNAR: The other is my  
6       understanding is that the variables actually  
7       that force the model change every three years  
8       when you reset the model. So that you have a  
9       whole bunch you can -- a couple hundred you can  
10      look to but that would --

11             DR. JACOBS: So the fields in the  
12      database and their definitions are modified  
13      every three years as part of a database upgrade  
14      process. The actual variables used within the  
15      model have stayed relatively constant.

16             So, the fields in the database change  
17      and that allows us to do a variety of other  
18      quality improvement and research initiatives.  
19      But when it comes to which of those fields are  
20      used for this model we=ve tried to maintain  
21      consistency within that subset of fields over

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1 time.

2 CO-CHAIR FLEISHER: Other questions?  
3 Shall we vote?

4 MR. SANCHEZ: Voting will now begin  
5 for subcriteria 2a reliability. One is high,  
6 two is moderate, three is low, four is  
7 insufficient. The timer starts now.

8 We have 16 for high, 5 for moderate,  
9 zero for low and zero for insufficient.

10 CO-CHAIR FLEISHER: Okay. Validity.  
11 And we've heard a lot about testing. Do you  
12 want to make any further comments?

13 DR. JACOBS: I think it's the same  
14 discussion we had yesterday with 10 percent of  
15 the sites getting audited every year.

16 And we know that these particular  
17 fields that go into the risk-adjusted mortality  
18 measure are amongst the most complete and  
19 accurate fields in the database.

20 CO-CHAIR FLEISHER: Okay, so risk  
21 adjustment. Any comments on risk adjustment?

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1 I mean, you=ve had multiple papers on  
2 this and I find probably one of the best  
3 risk-adjusted models available. And I=m  
4 trying to remember, I actually unfortunately  
5 did not bring what your C statistic is in your  
6 model. MR. O=BRIEN: I think the C statistic  
7 is in the low eighties, like 0.80, 0.81  
8 depending on the data set.

9 CO-CHAIR FLEISHER: Questions on  
10 validity or on risk adjustment in this model?  
11 We can vote.

12 MR. SANCHEZ: Voting will now begin  
13 for subcriterion 2b validity. One is high, two  
14 is moderate, three is low, four is  
15 insufficient. The timer starts now.

16 We have 19 for high, 2 for moderate,  
17 zero for low and zero for insufficient.

18 CO-CHAIR FLEISHER: Feasibility. So  
19 I think the feasibility is -- perversely this  
20 is -- data collection is difficult in that it=s  
21 actually a nurse-driven protocol. It=s

1 actually a clinical registry.

2           However, they have between 90 and 95  
3 percent penetrance because basically the  
4 hospitals are paying to be part of this data set  
5 uniquely which I think many other data  
6 registries are having difficulty replicating  
7 this because of the resources necessary.

8           In fact, that=s probably the biggest  
9 issue that I=ve heard is whether hospitals can  
10 continue to maintain the infrastructure needed  
11 to actually complete this data set.

12           DR. BURSTIN: This is a question for  
13 Jeff and Sean. From conversations with Frank  
14 Opelka he tells me there=s actually been an  
15 effort to define the EHR elements associated  
16 with the registry. I think that would be  
17 helpful for the feasibility discussion going  
18 forward.

19           DR. JACOBS: Absolutely. STS is  
20 involved in ongoing efforts to collaborate with  
21 leading vendors of electronic health records to

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1 develop a methodology where an EHR can be linked  
2 to the STS database and allow direct  
3 importation of whatever fields one could get  
4 out of the EHR.

5 That=s an initiative that=s important  
6 to STS to minimize data entry burden but to  
7 assure the completeness and accuracy of the  
8 data through a direct EHR import.

9 MEMBER HANDY: So, from the leading  
10 vendors what percent of the data could be  
11 directly abstracted? Do you have an idea at  
12 this point?

13 DR. JACOBS: I think it would be too  
14 early to say because it involves harmonization  
15 of definitions and adding certain precisely  
16 defined fields into the EHR that the vendors  
17 maintain. So I don=t think we could give an  
18 exact number yet.

19 But some things are pretty obvious and  
20 easy like name, date of birth, date of surgery,  
21 weight and height. Some things are a little

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1 more challenging like the presence or absence  
2 of preoperative renal failure, the presence or  
3 absence of preoperative pulmonary dysfunction.  
4 And that=s just a matter of harmonizing with the  
5 EHR. And that=s an ongoing process. I think  
6 it=s a little too early to answer that question  
7 with an exact number.

8 MR. SHAHIAN: This is Dave Shahian.  
9 Can I make a comment?

10 CO-CHAIR FLEISHER: Sure. Please,  
11 Dave.

12 MR. SHAHIAN: Yes. We actually have  
13 a day-long meeting planned for later this  
14 summer with a major EHR vendor. And we=ve been  
15 thinking quite a bit about this issue over the  
16 past few years.

17 As Jeff has correctly pointed out  
18 there are some things that will be no-brainers.

19 But the thing that makes a clinical  
20 database like the STS registry unique is the  
21 granularity and specificity of its data

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1 elements and the standardization across the  
2 country.

3 That distinguishes it from EHRs in  
4 which the data collected are generally not  
5 standardized and don't have that degree of  
6 granularity.

7 We have to be able to do what we're  
8 doing with the STS database. We have to be able  
9 to know that something selected as post  
10 operative renal failure in Massachusetts means  
11 the same thing as it does in San Diego.

12 So, you know, it's probably somewhere  
13 a little south of 50 percent I would guess that  
14 are actually going to be able to be extracted  
15 from an EHR. But even that would substantially  
16 reduce data collection burden. So we're  
17 working hard in that area.

18 CO-CHAIR FLEISHER: Other questions?  
19 Comments? Vote.

20 MR. SANCHEZ: Voting will now begin  
21 for criteria 3 feasibility. One is high, two

1 is moderate, three is low, four is  
2 insufficient. The timer starts now.

3 We have 10 for high, 11 for moderate,  
4 zero for low and zero for insufficient.

5 CO-CHAIR FLEISHER: Usability. It=s  
6 used for public reporting. It=s part of, what,  
7 Consumer Reports and Quality Benchmarks.

8 DR. JACOBS: Right. It=s publicly  
9 reported on two different websites. One is the  
10 Consumer Reports website and the other is the  
11 STS website. Consumer Reports provides web  
12 access that=s at an arm=s length from STS. And  
13 then the STS provides web access that is  
14 accompanied by educational literature provided  
15 by STS about risk adjustment and about the  
16 measures that we publicly report.

17 So this measure is used for public  
18 reporting. It=s also used for a variety of  
19 quality improvement initiatives. And  
20 therefore I think it has a fair amount of  
21 usability in all important domains.

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1 MS. WINKLER: Jeff, I haven't seen it  
2 recently. Do you happen to have a graph or data  
3 of the change over time in mortality of the  
4 database participants? I saw some earlier and  
5 it's quite impressive. So I was curious what  
6 the most recent data looked like.

7 DR. JACOBS: Yes, I think you're  
8 absolutely right. We've demonstrated a number  
9 of graphs over the years that have showed the  
10 dramatic decrease in risk-adjusted mortality  
11 after isolated coronary artery bypass grafting  
12 over time from the beginning of the database up  
13 until now.

14 And you're absolutely right that year  
15 after year it continues to decrease. The  
16 increments are a little less as the numbers get  
17 lower.

18 But I think that's one of the biggest  
19 arguments in favor of participating in a  
20 multi-institutional clinical registry is that  
21 participation in and of itself is potentially

1 associated with quality improvement as  
2 demonstrated by this measure.

3 CO-CHAIR FLEISHER: Do you know --  
4 it=s aggregated by program and participant.

5 DR. JACOBS: Right. So, it=s  
6 reported, stratified by two ways. Stratified  
7 by hospital and stratified by participant.  
8 The definition of participant is a practice  
9 group which rarely is an isolated surgeon, most  
10 commonly is a group of surgeons.

11 And most commonly the relationship  
12 between a hospital and a practice group is one  
13 to one. But sometimes one hospital will have  
14 more than one practice group and sometimes one  
15 practice group will go to more than one  
16 hospital.

17 So, by reporting both by practice  
18 group and by hospital one can then get at the  
19 differences in performance in the rare  
20 situations where a hospital has more than one  
21 practice group or a practice group goes to more

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1       than one hospital.

2                   CO-CHAIR FLEISHER:   And Sean, does it  
3       have the statistical power to actually comment  
4       by individual surgeon or not?   And then Jeff,  
5       you can comment whether you've chosen to do it  
6       by group because of a strategic decision.

7                   MR. O'BRIEN:       I think small and  
8       variable sample sizes are the challenge for a  
9       lot of outcome measures.   So that it has the  
10      ability to differentiate performance, at the  
11      extremes particularly.

12                   I think that it really depends on your  
13      choice of criterion, or identifying  
14      differential performance.   So when providers  
15      are classified in performance categories that  
16      it involves a tradeoff of kind of types of  
17      errors, false positive and false negative.

18                   When you do analyses to actually  
19      estimate the true amount of variability that  
20      exists, whether or not you can detect it with  
21      a given sample size, just asking the question

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1 of how much variability is there, it=s really  
2 a substantial amount of variability.

3 If you estimated the risk-adjusted  
4 mortality rates at the top 10 percent of the  
5 distribution compared to the bottom percent of  
6 the distribution that would be a 3 and a  
7 half-fold difference potentially, estimated  
8 difference between the outcomes at those  
9 extremes.

10 The STS approach uses a fairly  
11 conservative criterion for identifying  
12 outliers. And that could be increased by  
13 adjusting that criterion. So there=s a power  
14 to identify performance to the extremes.

15 DR. JACOBS: And I=d just like to add  
16 a little bit about the concept of reporting via  
17 hospital and practice group versus the concept  
18 of reporting by individual participant. And  
19 this discussion will apply to all of our  
20 measures because it=s going to come up  
21 repetitively with each measure.

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1           First of all, STS has traditionally  
2           and up till now chosen the strategy of reporting  
3           by hospital or practice group because we  
4           believe that the outcomes after cardiac surgery  
5           are reflective of the performance of the entire  
6           team rather than the performance of one  
7           individual provider.

8           So, all outcomes are affected not only  
9           by the surgeon but by anesthesia, nursing,  
10          cardiology, preoperative care, postoperative  
11          care. And that=s why oftentimes we=ll see the  
12          phrase that cardiac surgery is a team sport and  
13          therefore outcomes are reflective of the  
14          performance of the entire team.

15          That being said, there=s clearly a  
16          substantial desire to get at outcomes and  
17          outcome measures of individual providers. And  
18          although currently this measure is reported  
19          stratified by hospital and practice group we=re  
20          in the process of working fairly aggressively  
21          to develop mechanisms to report cardiac

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1 surgical performance stratified by the  
2 individual surgeon.

3 Sean already alluded to some of the  
4 issues that we face in doing that which relate  
5 to sample size. Any individual surgeon does  
6 less cases than an entire hospital or practice  
7 group.

8 And we=re developing some  
9 methodologies to overcome those challenges  
10 which include not only using composite measures  
11 but potentially creating a composite of  
12 composites where the performance of an  
13 individual surgeon can be examined by their  
14 overall performance across a number of  
15 operations rather than just isolated CABG.

16 And that=s something we=re working on  
17 fairly aggressively right now to address the  
18 desire to get at performance measures for  
19 individual surgeons.

20 I realize that=s a little bit long  
21 discussion but it applies to about five or six

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1 of the measures we're going to discuss today.

2 MEMBER YATES: Question. Given the  
3 fact that you're being asked about going to a  
4 more granular level of individual surgeons, do  
5 you have any data or have you ever polled the  
6 members of STS as to their acceptance of the STS  
7 registry as being (a) fair and (b) accurate?

8 DR. JACOBS: That's a great question.  
9 And I think, first of all, most surgeons realize  
10 that this is inevitable and that our discussion  
11 about cardiac surgery being a team sport and the  
12 outcomes being reflective of the performance of  
13 the entire team, while we believe that's true  
14 is not going to prevent the need and ultimate  
15 release of outcomes stratified by individual  
16 surgeons. So it's somewhat inevitable.

17 And therefore most STS members feel  
18 that if this is inevitable it certainly would  
19 be better coming from a clinical data source  
20 with precise definitions of the denominator and  
21 precise methodologies of risk adjustment.

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1           And as far as the question you're  
2           asking about polling members, I think where we  
3           are right now is we're finalizing our  
4           methodology to create a technique to report  
5           outcomes stratified by individual surgeons for  
6           risk-adjusted mortality.

7           And that's going to be presented to the  
8           membership at our next annual meeting. Dave  
9           Shahian is leading that initiative. Sean's  
10          the leading statistical expert on that  
11          initiative.

12          And I think prior to polling the  
13          members I think it's important to share with  
14          them exactly the methodology we plan to use to  
15          accomplish this feat.

16          And then after that I think the next  
17          step would be to go back and see what kind of  
18          buy-in we get from the membership.

19          MEMBER YATES: If I could just make a  
20          comment to the NQF staff. It's not one of the  
21          criteria for usability and use, but the

1 acceptance by the specialty is an important  
2 canary in the mineshaft if you will.

3 And if there=s a sense of this is fair  
4 for us then its utilization across very  
5 different potential purposes such as state and  
6 various different federal reporting mechanisms  
7 is going to be more readily enforced or more  
8 readily participated within.

9 And what you don=t want is a lot of  
10 inertia and a lot of -- because there=s a sense  
11 that the measure isn=t really capturing quality  
12 by the profession itself.

13 And if you have 90 percent of cardiac  
14 surgeons feeling this is not the case with STS,  
15 but if 90 percent of cardiac surgeons felt like  
16 the data didn=t make any sense to them you=d  
17 want to know that as a process for determining  
18 its quality.

19 And that might be something to add to  
20 your usability and use criteria. Because I  
21 think that would be important moving forward.

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1 DR. BURSTIN: It=s a very fair point.  
2 I think again being a multi-stakeholder  
3 organization that also has to be balanced by the  
4 usability by the end users as well, by consumers  
5 and purchasers. So, it is always a balance but  
6 I completely see your point.

7 DR. JACOBS: And I would just add to  
8 that. You=re absolutely right, if the users of  
9 the database, the cardiac surgeons, don=t buy  
10 into the actual use of the database that=s a big  
11 problem.

12 And the fact that over 90 percent of  
13 programs, close to 95 percent and certainly 95  
14 percent of operations are reported, I think  
15 that alone demonstrates a fair amount of  
16 substantial buy-in to what we=re currently  
17 reporting.

18 The fact that the number of programs  
19 publicly reporting has doubled over the last  
20 three years also demonstrates the buy-in. And  
21 I think we=ll have similar buy-in with the



1 individual participant measures once they=re  
2 fully developed.

3 MR. SHAHIAN: This is Dave Shahian.  
4 Can I make one brief comment?

5 CO-CHAIR FLEISHER: Go ahead, Dave.

6 MR. SHAHIAN: One of my jobs is  
7 unofficial chair of the complaint department  
8 database. And I must say it=s been astonishing  
9 how few complaints or areas of pushback from our  
10 participants.

11 They=re usually fairly sophisticated  
12 nuanced kinds of issues around the statistics  
13 and we usually have been able to answer them  
14 quite easily.

15 I think the reason that there=s been  
16 such widespread acceptance is twofold. First  
17 of all, I think the STS database participants  
18 recognize both the value of clinical data and  
19 the accuracy with which it=s collected in your  
20 institution and then presumably across other  
21 programs.

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1           They also recognize that absent the  
2           kind of data and accuracy and models that we  
3           have they=re subject to a lot of other black-box  
4           rating mechanisms out there which they=d like  
5           to avoid as we would.

6           And then the third aspect of this is  
7           the education. Before we roll out any measure  
8           we go through an extensive educational  
9           campaign. The papers are published in the  
10          literature. We present them at national  
11          meetings. Everything is spelled out in great  
12          detail. So I think education is a large part  
13          of this.

14          So we really have very few areas of  
15          pushback and hopefully it=ll continue to be  
16          that way going forward. Thank you.

17                 CO-CHAIR FLEISHER: Collette=s next  
18                 and then Anthony.

19                 MEMBER PITZEN: Collette Pitzen,  
20                 thank you. I just wanted to make a comment  
21                 about the usability of the measure. And this

1 comment is not to pick on STS. It's a great,  
2 wonderful database. It's also in general for  
3 complication rates for surgical procedures.  
4 With the national rates of CABG mortality at  
5 around 2 percent it's really difficult to  
6 discern with this as an individual measure  
7 differences between practices.

8 If you go on STS's website for this  
9 particular measure every single practice gets  
10 a two-star rating. So I just wanted to share  
11 that from that perspective about identifying  
12 excellent providers, even though there is  
13 differentiation at the decile level it is very  
14 hard to discern when you have a complication  
15 rate that is so low. Thanks.

16 DR. JACOBS: Yes, there's a couple of  
17 comments I would make related to that. First  
18 of all, someone in this room yesterday talked  
19 about what kind of complication rates would be  
20 accepted in the airline industry. And I think  
21 that's great. That was a tremendous analogy.

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1           A 2 percent complication rate in the  
2       airline industry would be completely  
3       unacceptable. And I think we're trying to get  
4       that 2 percent death rate after isolated CABG  
5       to be a lot less.

6           But second of all, regarding your  
7       important point about differentiation, the  
8       isolated CABG risk-adjusted mortality measure  
9       is a component of the overall CABG composite.  
10      And the overall CABG composite even on the  
11      publicly reported site shows substantial  
12      differentiation between one-star, two-star and  
13      three-star.

14           And then if we get to the non-publicly  
15      reported programs, all of the programs which is  
16      the remaining half of them there's even more  
17      differentiation. So, about 12.5 percent are  
18      one-star, 75 percent are two stars and 12.5  
19      percent are three stars.

20           And then when one goes beyond the star  
21      rating to the actual percentage there's even

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1 more variation because one can stratify not  
2 just into one-star, two-star and three-star,  
3 but the actual numbers and those numbers are  
4 publicly reported to accompany the stars.

5 MEMBER PITZEN: Right. I'm sorry, I  
6 forgot to mention I think there's extreme value  
7 in inclusion in the composite.

8 CO-CHAIR FLEISHER: Thank you.

9 CO-CHAIR GUNNAR: Can I jump in just  
10 real quick? Just real quick. Because I think  
11 Collette's point is a good one and one for NQF  
12 to think about going forward.

13 My understanding is ACC, American  
14 College of Cardiology and STS have for some time  
15 tried to collaborate on integrating their  
16 information.

17 Isn't the real question about quality  
18 since it's a cardiac service team sport really  
19 isn't it about when you present to the hospital  
20 with a cardiac -- a coronary syndrome of some  
21 sort and how you then exit the hospital. And

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1       that now incorporates so many more technologies  
2       than it ever did in the past.

3               And it really relates to the  
4       integration of a cardiac cardiology team. So  
5       I wanted to kind of have the comment about that.

6               DR. JACOBS: Yes, and I can comment on  
7       that a bit. The STS and the ACC are currently  
8       involved in a number of collaborative  
9       initiatives that link data from the STS  
10      database with data from the NCDR, the database  
11      of the ACC, and also with Medicare data for  
12      longitudinal outcomes. And that's been funded  
13      through a federally funded grant called the  
14      ASERT grant. It's led to a number of  
15      publications some of which have been published  
16      in the New England Journal.

17              And what that allows is for the  
18      assessment of performance across the entire  
19      spectrum of cardiac care, the whole team, not  
20      just surgery but surgery, cardiology and the  
21      whole team in a programmatic examination of

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1 outcomes.

2 I think that the work done with those  
3 linkages up till now have been to look at  
4 comparative effectiveness research and overall  
5 quality of healthcare delivered by the cardiac  
6 team.

7 And it's I think a reasonable  
8 possibility that that initial work is  
9 ultimately going to lead to some measures that  
10 could be proposed that would not just be  
11 cardiology or cardiac surgery quality  
12 measures, but cardiac team quality measures.  
13 It's not a big leap from where we are now to get  
14 to that point.

15 CO-CHAIR FLEISHER: I just have a  
16 quick question for staff. The star rating.  
17 Depending on different committees is that part  
18 of the measure or is that not? Just for  
19 clarification for me.

20 MS. WINKLER: No, the star rating is  
21 actually not. The measure includes the point

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1 estimate as the measure result.

2 How it's portrayed to any particular  
3 audience could be quite variable depending on  
4 the user. This is STS's chosen method but it  
5 is by no means something that automatically  
6 goes with the measure.

7 This is something that's been  
8 discussed throughout NQF the last time we went  
9 through this. So just to be clear.

10 DR. JACOBS: And we at the STS look  
11 quite closely on what's the best way to portray  
12 this information to patients, patients'  
13 families and other consumers of healthcare.

14 And on our website and on the Consumer  
15 Reports website one of the goals is to be able  
16 to portray this information in a fashion that  
17 it can be understood by somebody with a sixth  
18 grade education.

19 And then to allow a deeper dive into  
20 the same data with more detail for those that  
21 have the sophistication and the desire to learn

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1 more.

2 So therefore, the star rating allows  
3 one level of examination but by right-clicking  
4 on those stars, or double-clicking on those  
5 stars, all of the detail numbers that go into  
6 choosing those stars is also provided.

7 CO-CHAIR FLEISHER: So, Anthony, do  
8 you still have a question?

9 MEMBER ASHER: Dave, are you still on  
10 the line?

11 MR. SHAHIAN: Yes, I am.

12 MEMBER ASHER: Dave, when you were  
13 talking -- I'm just looking at this from the  
14 standpoint of the individual users. And of  
15 course the goal here is to develop more relevant  
16 measures of performance. And I would imagine  
17 also to ultimately relieve individuals of  
18 burdens that aren't relevant.

19 And so in this present period do you  
20 believe it's the case that the measures that  
21 you've developed, particularly in the context

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1 of the registry, has this overall reduced the  
2 burden on thoracic surgeons with respect to  
3 relevant measures programs? Or is that more of  
4 a future goal?

5 MR. SHAHIAN: No, I think it has. I  
6 mean there are -- if you're talking about the  
7 other sort of proprietary commercial rating  
8 organizations that I have alluded to, they're  
9 out there and programs are continuing to  
10 receive ratings. But our members have highly  
11 validated and we hope NQF-endorsed measures  
12 that stand as the gold standard. And that's  
13 the advantage we have.

14 I guess I would have to say that there  
15 are fewer of the less desirable ratings applied  
16 to cardiac surgery now simply because folks  
17 recognize the validity and the strength of our  
18 measures.

19 And it's one of the arguments that when  
20 other societies come to us and ask about this  
21 whole measure development process we always

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1 point out to them that you need to do it, you  
2 need to do it right. You need to do it with the  
3 best possible science. And that's your best  
4 defense against some of the less desirable,  
5 less accurate rating systems. So I think we're  
6 on our way to achieving that goal.

7 And we're expanding our portfolio of  
8 measures to include more and more procedures  
9 and more and more aspects of care like  
10 appropriateness which hopefully you'll be  
11 seeing in the future.

12 CO-CHAIR FLEISHER: Thanks. I think  
13 we need to vote on this measure. So,  
14 usability.

15 MR. SANCHEZ: Voting will now begin on  
16 criteria 4, usability and use. One is for  
17 high, two is for moderate, three is for low,  
18 four is for insufficient information. Timer  
19 starts now.

20 CO-CHAIR FLEISHER: And I think this  
21 is a great discussion. As we go to the other

1 measures if it's similar hopefully we can just  
2 say as discussed first thing this morning. It  
3 will be a way to continue.

4 Okay, we're now onto -- as soon as this  
5 is done.

6 MR. SANCHEZ: We have 12 for high, 11  
7 for moderate, zero for low, zero for  
8 insufficient information.

9 CO-CHAIR FLEISHER: Are we ready to go  
10 onto vote? Any objection? Okay, go ahead and  
11 vote.

12 MR. SANCHEZ: Voting will now begin  
13 for overall suitability for endorsement. One  
14 is for yes, two is for no. The timer starts  
15 now.

16 CO-CHAIR FLEISHER: Okay. And if we  
17 can switch and get CMS and I guess the Yale group  
18 for the next measure. All yours.

19 MR. SANCHEZ: We have 23 for yes and  
20 zero for no.

21 CO-CHAIR GUNNAR: So this is 2558,

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1 correct? Hospital 30-day all-cause  
2 risk-standardized mortality rate following  
3 coronary artery bypass graft surgery. CMS.  
4 Who is the discussant?

5 My apologies. CMS.

6 MS. SUTER: Actually, my name's Lisa  
7 Suter. I'm a physician with the Yale Center  
8 for Outcomes Research and Development. We  
9 developed this measure under contract to CMS.

10 MS. DRYE: Hi, Elizabeth Drye. Also  
11 director of quality measurement there and a  
12 physician who worked with Lisa on this measure.

13 CO-CHAIR GUNNAR: So, you have three  
14 to five minutes to sort of provide an overview.

15 MS. SUTER: Great, thank you. Thank  
16 you very much for giving us this opportunity to  
17 speak in front of you.

18 As was recently discussed this is a  
19 high-impact, high-priority procedure. It has  
20 been conditionally MEDPAC supported as a  
21 measure.

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1           You may or may not be aware that this  
2           was developed in combination with a readmission  
3           measure based on administrative claims. Those  
4           two measures were developed in very close  
5           harmonization with a complementary readmission  
6           measure based on registry data developed by STS  
7           that involved weekly workgroup meetings with  
8           our group and the STS measure developers which  
9           led to very closely harmonized readmission  
10          measures.

11           And the mortality measure that we  
12          developed benefitted from this close  
13          harmonization of the readmission measures.  
14          And is intended to complement the claims-based  
15          readmission measure.

16           Although we were unable to validate  
17          this measure against the STS database due to  
18          contractual issues the cohort definition of  
19          isolated CABG was validated for the readmission  
20          measure against the registry-based measure  
21          with a 97 percent accuracy, much higher than

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1 previous published reports of administrative  
2 claims achieving an accurate definition of  
3 isolated CABG. And we're sure that this is due  
4 to the close collaboration between STS and  
5 Yale.

6 In addition, we were able to validate  
7 the risk adjustment model for this measure  
8 against a well known state registry database in  
9 New York with the assistance of Dr. Edward  
10 Hannon and received a high correlation between  
11 the two risk models.

12 I think that's all I need to say and  
13 I'm happy to answer questions from the  
14 committee.

15 CO-CHAIR GUNNAR: Ms. McCarty?

16 MEMBER MCCARTY: So, this is an  
17 outcome measure that reflects the process of  
18 care coordination, particularly for peri- and  
19 postoperative care and care at the time of  
20 transitions, for example, discharges to home or  
21 skilled nursing facilities.

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1           It is an all-cause mortality with a  
2           risk-standardized mortality rate for patients  
3           18 years and older discharged from the hospital  
4           following a qualifying CABG procedure where  
5           mortality is defined as death from any cause  
6           within 30 days of the procedure after having an  
7           admission for CABG.

8           We've heard a lot about this already  
9           this morning so I think I can probably stop  
10          there.

11          MS. WINKLER:   Why don't we go ahead  
12          and start going through the criteria.   So the  
13          first one is evidence.   This is an outcome  
14          measure.   This is sort of the same measure you  
15          just talked about.   It would be interesting if  
16          you voted differently for this time than the  
17          last one.

18          CO-CHAIR GUNNAR:   So a challenge has  
19          been posed by NQF.

20          MEMBER GROVER:   So I'm abstaining on  
21          this one too.



1           MEMBER CIMA:     Can we just ask a  
2           question of sort of the gorilla in the room or  
3           elephant in the room?   Why two?

4           MS. WINKLER:   We'll get there.

5           MEMBER CIMA:   Okay.   I didn't know  
6           where that was going to fall in the criteria.

7           MS. WINKLER:   We'll get there.

8           CO-CHAIR GUNNAR:   Amaru, we're ready.

9           MR. SANCHEZ:   Voting will now begin  
10          for criteria 1a evidence.   One is for yes, two  
11          is for no.   Timer starts now.

12          We have 23 for yes, zero for no.

13          CO-CHAIR GUNNAR:   Proving we are a  
14          trainable group.   And honest in our responses.  
15          So, performance gap.

16          MEMBER MCCARTY:   Yes, so performance  
17          gap.   So, in the data analysis they did they  
18          showed an average of 3.3 percent mortality with  
19          a fairly large range I think for this type of  
20          measure where it ranged from 1.5 percent for  
21          certain facilities up to 9.3 percent.   Which is

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1       again I think a very wide amount of variation  
2       for this type of measure. So I do think that  
3       there is a high opportunity, high performance  
4       opportunity with this measure.

5               CO-CHAIR GUNNAR:       Any other  
6       discussion? We're ready to vote.

7               MR. SANCHEZ:   Voting will now begin  
8       for subcriterion 1b performance gap. One is  
9       for high, two is for moderate, three is for low,  
10      four is for insufficient. Timer starts now.

11              CO-CHAIR GUNNAR:   Waiting for one  
12      more? Or we're good. Olson, Dr. Olson  
13      stepped out. So we're good at 22.

14              MR. SANCHEZ:   Sixteen for high, six  
15      for moderate, zero for low, zero for  
16      insufficient.

17              CO-CHAIR GUNNAR:   I think that tracks  
18      with our previous response.

19              MEMBER MCCARTY:   In terms of priority  
20      we know that CABG surgeries are high-cost  
21      procedures and they account for the majority of

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1 cardiac procedures performed nationally. And  
2 then again from what we've seen with the data  
3 it's also associated with considerable  
4 morbidity, mortality and healthcare spending.  
5 So my assessment was that this is a high  
6 priority.

7 CO-CHAIR GUNNAR: Any further  
8 discussion? All right, ready to vote.

9 MR. SANCHEZ: Voting will now begin  
10 for subcriterion 1c high priority. One is for  
11 high, two is for moderate, three is for low,  
12 four is for insufficient. Timer starts now.

13 CO-CHAIR FLEISHER: In case people  
14 were wondering I just asked -- there is an  
15 obligation to make those statements for the  
16 transcript purposes.

17 CO-CHAIR GUNNAR: We have 22 so let's  
18 --

19 MR. SANCHEZ: We have 21 for high, 1  
20 for moderate, zero for low, zero for  
21 insufficient.

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1 CO-CHAIR GUNNAR: And now for the  
2 discussion.

3 MEMBER MCCARTY: So, for reliability  
4 the developers did use the exact same risk  
5 stratification methodology as was used in STS  
6 because they wanted to keep these two measures  
7 in harmonization if I understood that correctly  
8 from the description.

9 In order to review the data they looked  
10 at a combined data set with 2008 to 2010 data  
11 and randomly split it into approximately two  
12 equal subsets of patients and calculated the  
13 risk-stratified mortality rate of each sample  
14 and got agreement between those two sets. So  
15 they did significant reliability testing and  
16 showed good results from that.

17 And again, the methodology is the same  
18 one that I believe we heard described earlier  
19 today.

20 CO-CHAIR GUNNAR: Any other -- yes,  
21 here we go. Dr. Yates.

1           MEMBER YATES:   The data for STS is  
2           through the direct registry.   How are you  
3           collecting the data for CMS?   Is the data  
4           coming from that registry data directly, or is  
5           it coming from harmonized collection of data  
6           through administrative data set?

7           MS. SUTER:   This is Lisa Suter with  
8           Yale CORE.   The data for this measure, entirely  
9           administrative claims data.   There's no burden  
10          on hospitals.   These are already submitted  
11          using billing codes.

12          The risk adjustment strategy looks  
13          back 12 months prior to the hospitalization for  
14          the CABG procedure, includes all appropriate  
15          diagnostic and procedural codes in the risk  
16          adjustment.   And this risk adjustment model  
17          was validated against a registry sample using  
18          the New York registry with Ed Hannon's  
19          assistance.

20          MS. WINKLER:   When you look at the  
21          data you presented for the gap in variation

1 compared to that from STS they are quite  
2 different. So, how are the specifications of  
3 this measure differ from the STS measure? I  
4 mean, what can account for those differences?

5 MS. SUTER: So, I think there are --  
6 this is Lisa Suter from Yale CORE. I think  
7 there are several possible discordances  
8 between the results you saw from STS and our  
9 results, the first of which is these were  
10 results from 2009 through 2011 for our data.  
11 We can't speak to the STS data but certainly  
12 there may be trends over time that we're not  
13 capturing.

14 The second of which is as you're aware  
15 of the last discussion the outcome is slightly  
16 different with ours being a truncated measure  
17 at 30 days all-cause even if you are  
18 hospitalized beyond the 30-day mark.

19 And the last of which is that you're  
20 measuring a slightly different collection of  
21 hospitals. This measure captures all

1 hospitals submitting Medicare claims for CABG  
2 procedures. And it is also looking solely at  
3 among Medicare beneficiaries. So, patients  
4 who are 65 years and older. Whereas the STS  
5 data includes younger patients.

6 We have validated our measure  
7 specifications in an all-payer data set using  
8 California all-payer data and found similar  
9 results. But the results that were presented  
10 in the application are for Medicare  
11 beneficiaries 65 and older.

12 CO-CHAIR GUNNAR: Dr. Fleisher. Go  
13 ahead.

14 CO-CHAIR FLEISHER: So, I'm going to  
15 ask the questions I asked of the STS group.  
16 Which is how many additional elements or less  
17 elements are there in your model and how do you  
18 handle transfers within your model.

19 MS. SUTER: This is Lisa Suter from  
20 Yale CORE. The claims-based measure is  
21 harmonized with regards to transfers with the

1 STS measure. The mortality is attributed to  
2 the initial hospital performing the initial  
3 CABG procedure.

4 So, any subsequent transfers are not  
5 considered separate hospitalizations. The  
6 outcome is attributed to the initial hospital  
7 performing the CABG procedure.

8 In terms of -- your second question was  
9 the differences in terms of risk adjustment  
10 factors. So, on page 37 of the technical  
11 report we list the risk variables included in  
12 our model. I'm not actually sure numerically  
13 which ones are -- how they differ from STS.

14 I will say that there's a significant  
15 overlap between the mortality risk adjustment  
16 model and the readmission risk adjustment model  
17 which was validated against the registry data  
18 in a matched cohort of patients and yielded very  
19 similar C statistics for readmission.

20 Again, it was validated against a New  
21 York State registry and revealed very similar

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1 C statistics in that database with the clinical  
2 registry data yielding a C statistic of 0.75 and  
3 the claims-based measure, 0.74.

4 With our whole cohort our C statistic  
5 is 0.84. That includes the national data.  
6 That's the C statistic for our model in national  
7 data.

8 In terms of the differences between a  
9 clinical risk model, as you can imagine claims  
10 data captures very different information. A  
11 COPD diagnosis does not necessarily present the  
12 same information as an FEV1 might. So, they do  
13 capture different information.

14 But when they are aggregated up at the  
15 hospital level in a matched cohort of patients  
16 they produced correlation rates for the  
17 readmission measure of in excess of 0.90, close  
18 to 0.95 in some cases depending on the statistic  
19 used.

20 We saw similar correlations in the New  
21 York State registry data when we looked at a

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1 comparison of the risk model performance in the  
2 clinical data versus the registry data.

3 CO-CHAIR FLEISHER: So, have you  
4 actually compared the rankings between yours  
5 and the STS data set? Do hospitals change in  
6 rank?

7 MS. SUTER: So, we have not done a  
8 comparison of our mortality measure compared to  
9 the STS results.

10 We did do a recategorization analysis  
11 in the New York data set. As you can imagine  
12 this is a challenge. There were only 36  
13 hospitals that had matching and of those 36 only  
14 35 had at least 25 cases in the data that we had  
15 available.

16 Among those 35 hospitals, 33 were  
17 identically categorized in terms of  
18 performance between the 2 measures, and 2 were  
19 categorized differently.

20 The two that were categorized  
21 differently were identified as low-performing

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1 outliers by the registry model and were  
2 categorized as no different than average, New  
3 York average by the claims-based measure.

4 We tried to investigate that a little  
5 bit. The predictions of the performance  
6 estimates are highly overlapping but the  
7 cutoffs just meant that for the claims-based  
8 model they fell close to, you know, just below  
9 the cutoff for being considered worse than  
10 average.

11 So I think in comparison we know from  
12 our readmission measure that the claims-based  
13 measure does seem to err on the side of  
14 conservatism in terms of identifying outliers  
15 which may be an appropriate approach given its  
16 application potentially.

17 CO-CHAIR GUNNAR: How do you manage  
18 missing data?

19 MS. SUTER: So, there are patients who  
20 are not enrolled in Medicare for the sufficient  
21 period pre-operatively to allow us risk

1 adjustment are eliminated from measurement.  
2 And that's probably the largest exclusion to  
3 our measures.

4 In terms of unreliable data, a small  
5 proportion of patients are eliminated if they  
6 have what we consider data that might be in  
7 error. So, for example, age over 115 or things  
8 like that. It's a small proportion of  
9 patients, it's probably 0.1 percent of cohort,  
10 but they are excluded with a careful algorithm  
11 that identifies outlying data.

12 And otherwise there are no -- I mean,  
13 these are administrative billing data. There  
14 are no missing data as long as you're enrolled  
15 and we have captured your claims.

16 CO-CHAIR GUNNAR: And for  
17 perspective, Dr. Grover, STS average age for  
18 CABG, is it 68? Sixty-seven? The median.

19 MEMBER GROVER: It's in the sixties I  
20 believe, but I can't remember.

21 CO-CHAIR GUNNAR: But it's at or

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1 around Medicare age at 65.

2 MEMBER GROVER: Well, yes, but there  
3 are younger patients. It's just they're a lot,  
4 you know, that's a disease that presents later.

5 CO-CHAIR GUNNAR: But I think for the  
6 perspective of the committee about half. It's  
7 roughly about half of --

8 MEMBER GROVER: Yes.

9 CO-CHAIR GUNNAR: -- the patients  
10 would be of Medicare age that undergo coronary  
11 artery bypass grafting. Okay. We can agree  
12 on that I think? All right.

13 Collette?

14 MEMBER PITZEN: Hi, Collette Pitzen.  
15 I just had a small question that came up during  
16 our workgroup call. Thanks, Dr. Suter, for all  
17 the explanations.

18 If I'm understanding correctly  
19 patients that have a repeat CABG procedure  
20 during the measurement period are not included.  
21 Or their initial CABG is the one that's included

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1 but a redo CABG, then potentially mortality  
2 after that would not be included. And I was  
3 just wondering about the overall impact of that  
4 particular exclusion. Thank you.

5 MS. SUTER: Thank you. This is Lisa  
6 Suter from Yale CORE.

7 In terms of the decision to identify  
8 the first CABG in the measurement period and  
9 exclude subsequent CABGs this was a lengthy  
10 discussion with the measure developers that  
11 included our workgroup with cardiothoracic  
12 surgeons including Dr. Shahian who I believe is  
13 on the phone.

14 And the thinking and what has always  
15 really impressed me about cardiothoracic  
16 surgeons involved in this measure development  
17 is the tremendous amount of responsibility for  
18 patient outcomes in this group of physicians.

19 And the feeling was any subsequent  
20 events in the year following a CABG,  
21 particularly a redo CABG were likely a

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1 significant failure of the initial CABG. And  
2 the feeling was from a clinical standpoint to  
3 capture that initial CABG as the primary event  
4 and obtain an appropriate measurement and  
5 performance estimate for that hospital  
6 performing that CABG.

7 Certainly other approaches are  
8 justifiable but for this particular measure the  
9 recommendation from our clinical experts was to  
10 appropriately pick that.

11 A distant history of prior CABG is  
12 captured as long as it's captured in the codes,  
13 the RV codes for history of CABG procedures.

14 MEMBER KO: I wanted to ask a question  
15 about data source. So clearly the prior  
16 measure was registry. This is claims. And  
17 there's pros and cons of both. If we could  
18 marry the best of both that would be terrific.

19 When we try to do that at the college,  
20 merge clinical and claims, one of the problems  
21 we have is the delay in getting the

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1 administrative. We can't seem to reconcile  
2 that and give back timely data.

3 How do you handle that? What do you  
4 see as the time frames if you're going to report  
5 however, semiannually or annually? How  
6 delayed is that data? And do you see -- and  
7 does it even matter if it's delayed? If it's  
8 a year late, you know, how large are the  
9 differences from year to year? Because I  
10 suspect it's not that large.

11 MS. SUTER: So this is Lisa Suter from  
12 Yale CORE. It's a great question and I'll  
13 present and answer and also allow CMS to comment  
14 as well if there are additional comments.

15 First of all, the exact reporting  
16 mechanism for this measure hasn't been  
17 determined. Other similar measures have been  
18 reported across a three-year time frame. So a  
19 hospital has a three-year collection period of  
20 data.

21 There is usually about a 18-month

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1 delay between the end of the measurement period  
2 and the report of the results. And the reason  
3 for that extensive delay is that hospitals have  
4 a legal opportunity to debate their claims and  
5 their payments. And so that gives hospitals an  
6 opportunity to make sure that their claims are  
7 accurate and to ensure that the administrative  
8 claims that are being used for performance  
9 estimation are final.

10 And therefore, it's a tradeoff. And  
11 this is something that measure developers are  
12 challenged with all the time which is the  
13 tradeoff between accuracy of our estimation and  
14 the rapid cycle with which we can provide  
15 feedback to hospitals for performance  
16 improvement.

17 In terms of generating reliable  
18 estimates at the hospital level we have for the  
19 purposes of the outcome measures that we have  
20 developed thus far and that are in public  
21 reporting because of the high-profile nature of

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1       these measures we have favored longer periods  
2       of data collection in order to provide stable  
3       estimates using final action claims in order to  
4       produce the most acceptable estimates to  
5       stakeholders possible.

6               We recognize that that's a tradeoff.  
7       And this is certainly one of the areas in which  
8       having complementary measures that measure a  
9       similar outcome and a similar cohort such as the  
10      two measures we're discussing today provide  
11      measurement opportunity in different spaces  
12      that are both very important to healthcare.

13             CO-CHAIR   GUNNAR:       Any    other  
14      discussion?   Ready to vote.

15             MR. SANCHEZ:   Voting will now begin  
16      for 2a reliability.   One is for high, two is for  
17      moderate, three is for low, four is for  
18      insufficient.   Timer starts now.

19             We have 12 for high, 10 for moderate,  
20      1 for low, zero for insufficient.

21             CO-CHAIR GUNNAR:   Validity.

1           MEMBER MCCARTY:     So in terms of  
2     validity this measure was tested for validity  
3     at the data element level.

4           In addition, the developer cites that  
5     the validity testing has been completed  
6     similarly for six other NQF-endorsed various  
7     30-day mortality measures that are currently  
8     used now for public reporting.

9           And then we heard that from various  
10    testing that they did they actually have used  
11    data from five different data registries in  
12    terms of validating the data at various levels.  
13    So I believe that this measure has been highly  
14    validated.

15          CO-CHAIR GUNNAR:     Any further  
16    discussion? We're ready to vote.

17          MR. SANCHEZ:   Voting will now begin  
18    for 2b validity. One is for high, two is for  
19    moderate, three is for low, four is for  
20    insufficient. Timer starts now.

21          CO-CHAIR GUNNAR:   Just vote again

1 real fast everybody. There we go.

2 MR. SANCHEZ: We have 14 for high, 9  
3 for moderate, zero for low, zero for  
4 insufficient.

5 MEMBER MCCARTY: Okay. In terms of  
6 feasibility all data elements required for this  
7 measure are captured in electronic claims.  
8 And as stated earlier, this type of data  
9 collection and analysis is already being  
10 collected at facilities for other types of  
11 30-day mortality metrics that are currently  
12 publicly reported measures. So, feasibility  
13 for this I believe is high.

14 CO-CHAIR GUNNAR: Any other  
15 discussion? Ready to vote.

16 MR. SANCHEZ: Voting will now begin  
17 for feasibility, criteria 3. One is for high,  
18 two is for moderate, three is for low, four is  
19 for insufficient. Timer starts now.

20 CO-CHAIR GUNNAR: Everybody one more  
21 time. We're missing one. There we go.

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1           MR. SANCHEZ: We have 21 for high, 2  
2           for moderate, zero for low, zero for  
3           insufficient.

4           MEMBER MCCARTY: Okay. In terms of  
5           usability and use I have a little bit of  
6           difficulty thinking about the usability  
7           because there are competing measures that are  
8           evaluated. But I know we get to that  
9           discussion later today in terms of comparing  
10          them.

11          It would be used for public reporting,  
12          or that is CMS's plan though I guess they're  
13          still considering it. But they will be looking  
14          to make that happen.

15          And this is a new measure so at least  
16          in terms of the way it's defined from CMS so  
17          there's no -- it's not a continued one. But it  
18          would be used for public reporting.

19          MS. WINKLER: Dr. Cima, you had said  
20          ask when. Now might be part of your question  
21          would be reasonable to ask, the added value, or

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1       usefulness of two, or something like that.

2               DR. BURSTIN:   Or actually just frame  
3       it the usefulness of this particular measure.

4               MS. WINKLER:   In the context of  
5       others.

6               MEMBER CIMA:   Well, I mean the  
7       question becomes -- it's not really a data  
8       burden issue because it's administrative data.  
9       But we already know that 90 to 95 percent of all  
10      cardiac programs are in STS. Hospitals are  
11      doing that. It's more granular data.

12              It does have the advantage of not  
13      having a 30-day cutoff. And for those of us who  
14      have spent time in cardiac ICUs a number of  
15      patients that do expire there greater than 30  
16      days. And so, you're going to miss some.

17              Having two measures out there with  
18      sort of the same title that are going to be used  
19      in the public reporting space using different  
20      methodologies doesn't really do -- it may do a  
21      service, but it may also do a disservice because

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1       you may pull away with different ideas.

2               And I think as we're pairing away  
3       things just having a measure because we have  
4       another measure that does the same thing,  
5       that's going to capture a measure that has more  
6       granularity, has more detail, that you can get  
7       a subset of those greater than 65, I'm not sure  
8       why -- I'm just trying to understand why.   Why  
9       two.

10              It just seems like that's one of the  
11       things we should try and do is either harmonize  
12       them to one or basically say one is better than  
13       the other and we're going to go with the one  
14       that's better.   And just decide which one.   I  
15       don't have a dog in the fight but I'm just saying  
16       just go with one.

17              CO-CHAIR GUNNAR:   Dr. Siperstein.

18              MEMBER SIPERSTEIN:   I mean, obviously  
19       there's an issue comparing this to the STS  
20       measure.   But the issue I have with usability  
21       even as an isolated measure to assess the

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1 quality of the program is that this just looks  
2 at the Medicare subset. And that's the major  
3 factor just as an isolated measure that I have  
4 issues with usability.

5 CO-CHAIR GUNNAR: Tagging onto that  
6 question historically if you underwent a trach  
7 after a coronary artery bypass procedure you  
8 actually fell into a different ICD-9 code and  
9 you actually didn't get tracked under CABG.

10 Under a DRG code, yes. So, apologize  
11 for that, yes. Different DRG code. So you  
12 wouldn't get tracked for that reason.

13 MS. SUTER: So this is Lisa Suter from  
14 Yale CORE. We do not use DRGs in the definition  
15 of our measure cohort so you're identified by  
16 your procedure code which does not disappear  
17 even if your trached following surgery.

18 MEMBER SIPERSTEIN: Perfect. Thank  
19 you.

20 CO-CHAIR FLEISHER: So to follow up on  
21 Allan's question or was it Bob's. So I look at

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1 two things.

2 One is is it fair to look at a program.  
3 Why would you think that only measuring the  
4 Medicare patients, are they uniquely  
5 different? You actually have a smaller sample  
6 size for a given population. So that why is  
7 there advantage to only saying that to Medicare  
8 beneficiaries. So CMS may want to answer that.

9 Two is there's a very small cohort of  
10 small programs that don't participate in the  
11 STS database. Given the size or the volume of  
12 patients, especially with the hierarchical  
13 model that you use can you make any statements  
14 about quality in a hospital that's so small that  
15 they wouldn't participate in the STS database.

16 Because my understanding of your  
17 hierarchical model would actually place them as  
18 no different than average which gets to the  
19 third statement. In the STS model you actually  
20 have outliers and in your model do you know what  
21 percent really fall as outliers?

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1           We heard 12.5 percent low, 12.5  
2           percent high statistically from the STS group.  
3           Where do you fall out as far as high and low?

4           MS. DRYE: Hi, this is Elizabeth Drye  
5           from Yale CORE.

6           The focus on Medicare patients is in  
7           part -- I'll just speak as a measure developer  
8           and CMS, I think you might want to come in  
9           because it's partly pragmatic and partly  
10          programmatic focused.

11          The pragmatic piece is as you know,  
12          that's the one national data set that we have  
13          where we have every patient covered for a  
14          defined age group, 65 and older. So we are able  
15          to pull in those straggler hospitals and  
16          programs that don't participate with STS. And  
17          those are of particular concern.

18          In terms -- that's a great question.  
19          Is there enough volume at these hospitals. I  
20          don't think, and I would turn back to both my  
21          colleague Lisa Suter and our STS colleagues.

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1 I don't think we were able to really  
2 fully characterize the uncaptured STS  
3 hospitals because of data agreements. We  
4 really would love to be able to answer that  
5 question, exactly how many patients are at the  
6 hospitals that don't participate with STS and  
7 how concentrated are they within those  
8 hospitals.

9 But I think we're particularly  
10 concerned about the quality of care. This is  
11 a Medicare beneficiary-centered approach.  
12 And that's an important group that we're all  
13 going to be in at some point.

14 CO-CHAIR FLEISHER: Well, I would  
15 actually ask the robustness of the model. So,  
16 from year to year given sample size of Medicare  
17 patients who actually have a larger, maybe  
18 anywhere from a 100 percent larger sample size  
19 if it's really only 50 percent Medicare. So  
20 the robustness from year to year to say anything  
21 about Medicare, is it really -- is a larger

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1 sample size in any given year going to give you  
2 more a reflection of the program, or do you  
3 actually think that the ability to just track  
4 the Medicare cohort really reflects the  
5 patient's care in that hospital?

6 MS. DRYE: We're trying to get at the  
7 quality of care for those patients  
8 specifically. And I think we will have enough  
9 patients. You know, all of our outcomes  
10 measures are focused on the subset of patients  
11 in a hospital that are Medicare patients.

12 We are -- we don't have a reason to  
13 think that care doesn't track with the overall  
14 care in the hospital. So, I mean, it's a  
15 research question that we've tried to look at  
16 in different contexts.

17 But I think we will have enough to have  
18 outliers in our population. I think there were  
19 not a lot of -- it's very hard if you -- whether  
20 you see outliers or not depends as you know on  
21 how conservatively you classify outliers.

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1           So if you use, for example, a 95  
2           percent confidence interval and say we're only  
3           going to put somebody in a better or worse  
4           category if they're very -- we have a really  
5           high level of confidence then in these kinds of  
6           outcomes measures you're not going to see a high  
7           number of outliers.

8           But I think we would have the ability  
9           to identify very poor performers, even if they  
10          have relatively few cases.

11          CO-CHAIR FLEISHER: I guess another  
12          way to ask my question and I'll be brief is if  
13          they're an outlier in your data set and not an  
14          outlier in STS the next year, has anybody  
15          looked, would they remain an outlier in your  
16          data set? Or was it just a statistical fluke  
17          of that year?

18          MS. SUTER: So, we haven't had the  
19          opportunity to look at that. I will also just  
20          say I tried to see whether we've had an  
21          opportunity to run the actual performance

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1 categorizations on the whole U.S. sample.

2 And we don't have those bootstrap  
3 results that actually slot hospitals into  
4 categories. It was only done for the small  
5 subset of hospitals during the validation  
6 process. So I can't actually tell you using  
7 the methodology for existing publicly reported  
8 CMS mortality measures how many outliers there  
9 are in the CABG measure.

10 But Elizabeth's right that you could  
11 create more outliers depending on what cutoff  
12 you use to define an interval estimate around  
13 the national average in order to define what's  
14 statistically significantly different from  
15 national average.

16 MS. DRYE: I would just -- I'm trying  
17 to answer your question. I apologize because  
18 I feel like I'm not answering your questions as  
19 directly as I want to. And it's not because of  
20 the way you're asking them, I think I'm just --  
21 they're really, really tough questions.

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1           Would that same hospital -- let's say  
2           that, you know, we're trying to get at a latent  
3           variable of quality in these hospitals.

4           And let's say it's a bad hospital.  
5           You know, if it shows up one year as a bad  
6           hospital in our measure or an STS measure would  
7           it necessarily be an outlier in the next year?  
8           I don't think we can say for sure it will.

9           What we think about with these outcome  
10          measures, we try to produce them so we get the  
11          most reliable score we can. But if you don't  
12          want to be a bad hospital you better be good.  
13          If you want to be a really good outlier you  
14          better be great. I mean, the really, really  
15          great and the really, really bad will be  
16          consistent, but there's some movement year over  
17          year. And I think that's just the nature of  
18          using patient outcomes to capture a latent  
19          variable of quality.

20                 CO-CHAIR FLEISHER: Dr. Yates.

21                 MEMBER YATES: Just a follow-up on the

1       duality question that came up. And this may be  
2       something that CMS answers more readily. But  
3       it came to my attention the other day that I saw  
4       NSQIP data being advertised on  
5       HospitalCompare.gov as being now one of the  
6       things being reported there.

7               And is there any possibility for the  
8       greatest transparency for consumer  
9       stakeholders that you would have dual  
10      reporting, side-by-side reporting of STS  
11      reporting and also the CMS Yale CORE reporting  
12      processes so that there would be a way for  
13      consumers to compare, say, the Medicare  
14      population versus population at large, or see  
15      that the two correlate?

16             MS. HAN: This is Lein Han from CMS.  
17      I would like to address the question of what you  
18      call duality or competing measures.

19             From CMS's perspective we don't see  
20      this issue as either/or. I think I would like  
21      to frame it as more like short-term and

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1 long-term. And see it as a progression.

2 CMS very much is supportive of  
3 measures using different data sources,  
4 clinical data, EHR data. And our goal is to  
5 develop measures, use measures in the EHR  
6 environment using electronic health records in  
7 the future.

8 But you can see that -- I can see the  
9 vote feasibility is pretty high for these  
10 measures from the panel. So that's the current  
11 concern right now, short-term, is the  
12 feasibility for us.

13 We take into account the burden to  
14 hospitals, burden to taxpayers, and a lot of  
15 legal factors too, to implement a measure. So,  
16 that's how we see why we proposed using the  
17 claims-based measures as a short-term goal  
18 here.

19 CMS has developed not only  
20 claims-based measures. We have hybrid  
21 measures in terms of clinical and the EHR data

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1 with the claims data. And we are working  
2 toward develop -- or we call it reengineer, the  
3 de novo measures using EHRs.

4 So, I think for us it's a progression  
5 issue. It's not either and or. It's not dual  
6 thing.

7 And the other thing is that CMS is not  
8 the only organization develop or use measures.  
9 And we'd like to see these measures -- these are  
10 both very good measures. Like other  
11 organizations may have the capability to use  
12 other measures. I think that's one of the  
13 reasons we support these types of measures.

14 And to answer the question about  
15 voluntary reporting right now on the Hospital  
16 Compare using the ASC measures. And it's just  
17 a voluntary reporting. So we don't require  
18 hospitals to submit data. And then it's really  
19 hospital has an agreement with a registry  
20 whether they are participators. CMS, like I  
21 said, it's a feasibility issue. We like to see

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1       this data but we don't really require hospitals  
2       to submit the data to CMS. Thank you.

3               CO-CHAIR GUNNAR: Dr. Levy?

4               MEMBER LEVY: This is just a really  
5       practical question but this has all been  
6       specified with ICD-9. Have you tested it with  
7       ICD-10? Just from a practical standpoint and  
8       our being able to use this measure over the next  
9       several years. I can foresee some  
10      administrative issues and reliability and  
11      validity issues with this measure.

12              MS. SUTER: This is Lisa Suter with  
13      Yale. The measure has been crosswalked to  
14      ICD-10. We don't actually have ICD-10 data in  
15      which to test it at this point.

16              The crosswalked ICD-10 as you can  
17      imagine is a challenge for this kind of a  
18      measure and involved both using a standardized  
19      metric or software tool that crosswalks and  
20      then had extensive physician review in order to  
21      ensure that the crosswalk was clinically

1 coherent. And when data becomes available I'm  
2 sure there will be a plan for actually testing  
3 it in ICD-10 data.

4 MEMBER LEVY: My real concern there is  
5 ICD-10 PCS as I understand it is not as granular  
6 as the ICD-9 for procedure codes. And that  
7 even though you did the crosswalks, how  
8 hospitals will do the crosswalks and report the  
9 data may be problematic.

10 MS. SUTER: It's certainly a concern  
11 that will need to be addressed when ICD-10 is  
12 implemented and there's actual data to assess  
13 the measures in ICD-10 dat.

14 CO-CHAIR GUNNAR: Collette?

15 MEMBER PITZEN: Collette Pitzen. I  
16 just wanted to comment on a subject that was a  
17 little bit ago. But it has to do with the data  
18 being specified and used in the Medicare  
19 population.

20 From my developer's hat if you have  
21 really good specifications there's no reason

1       why you couldn't take these specs and apply them  
2       to an all-payer state database, or have that  
3       applicability. So I don't think that should be  
4       a negative in our consideration.

5               MS. SUTER: Sorry, this is Lisa Suter  
6       from Yale. Just to follow up, this has been  
7       validated in the California State all-payer  
8       data set. So, it does perform similarly in an  
9       all-payer data set.

10              CO-CHAIR GUNNAR: Dr. Markman.

11              MEMBER MARKMAN: Using claims data  
12       versus a registry you can bullet your claims  
13       data down to the individual physician if he is  
14       an outlier.

15              MS. SUTER: This is Lisa Suter from  
16       Yale. This measure was developed at the level  
17       of the hospital and was tested solely at the  
18       level of the hospital. The measure  
19       development contract was specified as such.

20              We have not tested it at the physician  
21       level. As had been earlier discussed there are

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1 concerns about sample size in terms of being  
2 able to estimate at the surgeon level.

3 MEMBER MARKMAN: You see, but in the  
4 big picture when you compare registries and  
5 with the comment before on how it's difficult  
6 to get the individual surgeon to comply using  
7 claims data you can, I mean you can -- the  
8 advantage of using claims data is that you can  
9 really narrow it down to outliers in the  
10 physician population. Because you need to.

11 And I think that that's one of the big  
12 differences between a registry versus using for  
13 CMS.

14 MS. DRYE: Sorry, I just wanted to add  
15 onto that point. And I think it's true for both  
16 STS. I know it's true for the outcomes  
17 measures CMS has reported for hospitals.

18 Hospitals do get patient-level data  
19 which identify the specific surgeon and the  
20 risk factors and outcome for every patient  
21 confidentiality. And our hope is that if there

1 are outlier surgeons we know that are causing  
2 an unacceptably high mortality rate that there  
3 are discussions that go on in that hospital.

4 So it's not transparent to the public  
5 but it is to the provider group and the  
6 hospital.

7 CO-CHAIR GUNNAR: Ms. Moyer?

8 MEMBER MOYER: We've talked about the  
9 reduced sample size with this, but what we  
10 haven't talked about, specifically salient to  
11 usability and use, is there's no opt-out of the  
12 public reporting.

13 When, you know, and I applaud STS for  
14 the voluntary reporting and all of the  
15 hospitals that share their data, but it's a  
16 voluntary reporting publicly.

17 And as someone who purchases in a state  
18 where previous voluntary efforts, we have had  
19 a geographic area of hospitals send us a letter  
20 and say you don't need to know how good we are.  
21 We're just, we're not going to participate.

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1       There's an advantage to this measure that takes  
2       that off the table.

3               CO-CHAIR GUNNAR:   Dr. Yates?

4               MEMBER YATES:   My one comment was is  
5       that having looked at the release of the  
6       individual physician payment data that was put  
7       out in 2012 and looking at the local  
8       distribution of attribution of different  
9       surgeries to different surgeons it wasn't clear  
10      that the billing data which may not be the same  
11      as the data attributed to individual surgeons  
12      that you're using, but it wasn't clear that it  
13      was accurate.

14              We had one partner that had -- one  
15      member of the group that had been very, very  
16      busy but he was accounted for absolutely no  
17      surgeries. Yet somebody else was attributed  
18      accurately. I personally was attributed for  
19      just my office work.

20              So, it may be because of common billing  
21      or common tax IDs being used. And I think



1       that's changing with individual tax IDs being  
2       more required. But there is a question as to  
3       how you capture the individual surgeon through  
4       billing data because there has been in the past  
5       common tax IDs.

6               DR. BURSTIN:       Just two cautions  
7       before you vote on usability.

8               First, the discussion of the  
9       individual physician is really important and  
10      very important as we think about the future.  
11      It's not applicable to this measure. This is  
12      just a facility-level measure. It shouldn't  
13      have some of the issues that were just raised.

14              And secondly, this really is about the  
15      usefulness of this measure. As tempting as it  
16      is to do the comparison that is a secondary  
17      discussion after the decision around  
18      endorsement -- recommendation for endorsement  
19      of both measures.

20              So I don't want you to weigh in the  
21      comparison and contrast. You're really

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1 looking at this measure and its usefulness,  
2 usability and all the other criteria  
3 individually.

4 You'll then have a chance to talk about  
5 competing. But I just want to keep it clean.

6 CO-CHAIR GUNNAR: But the argument to  
7 that is if I have -- we know we have two  
8 measures. One is 18 months behind the other.  
9 Even if they were equal, even if we said they  
10 were equal, from an NQF perspective and for the  
11 assistance of this committee if you had two  
12 exact measures but one was 18 months behind,  
13 data was 18 months behind from a usability point  
14 of view that has an impact.

15 DR. BURSTIN: Right and so what --  
16 those are perfectly appropriate for you to rate  
17 the usability of this measure. But I wouldn't  
18 do it as a comparison to the other one. You'll  
19 have an opportunity to have a discussion of the  
20 two measures side-by-side.

21 But certainly fair game to talk about

1 anything related to this measure in your vote  
2 on usability for this measure. But not in  
3 contrast I think to the other one, just to be  
4 fair.

5 CO-CHAIR GUNNAR: Dr. Handy?

6 MEMBER HANDY: Well, could you  
7 expound on that a little bit, Helen? Because  
8 we really haven't had the harmonization  
9 discussion yet and it's not even part of the  
10 script actually. So, I'd like to hear a little  
11 bit more of the mechanics. Because it does  
12 seem unfair that we're sort of simultaneously  
13 harmonizing. It seems unfair to this measure.

14 MS. WINKLER: Let me just add this.  
15 This is the reason we're going through them  
16 independently. Each one stands on its own, it  
17 gets rated as an individual measure.

18 Once we know they both meet the  
19 criteria then we can have that. If one of them  
20 doesn't we don't need to have that  
21 conversation. So that's why we're doing them

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1 first.

2 So that's exactly what we're going to  
3 do. So you need to get this one evaluated  
4 before we can go onto the next step of comparing  
5 them.

6 CO-CHAIR GUNNAR: Let's vote. Dr.  
7 Siperstein.

8 MEMBER SIPERSTEIN: I'd just like the  
9 developers to address the concern on the  
10 usability of this particular isolated measure.

11 If it's to assess the quality of the  
12 facility and you're only addressing a subset of  
13 the patient population doesn't that  
14 potentially negatively impact usability?

15 MS. SUTER: So this is Lisa Suter from  
16 Yale CORE.

17 Similar to the impact that existing  
18 Medicare claims-based mortality and  
19 readmission measures have had on readmission  
20 and mortality rates nationally and we are  
21 seeing particularly for AMI as well as for

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1 pneumonia and other conditions that public  
2 reporting of these measures among the Medicare  
3 population is influencing national rates.

4 It is likely that hospitals are not  
5 individually separating their quality  
6 improvement efforts out for the Medicare  
7 population, but they are responding to  
8 performance estimates across their hospital  
9 populations.

10 And it is likely that surgical care  
11 provided to Medicare populations particularly  
12 for CABG which is much more common in that age  
13 group are certainly a signal of quality of the  
14 hospital.

15 CO-CHAIR GUNNAR: For myself I  
16 appreciate the fact that there's an attempt to  
17 risk-adjust what could be just publicly  
18 reported unadjusted mortality rates. So,  
19 plain statement.

20 DR. BURSTIN: Also a couple of weeks  
21 ago the readmission committee reviewed the

1 claims-based CABG readmission measure as the  
2 same population. So there's also I think an  
3 issue of the harmonization to the related  
4 readmission measure I suspect as well.

5 MS. SUTER: And in terms of usability  
6 of this particular measure the intention is  
7 that it is appropriate to measure two domains  
8 of care across the same cohort.

9 And given that there is a claims-based  
10 readmission measure we think that it's  
11 important when your hospitals are focusing on  
12 things like reducing readmissions that  
13 unintended consequences such as short-term  
14 mortality are simultaneously measured to  
15 ensure that we are not influencing the wrong  
16 kinds of quality improvement efforts in our  
17 work to reduce readmissions.

18 CO-CHAIR GUNNAR: Any further  
19 discussion? Dr. Han.

20 MS. HAN: Hi, this is Lein Han from  
21 CMS.

1 I want to say that we implement the  
2 measure we also monitor the impact. And from  
3 what we saw from the analysis they have provided  
4 us and by the -- by others too we saw the  
5 reduction or decrease in the readmission and  
6 also improved the quality of care for the  
7 mortality.

8 Because we have a published paper on  
9 how AMI mortality, distribution of the AMI  
10 mortality I think narrowed and also shifted,  
11 the bell curve shifted to a lower mean.

12 So, I think in the national level  
13 because of the way CMS implemented national  
14 level. And we do see the impact and stimulated  
15 the quality improvement. I think this is very  
16 encouraging. Thank you.

17 CO-CHAIR GUNNAR: Any other comments?  
18 Let's vote. Usability and use.

19 MR. SANCHEZ: Voting will now begin  
20 for criteria 4 usability and use. One is for  
21 high, two is for moderate, three is for low,

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1 four is for insufficient. Timer starts now.

2 CO-CHAIR GUNNAR: So we need one more,  
3 is that right?

4 MR. SANCHEZ: Yes, I think we need one  
5 more.

6 CO-CHAIR GUNNAR: Can everybody do it  
7 one more time?

8 MR. SANCHEZ: We have 8 for high, 12  
9 for moderate, 3 for low, zero for insufficient  
10 information.

11 CO-CHAIR GUNNAR: So a vote for does  
12 the measure meet NQF criteria for endorsement.  
13 Any discussion before we vote? Go ahead.

14 MR. SANCHEZ: Voting will now begin  
15 for overall suitability for endorsement. One  
16 is for yes, two is for no. Timer starts now.

17 We have 22 for yes, 1 for no.

18 CO-CHAIR FLEISHER: Great. We're  
19 going to move onto measure 0264. As we  
20 continue we're going to have to balance a  
21 richness of the discussion with allowing all of

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1       these to be discussed since there are people in  
2       the room who have come to participate.  
3       Prophylactic intravenous antibiotic timing.  
4       Do we have -- is it Donna on the phone?

5               MS. SLOSBURG:   Yes, Donna is on the  
6       phone.

7               CO-CHAIR FLEISHER:   Great.    And  
8       who's the reviewer?  Fred, you can actually  
9       participate.  It's nice to have you back.

10              Donna, do you want to start with giving  
11     us a brief overview of the measure?

12              MS. SLOSBURG:    Sure.    I'm Donna  
13     Slosburg.  I apologize I couldn't be there in  
14     person.  I'm the executive director of the  
15     Ambulatory       Surgery       Center       Quality  
16     Collaboration.

17              This measure was 0264.    It's  
18     ambulatory surgery center admissions with an  
19     order for a prophylactic IV antibiotic for  
20     prevention of surgical site infection who  
21     received a prophylactic antibiotic on time.

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1           It was endorsed in 2007 and went  
2           through maintenance in 2012. I was listening  
3           in yesterday during all the discussion about  
4           the antibiotic measures, but unlike those other  
5           measures this measure has only been in use in  
6           the CMS Ambulatory Surgery Center Quality  
7           Reporting Program since October of 2012.

8           CMS did present the ambulatory surgery  
9           data regarding this measure on April 23 of this  
10          year. And timely use for calendar year 2013  
11          was at about 96 percent.

12          Again, this is a little different than  
13          the other measures. We are only in our second  
14          full year of reporting. And I'd be happy to  
15          answer any questions.

16          CO-CHAIR FLEISHER: Okay, Fred, do  
17          you want to take us through evidence?

18          MEMBER GROVER: I'd just like to  
19          perhaps ask the developer here a little bit on  
20          the level of analysis before we do that if I  
21          might.

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1           In terms of -- it's analyzed at the  
2           individual ambulatory surgery center level for  
3           349 centers, but the remainder of the total of  
4           the 671 centers are centers that report to a  
5           corporate system level.

6           Not having the information on those it  
7           would seem to me doesn't allow you to truly see  
8           the trends over time between sites. Could you  
9           maybe clarify that? Is that an issue? Or  
10          explain that to us?

11          MS. SLOSBURG: I have someone else on  
12          the phone as well. Kim, I don't know if Kim  
13          wants to take this question.

14          MS. WOOD: You are correct that when  
15          we initially developed this measure we had to  
16          rely on volunteers and we were able to recruit  
17          corporate volunteers and individual  
18          volunteers.

19          When you look at this measure,  
20          however, currently as it's being used in the ASC  
21          Quality Reporting Program that CMS has

1 developed these results are available to the  
2 centers at the individual center level as well  
3 as how they stand in comparison to the overall  
4 rate.

5 CO-CHAIR FLEISHER: So Fred, is the  
6 evidence different from the other antibiotic  
7 measures for this one?

8 MEMBER GROVER: Things get better.  
9 Yes, the evidence, I mean obviously this is a  
10 process measure. It's a timeliness the same  
11 being within one hour. They review a  
12 prospective study. Six were large  
13 observational, two were small and there were  
14 three randomized trials.

15 And their overall assessment was that  
16 there was good evidence. And I guess I would  
17 rate the overall evidence based on my  
18 assessment as moderate.

19 CO-CHAIR FLEISHER: Great. Can we --  
20 any comments? Yes, Barbara.

21 MEMBER LEVY: I just want to comment

1       that those papers are all in inpatient  
2       settings. And I'm not sure that we're clear on  
3       antibiotic prophylaxis in the outpatient  
4       setting. So, I agree with you, moderate at  
5       best. But in fact those data don't apply to  
6       this patient population in this setting.

7               MEMBER GROVER: Yes, and maybe again  
8       you might want to respond to that. But my take  
9       on that would be that's what they would say is  
10      one of the unique parts of this they want to see  
11      if those other measures apply to this.

12             MEMBER LEVY: Then they need to look  
13      at outcomes.

14             MEMBER GROVER: Yes.

15             CO-CHAIR FLEISHER: So, are you  
16      questioning whether the link to outcome is  
17      sufficient enough and therefore whether it even  
18      deserves a moderate in the outpatient setting  
19      because it's a different population.

20             MEMBER LEVY: I am, I just don't know  
21      that we have the data to provide the link.

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1 CO-CHAIR FLEISHER: Okay.

2 MEMBER CIMA: The question is is that  
3 this is an order for antibiotics but it doesn't  
4 question -- the real question is is it an  
5 appropriate order for antibiotics. So,  
6 anybody can write an order.

7 The measure says if you wrote the order  
8 we're going to give it within an hour. And it  
9 has a whole long list of antibiotics that  
10 probably shouldn't even be used in an  
11 outpatient setting.

12 So the real question is is it  
13 appropriateness. And there's no data to  
14 support in an outpatient setting like this in  
15 these ACSs whether or not in many of these cases  
16 whether you even need an antibiotic. So I  
17 agree, I'm not sure there's even evidence base  
18 to support this.

19 CO-CHAIR FLEISHER: So, can we get --  
20 Donna, can you or your colleague comment on --  
21 I assume this is a single measure of timing and

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1 not timing and choice. And whether or not  
2 there is evidence in the outpatient setting.

3 MS. WOOD: This is Kim and I'd be happy  
4 to address that. The first question raised was  
5 whether there is evidence of impact on surgical  
6 site infection outcomes in the outpatient  
7 setting. The answer is no.

8 There is no literature that we're  
9 aware of that looks at this in the outpatient  
10 setting.

11 The second question was about whether  
12 or not we were looking at the appropriateness  
13 of the selection of the antibiotic and no, we're  
14 not.

15 However, the way that we've designed  
16 this measure is such that we have attempted to  
17 make it, let me think of the right word,  
18 compatible perhaps with the physician measure.

19 And that's why you see the comparable  
20 list of antibiotics that ties in with the  
21 measure that the AMA PCPI has developed

1 regarding the selection of the antibiotic.

2 CO-CHAIR FLEISHER: That's not in the  
3 specifications currently, correct?

4 MS. WOOD: Yes.

5 CO-CHAIR FLEISHER: Okay. Rick?

6 MEMBER DUTTON: One of the things that  
7 might help clarify this is understanding what  
8 specific procedures this applies to. Since  
9 likely a lot of the literature does apply to the  
10 cases that are now being done in outpatient  
11 centers, things like laparoscopic  
12 cholecystectomies, a lot of GYN surgery,  
13 arthroscopies that were all inpatient back in  
14 the day when this literature was written about  
15 the value of prophylactic antibiotics.

16 So the problem here is understanding  
17 which cases this measure is intended to apply  
18 to. Because I think there is probably good  
19 evidence and it probably is appropriate for  
20 some of the cases being done in the outpatient  
21 center but not all.

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1 CO-CHAIR FLEISHER: But can you  
2 comment on the denominator inclusions?

3 MS. WOOD: So, the denominator is  
4 designed to strictly assess whether the  
5 facility administers antibiotics that are  
6 ordered for prophylaxis on time.

7 And again, since there is a measure  
8 that looks at the appropriateness of the  
9 physician's orders that can be used to assess  
10 the physician-level use these two can go hand  
11 in hand. But --

12 CO-CHAIR FLEISHER: My question is --

13 MS. WOOD: -- we're just looking --  
14 sorry?

15 CO-CHAIR FLEISHER: Do you have any  
16 exclusions or is it all procedures? Is the  
17 simple question.

18 MS. WOOD: No, it's all procedures for  
19 which --

20 CO-CHAIR FLEISHER: Thank you.  
21 Kelsey?

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1           MEMBER MCCARTY: Yes, just to follow  
2 up on Dr. Cima's comment. I'm wondering why  
3 it's limited to just IV antibiotics and not  
4 administration of all antibiotics. Because  
5 you're also getting a sample bias there.

6           CO-CHAIR FLEISHER: Any answer from  
7 the developer? I don't know if you --

8           MS. WOOD: It is written that way in  
9 order to be as harmonized as possible with the  
10 related physician measure.

11          CO-CHAIR FLEISHER: Collette?

12          MEMBER PITZEN: Just a measure design  
13 comment or observation. If it's based only on  
14 those patients that have an order for that there  
15 is some selection bias.

16               Perhaps if it was procedure-based then  
17 you'd be catching patients perhaps that should  
18 be receiving that antibiotic that are not.

19          CO-CHAIR FLEISHER: Thank you. I  
20 think, Fred, any comments before we vote?

21          MEMBER GROVER: Those are all good

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1        comments. And it's obvious that this is just  
2        to see about the timing of the antibiotics when  
3        the order's been written. It doesn't address  
4        whether the order should have been written or  
5        not written. So I think we're probably ready  
6        to vote on the evidence.

7                MR. SANCHEZ: Voting will now begin  
8        for 1a evidence. One is for high, two is for  
9        moderate, three is for low, four is for  
10       insufficient evidence with exception, five  
11       insufficient evidence. Timer starts now.

12               We have 1 for high, 7 for moderate, 12  
13       for low, 1 for insufficient evidence with  
14       exception, 2 for insufficient evidence.

15               CO-CHAIR FLEISHER: Okay, so this  
16       measure fails on evidence and therefore fails.  
17       Is that correct? We are moving onto the next  
18       measure. Thank you.

19               We need STS back. Who's doing 0126?

20               CO-CHAIR GUNNAR: Okay. So this is  
21       0126 Selection of Antibiotic Prophylaxis for

1 Cardiac Surgery Patients, Society of Thoracic  
2 Surgery. Dr. Jacobs?

3 DR. JACOBS: Well, good morning,  
4 again. Jeff Jacobs. This is again Selection  
5 of Antibiotic Prophylaxis for Cardiac Surgery  
6 Patients. It's a measure that reports the  
7 percentage of patients 18 years or older  
8 undergoing cardiac surgery who had an order for  
9 or received preoperative prophylactic  
10 antibiotics recommended for the operation.

11 The evidence base comes from a  
12 substantial body of literature about the value  
13 of the appropriate use of prophylactic  
14 antibiotics in prevention of infection and  
15 mediastinitis.

16 And I think that this is a previously  
17 endorsed measure that's coming up for renewal.  
18 And I think probably the evidence base has been  
19 discussed here extensively previously so I  
20 think I could just answer any questions.

21 MEMBER DUTTON: I was the primary

1 reviewer of the measure. The numerator is the  
2 antibiotic order is written. STS also  
3 assesses whether it was actually given. The  
4 denominator is all cardiac surgery patients  
5 over 18. I am not sure why the exclusion to  
6 adults only other than to note that there's  
7 little evidence in pediatric populations. The  
8 evidence is -- Jeff?

9 DR. JACOBS: Well, there's two  
10 reasons. The literature that supports this  
11 particular measure was developed based on  
12 patients over the age of 18.

13 There is a body of literature related  
14 to the use of prophylactic antibiotics for  
15 pediatric cardiac surgery, cardiac surgery in  
16 those less than 18. But it's not as  
17 substantial and the evidence base is not as  
18 solid.

19 And on top of that there's substantial  
20 variability in practice across the country that  
21 has been published and documented in a number

1 of published surveys about pediatric  
2 antibiotics. So consequently this measure is  
3 focusing on adults where there's a more solid  
4 evidence base.

5 In addition to that the pediatric  
6 population undergoing cardiac surgery is in a  
7 different component of the STS database. So  
8 this is an STS adult cardiac surgery database  
9 measure. And the congenital database has the  
10 patients that are less than 18.

11 CO-CHAIR GUNNAR: But just to be  
12 clear, adult congenital gets included in the  
13 adult population?

14 DR. JACOBS: That's a real question  
15 that we could spend the next hour and a half  
16 talking about. But the brief answer is that an  
17 adult congenital patient can end up in either  
18 database depending on what the predominant  
19 component of the operation is. And I'll give  
20 a couple of examples.

21 If a patient with a previous repair of

1 tetralogy of Fallot comes in and gets a coronary  
2 artery bypass graft that's going to end up in  
3 the adult cardiac database.

4 If a patient with a functionally  
5 interventricular heart that's had an atrial  
6 pulmonary connection comes into the hospital  
7 for a Fontan revision to a more hemodynamically  
8 favorable Fontan circuit at the age of 35 that  
9 would end up in the congenital database. So,  
10 it really depends on what the most predominant  
11 component to the operation is.

12 CO-CHAIR GUNNAR: But with regard to  
13 this measure would the latter be included or  
14 excluded from?

15 DR. JACOBS: This measure applies to  
16 all patients entered into the adult cardiac  
17 database.

18 CO-CHAIR GUNNAR: Only the adult.  
19 There you go.

20 MEMBER DUTTON: As far as the evidence  
21 goes I think the evidence is very strong

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1 connecting this process to prevention of  
2 particularly mediastinitis.

3 CO-CHAIR GUNNAR: Any other  
4 discussion? We'll go ahead and vote.

5 MR. SANCHEZ: Voting will now begin  
6 for 1a evidence. One is for high, two is for  
7 moderate, three is for low, four is for  
8 insufficient evidence with exception, five is  
9 for insufficient evidence. Timer starts now.

10 MEMBER GROVER: Just for the record  
11 I'll be abstaining from all the STS measure  
12 votes.

13 MR. SANCHEZ: We have 22 for high, 1  
14 for moderate, zero for low, zero for  
15 insufficient evidence with exception and zero  
16 for insufficient evidence.

17 MEMBER DUTTON: Regarding the  
18 opportunity for improvement the current  
19 performance on this measure is median of 99.2  
20 percent with 2.8 percent of providers  
21 identified as low performers.



1           This would meet our criteria from  
2           yesterday for being topped out. My opinion is  
3           it is an important measure. It should continue  
4           to be collected.

5           The cost to collect this in the  
6           registry setting is essentially zero as this  
7           one is as we were discussing earlier hardwired  
8           into the system and routinely collected.

9           And I think it is reasonable to  
10          continue to collect and report this particular  
11          measure, particularly when mortality from  
12          cardiac surgery is also at a very low level.  
13          That was 98 percent earlier and that measure was  
14          accepted by this group.

15          DR. JACOBS: And I would just add to  
16          that, first of all, I agree with everything that  
17          you said. And the other piece to consider is  
18          that the mortality associated with a  
19          postoperative infection after cardiac surgery  
20          as well as the morbidity of a postoperative  
21          infection after cardiac surgery is

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1 substantial, perhaps worse than almost any  
2 other postoperative infection.

3 Postoperative mediastinitis is a big  
4 deal. People die from it. Those that survive  
5 are often in the hospital for months and months  
6 requiring multiple operations.

7 CO-CHAIR GUNNAR: Dr. Yates?

8 MEMBER YATES: Since the inception of  
9 this particular measure there's been greater  
10 utilization of MRSA screening in some surgical  
11 subspecialties.

12 And my question to you, does the STS  
13 database or registry allow for the recording of  
14 the actual antibiotic used as opposed to being  
15 checked off as appropriate. And does it also  
16 allow for, as an exclusion criteria for the use  
17 of a first or second generation cephalosporin,  
18 the fact that the patient may be MRSA-positive?

19 And I ask this in the sense that a  
20 performance gap could be discerned over time in  
21 terms of mediastinitis rates based on whether

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1 or not, for instance, clindamycin or vancomycin  
2 are used versus whether or not people are  
3 screened for MRSA.

4 So, given the fact that those are  
5 potential end uses which are not part of this  
6 measure which is looking at whether or not  
7 appropriate antibiotics have been given is the  
8 granularity within the system so that that  
9 could be an outcome that would justify  
10 continuing to make this an important measure?

11 DR. JACOBS: So, currently no, but  
12 that's certainly an excellent idea for an area  
13 of future investigation within the database.  
14 I think that's a great idea.

15 Currently we track whether or not the  
16 appropriate antibiotics are given and there's  
17 a whole list of criteria on what's appropriate  
18 and what's not based on the evidence base. But  
19 I think what you're suggesting is a great area  
20 of future investigation.

21 CO-CHAIR GUNNAR: So, the question,

1 Dr. Jacobs, if this process measure was placed  
2 on reserve is it from STS's perspective that  
3 mediastinitis or the rate of mediastinitis  
4 would really be the end -- it's the end goal,  
5 correct? That's the quality goal.

6 So the question is if this fails or is  
7 placed on reserve based on the performance gap  
8 which is insignificant at this point my  
9 question is isn't -- you still stand on the  
10 NQF-endorsed measure of outcome of  
11 mediastinitis, correct?

12 DR. JACOBS: Well, absolutely, we  
13 have our NQF-endorsed measure of mediastinitis  
14 which is also a component of the NQF-endorsed  
15 composite score. So that's all important.

16 The only thing I would add is that  
17 clearly the major endpoint here is prevention  
18 of postoperative mediastinitis.

19 But there's also some subtle endpoints  
20 regarding use of appropriate antibiotics and  
21 prevention of overuse of inappropriate

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1 antibiotics that could lead to development of  
2 multiple resistant strains of organisms within  
3 hospitals.

4 So, by choosing the appropriate  
5 antibiotic there's more endpoints than just  
6 preventing mediastinitis. There's also  
7 preventing using the wrong antibiotics which  
8 could then lead to a variety of other problems  
9 within the hospital.

10 MR. SHAHIAN: This is Dave Shahian.  
11 The only other point is that the endpoint of  
12 major interest which is internal infection of  
13 mediastinitis occurs with an average incidence  
14 of about 0.3 percent.

15 So it's a devastating but  
16 exceptionally rare outcome and it is very hard  
17 to distinguish levels of performance based on  
18 something that occurs that infrequently. So I  
19 think it's a reason for considering a process  
20 measure in this case.

21 MEMBER DUTTON: Yes, I would echo

1       that. And one of the reasons I think we should  
2       reconsider our stance on some of the topped-out  
3       process measures is that the processes are  
4       measurable and improvable above 98 percent  
5       whereas the actual outcome which is, as you just  
6       heard, 3 per 10,000 is not measurable.

7               MEMBER CIMA: It's the same case  
8       though for all other patients having surgery.  
9       Or did we decide yesterday something different?

10              DR. JACOBS: I think the only  
11       differentiator here is the potential severity  
12       of the postoperative infection for cardiac  
13       surgery is probably an order of magnitude worse  
14       than most postoperative infections. So that  
15       makes it a little bit bigger of a deal.

16              And you know, regarding the concept of  
17       topped out, I would just add that mediastinitis  
18       is exceedingly rare, less than 1 percent, maybe  
19       0.3 percent.

20              But this measure allows evaluation of  
21       quality of care to the remaining 99.7 percent

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1       who don't get mediastinitis. Their quality of  
2       care is evaluated by assuring that they get the  
3       right antibiotics.

4               And it really does effect a change in  
5       the behavior of the operating room team.  
6       During the timeout, one has a timeout to make  
7       sure the right antibiotic was given at the right  
8       time. And that, a lot of it is because of this  
9       measure. And I'd sure hate to see that go away.

10              MS. WINKLER: I just want to make one  
11       comment. You're talking about a lot of things  
12       that are outside this current criteria which is  
13       the gap that may be appropriate in some of the  
14       other criteria. So I'd really ask you to focus  
15       in. Right now we're talking about performance  
16       gap.

17              And I would also caution you that the  
18       criteria should be applied equitably and  
19       equally along all the measures. So, you know,  
20       the question about gap is the same question for  
21       each measure. There may be some of these

1 issues you're raising apply in other criteria  
2 that would be appropriate.

3 CO-CHAIR GUNNAR: Dr. Temple?

4 MEMBER TEMPLE: I have a gap question.  
5 The current measure includes received and  
6 ordered. And what I'm wondering is in your  
7 data set are you seeing a gap -- if we separate  
8 the received and ordered are you seeing a gap  
9 in the number of patients receiving the  
10 antibiotic? Because really that's the real  
11 gap that may be a potential place for  
12 improvement.

13 DR. JACOBS: I think that's a good  
14 question. We track both. But I don't know  
15 that we've looked at the gap between received  
16 and ordered.

17 MEMBER TEMPLE: Because I think that  
18 if we're looking -- if there's any gap that  
19 would be the gap that would be important for us  
20 to consider in looking and evaluating this.

21 CO-CHAIR GUNNAR: Ms. McCarty?



1           MEMBER MCCARTY: I'm wondering if you  
2 know of the estimated 0.3 percent of patients  
3 who do end up with mediastinitis, what  
4 percentage of those failed this measure of  
5 getting the right antibiotic on time.

6           DR. JACOBS: That's another good  
7 question. I don't know that we've looked at  
8 that.

9           CO-CHAIR GUNNAR: Dr. Yates?

10          MEMBER YATES: I don't know if STS can  
11 answer this, but just as a point of  
12 clarification. And this is an impact as  
13 opposed to a gap question but it ties into the  
14 conversation.

15                It's not so much the current rate of  
16 mediastinitis as reported. It would be the  
17 rate of mediastinitis that you would have  
18 without antibiotics.

19                The corollary is in total hip  
20 replacement it's a 5 percent incidence of  
21 infection without antibiotics and 1 percent

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1 with. So the real question is what would be the  
2 consequence for the population of patients as  
3 was already asked that didn't get it and what's  
4 their risk.

5 And in addition to mediastinitis  
6 there's a certain amount of morbidity and a cost  
7 that's not inconsequential from graft harvest  
8 sites which have a higher infection rate and are  
9 certainly probably affected by antibiotic  
10 administration.

11 DR. JACOBS: Sure. There's graft  
12 harvest site infections. There's infections  
13 of prostheses like prosthetic valve infections  
14 and endocarditis. The big one is the  
15 mediastinitis but there are other  
16 postoperative infections, I would agree with  
17 that.

18 CO-CHAIR GUNNAR: All right.  
19 Collette?

20 MEMBER PITZEN: I'm sorry, I'm going  
21 to sound like a broken record but I just want

1 to beg the question. We're asked to evaluate  
2 the rate in the data that we're seeing for this  
3 measure as it's specified, and at 99.2 percent  
4 where is there to go from there?

5 DR. JACOBS: I'd answer that with the  
6 same answer that other panel members provided  
7 yesterday. 99.2 percent seems pretty high but  
8 it would be totally unacceptable in the airline  
9 industry and I think it should be totally  
10 unacceptable in the cardiac surgery operating  
11 room.

12 CO-CHAIR GUNNAR: Noted. All right.  
13 We'll go onto vote. Oh, I'm sorry. Ms. Moyer.

14 MEMBER MOYER: I just wanted to go  
15 beyond just the 99.2 percent. We're at 100  
16 percent performance on this measure by the 30th  
17 percentile. So, it's not just the overall  
18 measure performance, it's looking at the  
19 variation within those percentiles.

20 You have to go to the bottom decile to  
21 get below 98 percent. And I know that's not

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1 acceptable for the airplane industry although  
2 I'd get on a plane -- we're all getting on planes  
3 tonight but we're not all going to have CABGs  
4 tonight. It's a different risk between the  
5 two.

6 DR. JACOBS: Sure, but patients are  
7 going to that bottom decile to have their CABG.  
8 And there are patients that actually have their  
9 CABG there.

10 MEMBER MOYER: That's true.

11 DR. JACOBS: And I think that  
12 emphasizes the importance of this.

13 MEMBER MOYER: And I think it's  
14 important from a QI perspective. I absolutely  
15 think it should still be available to those  
16 hospitals.

17 But I mean, from a gap perspective I'm  
18 just not really seeing, you know, if we want to  
19 be consistent with what we did yesterday I'm not  
20 seeing it.

21 CO-CHAIR GUNNAR: That is the

1 instruction. So, shall we vote?

2 MR. SANCHEZ: Voting will now begin  
3 for 1b performance gap. One is high, two is  
4 moderate, three is low, four is insufficient.  
5 Timer starts now.

6 We have 1 for high, 5 for moderate, 16  
7 for low, 1 for insufficient.

8 CO-CHAIR GUNNAR: So, at this point we  
9 then ask is the committee by a raise of hands  
10 willing to consider this as a reserve measure?  
11 Yes. All yeses in the air. How many is that?

12 (A show of hands)

13 MEMBER MCCARTY: In the same way we  
14 evaluate measures to determine if we should  
15 have more than one of the competing measures,  
16 if we move measures into reserve status do we  
17 do the same thing for those?

18 MS. WINKLER: Yes.

19 MEMBER MCCARTY: Okay.

20 CO-CHAIR GUNNAR: So, we have 20 yeses  
21 and so we'll carry on.

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1           MEMBER DUTTON:     As far as the  
2     reliability of the measure goes this is a  
3     measure renewal. The mechanism for collecting  
4     the data has not changed in decades. So it is  
5     -- it remains reliable and --

6           MR. SANCHEZ:    Sorry, Dr. Dutton, high  
7     priority first.

8           MEMBER DUTTON:   Oh, sorry, priority.  
9     This is important.

10           (Laughter)

11           CO-CHAIR GUNNAR:     Any further  
12     discussion? I think that discussion actually  
13     we've had so we can carry on.

14           MR. SANCHEZ:    Voting will now begin  
15     for 1c high priority. One is for high, two is  
16     for moderate, three is for low, four is for  
17     insufficient. Timer starts now.

18           CO-CHAIR GUNNAR:   Dr. Ko has stepped  
19     out so there will only be -- and Dr. Grover has  
20     recused himself. I think that's correct at 21.

21           MR. SANCHEZ:    We have 17 for high, 3

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1 for moderate, zero for low, 1 for insufficient.

2 MEMBER DUTTON: Sorry, I now  
3 recommend that this measure is reliable.

4 CO-CHAIR GUNNAR: And any further --  
5 we've had that discussion numerous times.  
6 Shall we vote?

7 MR. SANCHEZ: Voting will now begin  
8 for 2a reliability. One is for high, two is for  
9 moderate, three is for low, four is for  
10 insufficient. Timer starts now.

11 We have 17 for high, 4 for moderate,  
12 zero for low, zero for insufficient.

13 CO-CHAIR GUNNAR: We've discussed the  
14 validity of the STS data at great length and I  
15 believe it is highly valid.

16 CO-CHAIR GUNNAR: Go ahead and vote.

17 MR. SANCHEZ: Voting will now begin  
18 for 2b validity. One is for high, two is for  
19 moderate, three is for low, four is for  
20 insufficient. Timer starts now.

21 We have 21 for high, 1 for moderate,

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1 zero for low and zero for insufficient.

2 MEMBER DUTTON: The feasibility of  
3 STS data collection has also been discussed.  
4 This requires a substantial investment by the  
5 institution in doing it but in this  
6 high-profile area this has been justified.

7 And I think indicated by the fact that  
8 that 90 to 95 percent of all institutions do  
9 participate in this. I think it's been  
10 adjudged to be usable for the institution.

11 Given that mechanism this data is very  
12 feasible to collect and as I say pretty much  
13 hardwired. This will eventually transmit  
14 directly from the electronic records.

15 CO-CHAIR GUNNAR: Any further  
16 discussion? We'll go ahead and vote.

17 MR. SANCHEZ: Voting will now begin  
18 for criteria 3 feasibility. One for high, two  
19 is for moderate, three is for low, four is for  
20 insufficient. Timer starts now.

21 We have 14 for high, 9 for moderate,



1 zero for low, zero for insufficient.

2 MEMBER DUTTON: Regarding usability I  
3 think the decade-long history of this measure  
4 with substantial improvement in performance  
5 over that time indicates that it is usable to  
6 drive improvements in performance at the local  
7 facility and practice level.

8 I have one additional thought for STS  
9 which is it might perhaps be appropriate at some  
10 point to create a composite of process measures  
11 as well as the composite of outcomes. In other  
12 words, what would be a bundle of good  
13 performance as a process measure that may be  
14 more discriminating than the individual  
15 measures themselves.

16 DR. JACOBS: I think that's an  
17 excellent idea.

18 CO-CHAIR GUNNAR: Any other  
19 discussion? Hearing none let's vote on  
20 usability and use.

21 MR. SANCHEZ: Voting will now begin

1 for criteria 4 usability and use. One is for  
2 high, two is for moderate, three is for low,  
3 four is for insufficient information. Timer  
4 starts now.

5 We have 14 for high, 5 for moderate,  
6 3 for low, 1 for insufficient information.

7 CO-CHAIR GUNNAR: And so the overall  
8 suitability for reserve status. Any further  
9 discussion? Let's go ahead and vote on that.

10 MR. SANCHEZ: Voting will now begin  
11 for potential for reserve status. One is for  
12 yes, two is for no. Timer starts now.

13 We have 22 for yes, 1 for no.

14 CO-CHAIR GUNNAR: So the  
15 recommendation of the committee is that this  
16 measure be placed in reserve status.

17 CO-CHAIR FLEISHER: Okay, we're going  
18 to keep you here. We're going to keep you here.  
19 We have five minutes left before the break to  
20 get through 0128. Who's the discussant?  
21 Okay. So, similar measure. Jeff, it's all

1       yours.

2               DR. JACOBS:     This is duration of  
3       antibiotic prophylaxis for cardiac surgery  
4       patients.  It's a partner measure to the one we  
5       previously discussed, percent of patients over  
6       the age of 18 undergoing cardiac surgery where  
7       prophylactic antibiotics were ordered to be  
8       discontinued or were discontinued within 48  
9       hours after cardiac surgery end time.

10              CO-CHAIR FLEISHER:  Evidence.

11              MEMBER REEDE:    Thank you.    So the  
12       evidence for this measure is similar to all that  
13       we have looked at from the STS database.  I  
14       believe it would be rated moderate to high.  If  
15       we want to discuss more I can.

16              CO-CHAIR     FLEISHER:            Comments?  
17       Questions?  Okay, let's rate the evidence.

18              MR. SANCHEZ:   Voting will now begin  
19       for 1a evidence.  One is for high, two is for  
20       moderate, three is for low, four is for  
21       insufficient evidence.  The timer starts now.

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1 CO-CHAIR GUNNAR: Can you try to vote  
2 one more time?

3 MR. SANCHEZ: We have 17 for high, 5  
4 for moderate, zero for low, zero for  
5 insufficient evidence.

6 MEMBER REEDE: As is indicative of all  
7 the successful measures this too is probably  
8 topped out with a minimal gap in performance.

9 CO-CHAIR FLEISHER: Any comment,  
10 Jeff?

11 DR. JACOBS: No, same comment as  
12 before. The performance gap is minimal but the  
13 stakes are high because postoperative  
14 mediastinitis is a bad infection.

15 CO-CHAIR FLEISHER: Okay, vote.

16 MR. SANCHEZ: Voting will now begin  
17 for 1b performance gap. One is high, two is  
18 moderate, three is low, four is insufficient.  
19 Timer starts now.

20 We have 1 for high, 4 for moderate, 17  
21 for low, 1 for insufficient.

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1 CO-CHAIR FLEISHER: Okay, as is our  
2 tradition now how many would like to put this  
3 on reserve status as opposed to -- okay. I'm  
4 going to short-circuit the discussion and ask  
5 is there anything different that anyone would  
6 like to discuss regarding any of the other  
7 criteria for this measure? Any?

8 MEMBER MOYER: I just have one quick  
9 question. For the bottom decile of hospitals  
10 if I'm reading this correctly, there's two and  
11 they scored zero percent? That's not a data  
12 error? They're literally not hitting this  
13 measure ever?

14 MR. O'BRIEN: I don't know the details  
15 of those particular sites but I think it's  
16 possible that perhaps is a data error.

17 DR. JACOBS: It could be a data error.  
18 Could be low-volume sites that aren't doing a  
19 lot of CABGs and just haven't complied.  
20 Without going back and looking at the  
21 individual records it's impossible to know.

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1 CO-CHAIR FLEISHER: Can you please  
2 take us through each vote?

3 MR. SANCHEZ: Voting will now begin  
4 for 1c high priority. One is for high, two is  
5 for moderate, three is for low, four is for  
6 insufficient. Timer starts now.

7 We have 17 for high, 6 for moderate,  
8 zero for low, zero for insufficient.

9 MR. SANCHEZ: Voting will now begin  
10 for 2a reliability. One is for high, two is for  
11 moderate, three is for low, four is for  
12 insufficient. Timer starts now.

13 We have 17 for high, 5 for moderate,  
14 1 for low, zero for insufficient.

15 MR. SANCHEZ: Voting will now begin  
16 for 2b validity. One is for high, two is for  
17 moderate, three is for low, four is for  
18 insufficient. Timer starts now.

19 We have 17 for high, 5 for moderate,  
20 zero for low, zero for insufficient.

21 MR. SANCHEZ: Voting will now begin

1 for criteria 3 feasibility. One is for high,  
2 two is for moderate, three is for low, four is  
3 for insufficient. Timer starts now.

4 CO-CHAIR GUNNAR: We still need a  
5 couple of more votes.

6 MR. SANCHEZ: We have 14 for high, 9  
7 for moderate, zero for low, zero for  
8 insufficient.

9 Voting will now begin for criteria 4  
10 usability and use. One is for high, two is for  
11 moderate, three is for low, four is for  
12 insufficient information. Timer starts now.

13 We have 12 for high, 8 moderate, 3 low,  
14 zero insufficient information.

15 Voting will now begin for potential  
16 for reserve status. One is for yes, two is for  
17 no. Timer starts now.

18 We have 22 for yes, 1 for no.

19 CO-CHAIR FLEISHER: On that note we  
20 are only four minutes behind with one measure  
21 behind. So we keep it at 10:45 to restart so

1       that we can continue to stay on time. Thank  
2       you.

3               (Whereupon, the foregoing matter went  
4       off the record at 10:32 a.m. and went back on  
5       the record at 10:46 a.m.)

6               CO-CHAIR GUNNAR:    So the expertise  
7       measure       is       0131       Risk-adjusted  
8       Stroke/Cerebrovascular Accident, STS.    Dr.  
9       Jacobs.

10              DR. JACOBS:   Hi, good morning again.  
11       Jeff Jacobs again.    This is measure 0131  
12       Risk-adjusted       Stroke/Cerebrovascular  
13       Accident.    It reports the percentage of  
14       patients over the age of 18 undergoing isolated  
15       coronary artery bypass grafting who have a  
16       postoperative stroke, i.e., any confirmed  
17       neurologic deficit of abrupt onset caused by a  
18       disturbance of blood flow to the brain that did  
19       not resolve within 24 hours.

20              This measure is being considered as an  
21       individual measure now but it's also part of our



1 composite measure for coronary artery bypass  
2 grafting as well.

3 It has a low percentage of occurrence  
4 but the consequences are devastating, very  
5 similar to postoperative mediastinitis.

6 The measure has been publicly reported  
7 in the composite. It's also utilized for a  
8 variety of quality improvement initiatives and  
9 in fact STS currently has a stroke workgroup  
10 within the STS task force of quality  
11 improvement that is trying to identify  
12 variables that are present in hospitals with  
13 very low stroke rates so that those variables  
14 can be shared across across the breadth of STS.

15 And I think that summarizes the use of  
16 the measure as well as its scientific basis.  
17 And I think I can answer any questions.

18 CO-CHAIR GUNNAR: Discussant?

19 MEMBER ASHER: So as mentioned this  
20 was -- this is an outcomes measure that was  
21 originally endorsed in 2007, most recently in

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1 2011.

2 With respect to evidence several  
3 studies were referenced by STS. Specifically  
4 studies that document reductions in the rates  
5 of stroke post CABG with implementation of  
6 various preoperative strategies.

7 They also demonstrated that the  
8 implementation of these modalities is highly  
9 variable among groups performing CABG and also  
10 that the stroke rates are significantly  
11 variable.

12 The conclusion was many opportunities  
13 exist to decrease stroke rates by increasing  
14 implementation of these evidence-based  
15 strategies. And I think that there is  
16 sufficient information here to suggest a  
17 relationship between the measured outcome and  
18 a number of different healthcare processes.

19 CO-CHAIR GUNNAR: Any discussion?  
20 Vote on evidence.

21 MR. SANCHEZ: Voting will now begin

1 for 1a evidence. One is for yes, two is for no.  
2 Timer starts now.

3 CO-CHAIR GUNNAR: Let the record show  
4 Dr. Grover has recused himself.

5 MR. SANCHEZ: We have 23 yes, zero no.

6 MEMBER ASHER: With respect to  
7 performance gap it's already been mentioned  
8 that the stroke rate is low perhaps due to the  
9 implementation of this measure. But that does  
10 represent a somewhat limited opportunity for  
11 improvement.

12 In addition, and as we'll discuss in  
13 more detail in a few minutes in the empirical  
14 validity testing section almost all  
15 participants fall into the mid-performance  
16 category. And I mean like 99 percent  
17 participants. So in that regard this doesn't  
18 provide an opportunity for a lot of distinction  
19 between providers.

20 So we've had this conversation in the  
21 context of a number of these different measures

1 but this one in particular seems to have a lot  
2 of providers falling within one particular  
3 category which is that moderate range.

4 So I would rank this as low to moderate  
5 on the basis of the room that we have for further  
6 performance improvement.

7 CO-CHAIR GUNNAR: So, I need some  
8 clarification here because on a performance  
9 metric the act of doing something in  
10 relationship to, you know, the outcome.

11 We can easily see that if you're giving  
12 antibiotics 99 percent of the time that's one  
13 thing. That's different from evaluating the  
14 outcome itself. So the outcome here is low.  
15 The measurement of that outcome you would look  
16 at as does -- so the question is as part of this  
17 registry it is mandatory that you assess  
18 whether or not this outcome occurred. I don't  
19 think the two equate.

20 MS. WINKLER: I think it's an  
21 excellent question. I'd ask the same question

1       myself is, you know, when you're looking at  
2       important outcomes does it matter that  
3       everybody's doing well, or is that a  
4       particularly good thing?

5               And I think particularly in these  
6       low-incidence adverse outcomes we see a lot of  
7       this in patient safety. Don't you, Andrew?  
8       Andrew oversees our patient safety portfolio.  
9       And so this is not an unusual situation to have  
10      low incidence, and in fact that's highly  
11      desirable.

12             So I think you're right to ask the  
13      question that when it comes to desirable  
14      outcome measures can you -- the whole concept  
15      of topped out doesn't really I think have the  
16      same meaning as it does with a process measure.

17             So, I don't know if Helen wanted to  
18      weigh in on that either. The question about  
19      high levels of performance with outcome  
20      measures.

21             DR. BURSTIN:     In general outcome

1 measures that are considered safety events,  
2 even low-volume, are still very appropriate to  
3 track just because they're important adverse  
4 events. So we don't worry as much about low  
5 events there.

6 MEMBER ASHER: Well, then is there an  
7 issue here about the way performance is being  
8 evaluated? Over 99 percent of people are  
9 falling into a particular performance  
10 category.

11 So, if we're looking at -- I mean, what  
12 is the gap we're looking for? If we're looking  
13 at a gap among providers there just isn't much  
14 of a gap among providers even in achieving this  
15 particular outcome. So, I'm just looking at a  
16 way of assessing this particular measure.

17 CO-CHAIR GUNNAR: Let me take Dr.  
18 Asher to the logical endpoint which is tomorrow  
19 there is no more postoperative stroke. Does  
20 the measure then become irrelevant?

21 DR. JACOBS: And I would say even if

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1       there was no more postoperative stroke it's  
2       still a very relevant thing to keep track of  
3       because a stroke is a devastating event.

4               MEMBER ASHER: I think that it would  
5       only -- we've made some arguments about some  
6       things that are either intermediate outcomes or  
7       performance measures and talked about how  
8       various healthcare processes have just become  
9       part of what we do.

10              And so if everybody is doing those  
11       things then the question would be are those  
12       hardwired into the processes of taking care of  
13       patients with cardiothoracic surgical issues.  
14       And I don't know the answer to that.

15              But all I know is that most people are  
16       now -- we have low rates. Most people are  
17       falling into one category.

18              So I'm just trying to find a way for  
19       us to logically address this issue. Is there  
20       a performance gap.

21              MS. WINKLER: Just from sort of a

1 perspective on the criteria I think you've  
2 raised an important question around dealing  
3 with very important adverse outcomes that are  
4 very low incidence, thank you.

5 And so the issue around the gap I think  
6 becomes less of a criteria under these  
7 circumstances. But we haven't provided that  
8 guidance for you.

9 Andrew, I'm just wondering in terms of  
10 your patient safety issues around this where  
11 have they gone?

12 MR. LYZENGA: I mean, typically we  
13 haven't had much pushback on endorsement of  
14 low-incidence adverse outcomes.

15 I don't want to push us into this area  
16 but there has been discussion often about the  
17 application of those measures subsequently.  
18 Which is again maybe not in the purview of this  
19 committee. Some people feel they're not as  
20 suitable for, say, accountability purposes.  
21 But again, I don't want to get us into that

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1 discussion necessarily. That's my impression  
2 of the previous discussions on this kind of  
3 issue.

4 CO-CHAIR GUNNAR: So if it's all right  
5 we'll start on that side of the room and then  
6 we'll work to this side of the room. So, Dr.  
7 Saigal.

8 MEMBER SAIGAL: I was just going to  
9 say that I think that a performance gap in terms  
10 of it being an outcome measure is still  
11 important to report because I think that  
12 consumers do look for these things. And even  
13 if it's a very low rate I think it's meaningful  
14 to people that are looking for surgeons and for  
15 hospitals.

16 MEMBER PITZEN: Collette Pitzen. As  
17 the naysayer on high-performing measures I do  
18 have different feelings about outcome  
19 measures. I do think that they do have their  
20 place. They may not be well suited for  
21 accountability in trying to differentiate

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1 performance between practices but I think that  
2 there's value there. I just wanted to share  
3 that. Thank you.

4 MEMBER MOSS: The significance of  
5 this event justifies continued measurement and  
6 reporting.

7 But in the patient safety world  
8 there's some increased effectiveness for  
9 reporting very low-rate events as days between  
10 last event versus proportional percentage  
11 rate. There are some statistical advantages  
12 to that. It tends to make it more meaningful  
13 to the stakeholders.

14 MEMBER DUTTON: I'm kind of concerned  
15 by the double standard here, why an outcome  
16 measure is not topped out but a process measure  
17 would be.

18 If you think about it the process is  
19 actually a much more controllable thing. As a  
20 consumer I recognize, and in fact it's part of  
21 the informed consent, I could have a stroke as

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1 part of my CABG.

2 But if I thought that my doctor wasn't  
3 going to give me the antibiotics which is  
4 something that's completely under his control  
5 I would be much more upset about that as a  
6 consumer of healthcare.

7 CO-CHAIR GUNNAR: Dr. Ko.

8 MEMBER CIMA: Just to go to the point  
9 though. Outcome measures are important but  
10 99-plus percent of people have the same rate.  
11 So it's not really a good tool for  
12 distinguishing. It is part of composite  
13 measure which is probably a more realistic one  
14 to provide.

15 And it's not like this measurement is  
16 going to go away. It's going to be in the STS  
17 database. And the purpose of the STS database,  
18 it's you have individual practices look at  
19 their performance and say, boy, we're a high  
20 outlier in stroke maybe.

21 So the purpose of collecting this at

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1 a national level and reporting it as an  
2 individual measure, I feel if it's 99 percent  
3 it's non-distinguishable. It is somewhat  
4 topped out in that sense.

5 And it's not like it's going to stop  
6 being measured.

7 DR. JACOBS: I would say that beyond  
8 the star rating again there's a percentage of  
9 stroke that's also reported which provides  
10 additional information. So it's not just the  
11 information one gets from one-star, two-star,  
12 or three-star, but the more granular data with  
13 the actual numbers that support that.

14 I would also say that at the present  
15 point in time every component of our composite  
16 ratings are NQF-endorsed measures. So our  
17 composites are all made up of all NQF-endorsed  
18 measures.

19 And if -- we've not had a situation  
20 where any of the domains of the composites are  
21 non-NQF endorsed measures up till now. In the

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1 CABG composite there's 11 domains -- there's 11  
2 measures that divide into 4 domains and those  
3 are all NQF-endorsed measures.

4 MEMBER KO: My question goes to  
5 exactly that. And maybe this is -- maybe we can  
6 get some guidance from the NQF.

7 It seems like everyone is going to move  
8 towards composites. So, do we need each of  
9 this component of the composite to be  
10 NQF-endorsed?

11 Because then we're suddenly, I mean  
12 each little part by itself might not mean as  
13 much as the whole together. So how do we do  
14 this?

15 DR. BURSTIN: Yes, that's actually a  
16 helpful question. So we updated our composite  
17 measure evaluation guidance about a year ago  
18 and in fact changed, and this is a change from  
19 the prior time. We looked at the STS composite  
20 that we no longer require the individual  
21 elements within a measure to be endorsed, or

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1 actually really more so want to see how they --  
2 we're actually asking for more of the  
3 evaluation at the composite level, how those  
4 come together.

5 And in fact, I think some of the issues  
6 around low gap here will come up in reliability  
7 and validity potentially is where we often see  
8 that some of these very low-volume events have  
9 a difficult time of being reliable on their own,  
10 although can be good when you combine them with  
11 other safety events.

12 I will say though that we did do a  
13 report three or four years ago specifically on  
14 the issue of low-volume safety events. And  
15 recognized -- and the point that was just given  
16 by Dr. Moss was exactly right, that there are  
17 different ways to display safety events that  
18 are still meaningful even if they are low  
19 volume. So changing the denominator.  
20 Changing the days since last central line  
21 infection.

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1           And I'm actually curious, and Andrew  
2           may know this, but for example, in our  
3           evaluation of the AHRQ patient safety  
4           indicators just a couple of weeks ago I think  
5           the denominator was actually different because  
6           it's more, for example, I think it may even be  
7           per 1,000 discharges.

8           So there are different ways to display  
9           that data that still may be very informative to  
10          patients and purchasers. And I'd be curious to  
11          hear Amy's perspective in particular of even if  
12          it's low-volume is it enough to say it's 3 per  
13          1,000 versus 6 per 1,000 as they're making some  
14          of those decisions.

15          So very good point. I'm happy to  
16          share around that paper, this work that was done  
17          several years ago specifically on the  
18          low-volume safety events because I think it's  
19          becoming more and more relevant right now.

20                 CO-CHAIR GUNNAR: Dr. Yates?

21                 MEMBER YATES: To the question as to

1       whether or not the outcomes at a low rate are  
2       equivalent to process measures, 99 percent of  
3       patients can expect to get a total hip or a total  
4       knee replacement without infection. But that  
5       1 percent is something that we strive to be 0.5  
6       percent. We strive to be 0.3 percent.

7               And I would argue that at this part of  
8       the composite that is STS, that being stroke,  
9       is an outcome that the stakeholder or patient  
10      might, depending on their value system, see as  
11      a fate as bad or as worse than death depending  
12      on how badly the stroke turns out. And they're  
13      different for the rest of their life.

14             And so if you have 10,000 coronary  
15      artery bypasses and you have a 1 percent rate,  
16      and you have 100 people that have a stroke, the  
17      goal would be to make it 20, or make it 10, or  
18      make it zero.

19             I would argue that outcomes of this  
20      sort are never really a never event, but the  
21      goal should be to hit never. And as such

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1 carving down from 99 percent to 99.9 percent  
2 would be an important goal. And I think it's  
3 worth keeping this and keeping this as an  
4 important endpoint.

5 I'm sure that cardiac surgeons when  
6 they have someone with a stroke it's similar to  
7 looking for the black box after a plane crash.  
8 They go back with a fine-toothed comb trying to  
9 figure out where it went wrong. And I think  
10 it's important to have this.

11 DR. JACOBS: I would agree with that.  
12 And I would just add that the logic that we used  
13 earlier this morning to endorse risk-adjusted  
14 operative mortality really applies here. It's  
15 the same exact arguments as far as the  
16 percentage of occurrence of the event.

17 So if one were to be consistent with  
18 what we did this morning the same logic would  
19 apply here. It's subject to the same  
20 criticisms.

21 CO-CHAIR GUNNAR: Dr. Fleisher?

1 CO-CHAIR FLEISHER: Yes, I would  
2 agree with Dr. Yates and just say that you could  
3 also think of this as a patient-reported  
4 outcome. It's actually the patient is  
5 reporting a functional status change which  
6 leads -- but that's the difference between what  
7 some of the other outcomes say. It's not --  
8 I'll leave it there.

9 DR. BURSTIN: Just one more comment.  
10 I was just checking in with Karen Pace who's our  
11 lead methodologist reminding me that again,  
12 performance gap says considerable variation or  
13 less than optimal performance.

14 So I guess the question for STS is if  
15 you think there's, you know, is there variation  
16 across providers. And that's an adequate  
17 reason as well for the performance gap. So,  
18 perhaps a question for you guys.

19 MR. O'BRIEN: I'll just weigh in from  
20 the statistician's perspective.

21 In terms of the variation across

1 providers I don't have the numbers in front of  
2 me. But what's being reported in the table  
3 there is the distribution of the estimates of  
4 performance over providers. Those are  
5 generated from that hierarchical model which  
6 has the property of the estimates in the  
7 presence of a moderate sample size. To the  
8 extent there's uncertainty about the  
9 estimates, the estimates are shrunk back  
10 towards the average. So it's substantially  
11 underestimating the true amount of spread  
12 between participants. If each participant had  
13 vast numbers of cases you'd actually see a much  
14 wider distribution.

15 And for a lot of the outcome measures  
16 we see comparing from the top of the  
17 distribution to the worst. When you estimate  
18 that true signal distribution it's fairly  
19 substantial.

20 I've heard that NQF staff mention in  
21 connection with other measures that I don't

1 think you're being asked to endorse a  
2 particular star rating threshold. And so  
3 although you're seeing very few one and three  
4 stars, I don't know if that's how they were  
5 labeled in NQF measure submission. That  
6 actually is a very, very conservative threshold  
7 that's being used.

8 In the NQF submission materials I  
9 think they were labeled as confidence  
10 intervals. They're actually -- the interval  
11 estimates that come out of the hierarchical  
12 models aren't confidence intervals in the sense  
13 that traditional conventional confidence  
14 intervals are. They're more like  
15 Bayesian-type intervals. And they're much  
16 more conservative.

17 And so we've looked at other methods  
18 of classifying provider performance by using  
19 less rigid, strict certainty criteria. So to  
20 the extent that you have wiggle room on that you  
21 can basically create more outliers.

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1           So, if these were conventional  
2 confidence intervals, you know, basically if  
3 you had a 95 percent confidence interval and you  
4 used another version of this you can have 5  
5 percent outliers just kind of -- even if there  
6 was no variation you'd expect to have just false  
7 positives rated as outliers.

8           So this is really controlling,  
9 minimizing the probability of falsely  
10 classifying as above or below average  
11 performance. But there's certainly by -- on  
12 conference calls and discussions we have  
13 considered other approaches and there's plenty  
14 of opportunity to have many, many more outliers  
15 than are shown in the submission material.

16           DR. JACOBS: I would just briefly add  
17 to that that a take-home message from what Sean  
18 just said is that there still is variation among  
19 providers with the postoperative outcome of  
20 stroke.

21           There's enough of a variation that STS

1 has invested substantial time and energy in  
2 creating a stroke workgroup that is looking at  
3 the high-performing providers to try to figure  
4 out what they're doing better than everybody  
5 else to figure out what can then be done to  
6 minimize stroke even more.

7 Admittedly it's a low-incidence  
8 complication but there's still enough  
9 variation that we've been able to identify  
10 high-performing providers and try to learn from  
11 them. And the effort is being made to cut this  
12 from 1 percent to 0.5 percent to less because  
13 it's so devastating.

14 CO-CHAIR GUNNAR: We'll work on this  
15 side and then we'll come back over here. Ms.  
16 Moyer.

17 MEMBER MOYER: We in general have a  
18 preference when we do our public reporting for  
19 measures that show variations. In this case we  
20 would be preferentially looking for the  
21 composite.

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1           That said, there are instances where  
2           if we -- in the absence of that measure we'll  
3           report something like this that shows no  
4           variation just to let patients know it's  
5           something we've looked at. It's not we don't  
6           know anything, we just can't differentiate.

7           I absolutely think this should be part  
8           of that bigger composite. But I mean, from a  
9           patient perspective if they're looking at the  
10          individual parts of it, oh gosh, do I go to the  
11          person who's got the better stroke rate or the  
12          better deep sternal wound infection rate.

13          I mean, that's not something patients  
14          can really appropriately weigh. I think  
15          they'd be looking more for that overall harm,  
16          that overall morbidity.

17          And I think this is a very important  
18          aspect of that. I just, I struggle with it on  
19          its own as a useful tool for patients or  
20          accountability applications.

21          MEMBER SAIGAL: I just wanted to

1 comment to Sean that I don't think -- I mean,  
2 the interest in finding performance  
3 differences is a take-home that's great to get.  
4 But I don't think it's at the expense of  
5 sacrificing specificity of the measure. So I  
6 think it would be very counterproductive to  
7 find variation where there could be question if  
8 it really exists as a latent variable.

9 DR. JACOBS: I would just say that  
10 this is not a situation where there's no  
11 variation and that we'd be having a lot of  
12 errors. When you use a model to estimate the  
13 amount of true variation it's very clear that  
14 there's substantial variation. And the  
15 difficulty is in the ability to estimate that  
16 rate precisely. So there's going to be some  
17 tradeoff between false positives and false  
18 negatives.

19 But it's not basically where you're  
20 accepting just for the sake of having outliers.  
21 That you catch a lot of true differences that

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1 we're currently missing by using a very strict  
2 criterion.

3 CO-CHAIR GUNNAR: Collette?

4 MEMBER PITZEN: Collette Pitzen.  
5 Just to comment for future. You've done a ton  
6 of statistics in the section where we're  
7 looking for reliability testing on the  
8 performance score. That information wasn't  
9 provided. And I'm sure that you probably have  
10 information about that. So for future  
11 submissions that might be helpful in helping us  
12 determine if there is differentiation between  
13 provider groups.

14 CO-CHAIR GUNNAR: Dr. Asher?

15 MEMBER ASHER: This has been a helpful  
16 conversation for me. I would just ask, going  
17 back to the process.

18 So it seems to me where we've been  
19 going with this is that, first of all, we can  
20 argue about the amount of variation. And I  
21 understand that basically depending on the

1 statistical models there may be more or less  
2 variation that's represented in some of these  
3 things, particularly with the star ratings.

4 It seems like we also -- we need to  
5 re-calibrate our ideas of what substantial  
6 variation are, particularly in these  
7 low-incidence but high potential morbidity  
8 areas. And that might -- I don't know that we  
9 need formal guidance on that, but it may be  
10 almost like an asterisk you'd have next to like  
11 1b suggests that we as a group need to be looking  
12 at these areas slightly differently.

13 I'm just bringing that up because  
14 again the numbers are low but maybe we have to  
15 think about it in a different way.

16 CO-CHAIR GUNNAR: Any other  
17 discussion? So, if I capture a bit of this just  
18 before we vote. We have already voted on an  
19 outcome measure which is mortality which shows  
20 a low rate of distinguishing data between  
21 centers.

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1           And we've had a complete discussion as  
2           to the fact that if this was placed in reserve  
3           status or eliminated it still would be voted as  
4           -- it's already part of a composite measure.  
5           But that's not what we're voting on at this  
6           point.

7           So, knowing what we know with regard  
8           to performance gap I think we vote.

9           MR. SANCHEZ:   Voting will now begin  
10          for 1b performance gap.   One is for high, two  
11          is for moderate, three is for low, four is for  
12          insufficient.   Timer starts now.

13          We have 7 for high, 10 for moderate,  
14          4 for low, 1 for insufficient.

15          CO-CHAIR GUNNAR:   Dr. Asher?

16          MEMBER ASHER:    I'd argue this is a  
17          high-priority area.

18          DR. JACOBS:    I agree.

19          CO-CHAIR   GUNNAR:          Any    further  
20          discussion?   We can vote.

21          MR. SANCHEZ:    Voting will now begin

1 for 1c high priority. One is high, two is  
2 moderate, three is low, four is insufficient.  
3 Timer starts now.

4 We have 19 for high, 3 for moderate,  
5 zero for low, zero for insufficient.

6 MEMBER ASHER: So with respect to  
7 reliability the numerator statement is the  
8 number of isolated CABG procedures in which  
9 postoperative stroke is marked as yes.  
10 Denominator is all patients undergoing  
11 isolated CABG. There are no exclusions. We  
12 all know what the data source is. I have no  
13 particular issues with specifications,  
14 definitions, or coding.

15 With respect to reliability testing,  
16 this wasn't in my mind well separated out in the  
17 measure information. However, I believe what  
18 was meant to represent this particular testing,  
19 and please correct me if I'm wrong, but was this  
20 audit a process involving re-abstraction of  
21 data for 20 cases, comparison of 72 individual

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1 data elements with those submitted to the data  
2 warehouse.

3 And there was substantial agreement  
4 between those data sets which basically  
5 demonstrates that the data contained in the  
6 database is both comprehensive and accurate.  
7 So is that what was supposed to be represented  
8 for the reliability testing?

9 DR. JACOBS: Yes, I think absolutely  
10 that relates to the audit. And when we do the  
11 audit that provides the numeric details of the  
12 data re-abstraction process to confirm that not  
13 only is the data complete but it matches a  
14 re-abstraction so it's accurate.

15 CO-CHAIR GUNNAR: Yes, I would say  
16 we've already voted on reliability and validity  
17 with regard to the STS registry. So let's  
18 carry -- unless there's further discussion  
19 let's carry on.

20 MS. WINKLER: The only thing to think  
21 about is yes, you've talked about the testing

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1 of the database. Remember that reliability  
2 involves the specifications. So if there are  
3 any questions around that.

4 And validity also includes any threats  
5 to validity, handling of exclusions, the risk  
6 model. So, those could vary from measure to  
7 measure. So if there are any things that are  
8 different please bring them up.

9 CO-CHAIR GUNNAR: Collette?

10 MEMBER PITZEN: I'm just curious  
11 about the numerator and the qualification  
12 around an event less than 24 hours. Could you  
13 just talk to a little bit about the reliability  
14 and the checking of that particular data  
15 element? Thank you.

16 DR. JACOBS: Sure. So, there's a  
17 universal definition of stroke. And there's a  
18 paper that's called "The Universal Definition  
19 of Stroke." And that was a harmonized  
20 definition across multiple medical societies.  
21 And STS participated in the creation of that

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1 harmonized definition of stroke. And that was  
2 the definition that is used in the STS database  
3 to track a stroke.

4 And part of that definition is a  
5 temporal cutoff where you have a transient  
6 neurologic event that is associated with  
7 recovery versus a permanent neurologic event.

8 And obviously it's a continuous  
9 variable that we're dichotomizing. We're  
10 dichotomizing that with a cutoff of 24 hours  
11 which is a standard universal definition of  
12 stroke. And that's part of the audit process  
13 that during audit one can confirm if the patient  
14 had transient left arm weakness or transient  
15 blindness and it went away in four hours that's  
16 not going to be a stroke. But if a patient had  
17 two or more consecutive days of those findings  
18 that would be a stroke. And those are all  
19 audited fields.

20 MEMBER PITZEN: And so the validation  
21 around those fields has been acceptable?

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1 DR. JACOBS: Excellent.

2 MEMBER PITZEN: Great. Perfect.  
3 That's all I needed to know.

4 CO-CHAIR GUNNAR: Any other  
5 discussion? Let's vote on reliability.

6 MR. SANCHEZ: Voting will now begin  
7 for 2a reliability. One is for high, two is for  
8 moderate, three is for low, four is for  
9 insufficient. Timer starts now.

10 CO-CHAIR GUNNAR: Please re-vote.

11 MR. SANCHEZ: We have 14 for high, 8  
12 for moderate, zero for low, zero for  
13 insufficient.

14 MEMBER ASHER: So, validity was  
15 looked at in the context of face validity and  
16 I think that we've discussed that in the context  
17 of other STS measures with respect to the  
18 empirical validity testing.

19 They basically look to see if the  
20 information could be used to predict future  
21 performance and they submitted data to suggest

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1       that that was the case.

2               Although, again, we have very, very  
3       few individuals in some of these extreme  
4       categories. And so you just have to keep that  
5       in mind. But it appears to me that based on the  
6       constructs that they've used that it deserves  
7       a high rating with respect to validity.

8               CO-CHAIR     GUNNAR:       Any     other  
9       discussion? Let's vote.

10              MR. SANCHEZ:   Voting will now begin  
11       for 2b validity. One is for high, two is for  
12       moderate, three is for low, four is for  
13       insufficient. Timer starts now.

14              Still waiting on one more vote. Can  
15       you please cast your vote again? We have 17 for  
16       high, 5 for moderate, zero for low, zero for  
17       insufficient.

18              MEMBER    ASHER:       There's   no   new  
19       information here with respect to feasibility.  
20       We've all discussed this in the context of the  
21       other STS measures and I think it deserves a

1 moderate or high rating with respect to  
2 feasibility.

3 CO-CHAIR GUNNAR: Further  
4 discussion? Hearing none, let's vote.

5 MR. SANCHEZ: Voting will now begin  
6 for criteria 3 feasibility. One is for high,  
7 two is for moderate, three is for low, four is  
8 for insufficient. Timer starts now.

9 CO-CHAIR GUNNAR: And vote one more  
10 time. It's failing to pick up one person so one  
11 more time.

12 MR. SANCHEZ: We have 12 for high, 10  
13 for moderate, zero for low, zero for  
14 insufficient.

15 MEMBER ASHER: This measure is in  
16 current use. We've already discussed it from  
17 ways that these various measures are being used  
18 so I won't talk about that.

19 I do question whether or not the fact  
20 that it is part of the CABG composite score  
21 limits its usefulness as an isolated measure.

1 I know we're supposed to evaluate specific  
2 characteristics of this but it is part of the  
3 composite.

4 There is this very limited change in  
5 terms of the number of individuals who fall into  
6 these extreme categories. And so I raise that  
7 question.

8 I also raise a question as to whether  
9 or not there's evidence of risk-adjusted  
10 improvement in performance. In 4b1 there is a  
11 reference to 1b which references the appendix.

12 In looking at the odds ratios  
13 presented over two time periods it wasn't clear  
14 to me that performance improved in the various  
15 provider deciles that were presented. I  
16 discussed this with Amy. We were hoping that  
17 perhaps the STS could address that particular  
18 issue.

19 We've discussed this before about 4b  
20 as a part of this overall evaluation, whether  
21 or not there's evidence that there is

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1 improvement. And again, with most people in  
2 the moderate category wondering what the  
3 relevance of that is.

4 MR. O'BRIEN: I think it may be  
5 difficult to assess improvement over time  
6 because back in the two thousands the time frame  
7 in the STS database for defining stroke was a  
8 72-hour time frame. Currently it's 24. So  
9 there's only within a certain window we can look  
10 for improvement.

11 And I think going back for several of  
12 the outcomes considering mortality and stroke  
13 you saw kind of dramatic improvements over the  
14 nineties and early two thousands, and then more  
15 of the leveling off in recent years. So I'm not  
16 sure just across the last few years whether  
17 there's much difference. I don't recall  
18 seeing data suggesting a dramatic difference  
19 over the past two years.

20 DR. JACOBS: And the definitional  
21 changes I can clarify a bit. Back in the early

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1 part of the STS database there was transient  
2 ischemic attacks which were less than 24 hours,  
3 something called a reversible ischemic  
4 neurologic deficit which was 24 to 72 hours, and  
5 then a stroke was greater than 72 hours.

6 Then at some point in time when the  
7 universal definition of stroke evolved the term  
8 "reversible ischemic neurologic deficit"  
9 either went away or some people would say well,  
10 that's just a subtype of stroke and thus it's  
11 dichotomized into two things, TIA and stroke.

12 MEMBER DUTTON: I'd comment about  
13 that too. As performance on some of these  
14 outcomes tops out I would suggest that you will  
15 continue to demonstrate improvement because  
16 you will achieve the same level of outcome in  
17 progressively sicker and sicker patients as  
18 time goes on.

19 And as a suggestion for STS about how  
20 to analyze it and how to show ongoing  
21 improvement that might be a way to approach it.

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1 CO-CHAIR GUNNAR: Any other  
2 discussion regarding usability and use?  
3 Hearing none let's vote.

4 MR. SANCHEZ: Voting will now begin  
5 for 4 usability and use. One is for high, two  
6 is for moderate, three is for low, four is for  
7 insufficient information. Timer starts now.

8 Still waiting on a few if you could  
9 please resubmit. We have 13 for high, 6 for  
10 moderate, 2 for low, zero for insufficient  
11 information.

12 CO-CHAIR GUNNAR: Any further  
13 discussion? Please vote on whether this  
14 measure meets NQF criteria.

15 MR. SANCHEZ: Voting will now begin  
16 for overall suitability for endorsement. One  
17 is for yes, two is for no. Timer starts now.

18 CO-CHAIR GUNNAR: One more time.

19 MR. SANCHEZ: We have 20 for yes, 2 for  
20 no.

21 CO-CHAIR GUNNAR: So, the committee

1 votes in favor of this maintaining status as an  
2 NQF-endorsed measure.

3 CO-CHAIR FLEISHER: So we're moving  
4 onto 0114 so you can stay there. I assume this  
5 is another part of the composite. Who's the  
6 discussant? Great. Allan, you want to  
7 briefly tell us how other than the change in the  
8 endpoint, how this differs from the previous  
9 measure?

10 DR. JACOBS: Right. So the issues  
11 and dialogue for this measure are going to be  
12 very, very similar to the last measure,  
13 including the rate of occurrence and very  
14 similar to operative mortality.

15 This is a measure of risk-adjusted  
16 postoperative renal failure, the percentage of  
17 patients over the age of 18 undergoing isolated  
18 CABG without preexisting renal failure who  
19 develop postoperative renal failure or require  
20 dialysis.

21 And again, this is another extremely

1 morbid complication after cardiac surgery. It  
2 occurs rarely but it's a life-altering event  
3 for sure.

4 And rather than discuss the evidence  
5 base I think the evidence base speaks for  
6 itself. The development of the model speaks  
7 for itself. And the issues we're going to  
8 discuss are very similar to the ones we just  
9 discussed with stroke. And I'm happy to answer  
10 any questions.

11 MEMBER SIPERSTEIN: So yes, I think we  
12 can minimize a lot of repetition on this model.  
13 Analogous to, for example, the mortality in the  
14 stroke measure. Really talk about the outcome  
15 of a multidisciplinary team throughout the  
16 entire process of care.

17 CO-CHAIR FLEISHER: So are we ready to  
18 vote on evidence? Okay, please do.

19 MR. SANCHEZ: Voting will now begin  
20 for 1a evidence. One is for yes, two is for no.  
21 Timer starts now.

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1                   We have 22 for yes, zero for no.

2                   CO-CHAIR FLEISHER:   Okay.   Can we go  
3                   onto gap?

4                   MEMBER SIPERSTEIN:   So in terms of an  
5                   opportunity for important the data was  
6                   presented that categorized various centers as  
7                   being high, mid or low performers.

8                   And the rate ranged from 0.3 percent  
9                   in the high performers, 2 percent in the mid and  
10                  up to 6.7 percent in the low.   So I'd interpret  
11                  this as there is still a range in the measure  
12                  and a continued opportunity for improvement.

13                  CO-CHAIR    FLEISHER:           Questions?  
14                  Comments?   So it's a larger gap.

15                  DR. JACOBS:   Right.   I think this one  
16                  should be a little easier to vote on than  
17                  mortality in stroke because the gap is larger.

18                  MEMBER YATES:   And we discussed this  
19                  in the workgroup.   The gap being larger is  
20                  reflective of the fact that this is a true  
21                  cardiac team gap analysis in that multiple

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1 health providers are involved in terms of  
2 maintaining pressure or giving the right or  
3 wrong drugs and the like.

4 And that this goes -- this extends from  
5 the operating room environment all the way out  
6 through the ICU and to the floor.

7 CO-CHAIR FLEISHER: Let's vote.  
8 Thank you.

9 MR. SANCHEZ: Voting will now begin  
10 for 1b performance gap. One is high, two is  
11 moderate, three is low, four is insufficient.  
12 Timer starts now.

13 Still waiting on a few of you. Please  
14 resubmit. And one last time, please. We have  
15 12 for high, 10 for moderate, zero for low, zero  
16 for insufficient.

17 CO-CHAIR FLEISHER: Okay. Next.

18 MEMBER SIPERSTEIN: I think the  
19 priority has been well addressed with this  
20 affecting about 2.5 percent of the patients  
21 with the high morbidity and cost. And also a

1 link to survival. And there are multiple  
2 publications that address this.

3 CO-CHAIR FLEISHER: Let's vote,  
4 unless any comments.

5 MR. SANCHEZ: Voting will now begin  
6 for 1c high priority. One is for high, two is  
7 for moderate, three is for low, four is for  
8 insufficient. Timer starts now.

9 Still waiting on a few responses if you  
10 could please resubmit. We have 21 for high, 1  
11 for moderate, zero for low, zero for  
12 insufficient.

13 MEMBER SIPERSTEIN: So in terms of the  
14 reliability the numerator statement is clear  
15 and easy to calculate. The definition of renal  
16 failure is either creatinine that's greater  
17 than or equal to 4 or a threefold increase in  
18 the creatinine. Both of those are easily  
19 numerical data. Or a new dialysis  
20 requirement.

21 The denominator is pretty much

1 all-inclusive with all patients over 18  
2 undergoing isolated CABG.

3 Very minimal exclusions. Even  
4 patients who have had renal transplants  
5 previously are included. And obviously re-op  
6 CABGs are included also. So minimal  
7 exclusions.

8 We've talked about the databases and  
9 the clear definitions.

10 CO-CHAIR FLEISHER: Questions?  
11 Comments? Let's vote.

12 MR. SANCHEZ: Voting will now begin  
13 for 2a reliability. One is high, two is  
14 moderate, three is low, four is insufficient.  
15 Timer starts now.

16 MR. LYZENGA: We're still waiting on  
17 a few if you could resubmit your vote, please.

18 MR. SANCHEZ: We have 17 for high, 4  
19 for moderate, zero for low, zero for  
20 insufficient.

21 CO-CHAIR FLEISHER: Validity.

1           MEMBER SIPERSTEIN:    I think we've  
2       been through all of this previously so ditto to  
3       the last.

4           CO-CHAIR FLEISHER:   Any objections to  
5       voting?  Let's vote.

6           MR. SANCHEZ:   Voting will now begin  
7       for 2b validity.  One is high, two is moderate,  
8       three is low, four is for insufficient.  Timer  
9       starts now.

10           Still waiting on a few if you could  
11       please resubmit.  We have 21 for high, 1 for  
12       moderate, zero for low, zero for insufficient.

13           CO-CHAIR       FLEISHER:           Okay.  
14       Feasibility.

15           MEMBER    SIPERSTEIN:           Has    been  
16       reviewed.

17           CO-CHAIR FLEISHER:   Thank you.  Any  
18       objections?  Let's vote.

19           MR. SANCHEZ:   Voting will now begin  
20       for criteria 3 feasibility.  One is for high,  
21       two is for moderate, three is for low, four is

1 for insufficient. Timer starts now.

2 Still waiting on one more if you could  
3 please resubmit. We have 15 for high, 7 for  
4 moderate, zero for low, zero for insufficient.

5 CO-CHAIR FLEISHER: Usability.

6 MEMBER SIPERSTEIN: I think all these  
7 points closely mirror the former measure also.

8 CO-CHAIR FLEISHER: Any comments?  
9 Let's vote.

10 MR. SANCHEZ: Voting will now begin  
11 for criteria 4 usability and use. One is for  
12 high, two is for moderate, three is for low,  
13 four is for insufficient information. Timer  
14 starts now.

15 Waiting on a few responses if you could  
16 please resubmit. One more time, please. We  
17 have 17 high, 5 moderate, zero low, zero  
18 insufficient information.

19 CO-CHAIR FLEISHER: And let's move  
20 onto voting for endorsement.

21 MR. SANCHEZ: Voting will now begin

1 for overall suitability for endorsement. One  
2 is for yes, two is for no. Timer starts now.

3 CO-CHAIR FLEISHER: And if we can  
4 switch out the developer group because we're  
5 moving to the next.

6 MR. SANCHEZ: Still waiting on two  
7 more if you could please resubmit. Twenty-one  
8 yes, zero no.

9 CO-CHAIR FLEISHER: Okay. So, as  
10 we're about to start the bariatric measures it  
11 would be great for Reva or Helen to just comment  
12 on what's in this space. And if nothing's on  
13 the space my assumption is we do or don't change  
14 the criteria from your perspective. I just  
15 want to have that out there.

16 MS. WINKLER: I would just refer you  
17 back to the surgical portfolio document that I  
18 gave you yesterday and you'll see that the three  
19 measures that are newly submitted for your  
20 consideration are the only measures in that  
21 space.

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1 I mean, clearly as surgeons the other  
2 measures that more generally apply to all types  
3 of surgery would be applicable to this area, but  
4 specifically to bariatric surgery these are the  
5 first ones.

6 And the criteria are the same for all  
7 measures new or for maintenance as we talked  
8 about briefly yesterday. For maintenance  
9 there are a few expectations of additional  
10 information based on use, experience and that  
11 sort of stuff. But for new measures everything  
12 is the same.

13 CO-CHAIR FLEISHER: Yes and if I could  
14 just confirm that Dr. Morton has an open line.

15 DR. MORTON: Yes, this is John Morton  
16 from the American Society of Metabolic and  
17 Bariatric Surgeons. And you guys also have Dr.  
18 Matt Brengman in attendance as well  
19 representing ASMBS. Thank you.

20 CO-CHAIR GUNNAR: So, five minutes  
21 from the developers to provide an overview of

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1 2556 Yearly Surgical Case Volume of Primary  
2 Stapled Bariatric Procedures for Morbid  
3 Obesity.

4 DR. MORTON: Sure. So this is, as  
5 mentioned before these are new measures that  
6 we're presenting on behalf of bariatric  
7 surgery. We don't have any previous measures.

8 This specific measure is looking at a  
9 yearly surgical case volume for primary stapled  
10 bariatric procedures in bariatric surgery.

11 There are three main procedures,  
12 sleeve, the band and the bypass. In looking at  
13 the current evidence when we examine it pretty  
14 closely we see the preponderance of the  
15 morbidity and mortality associated with the  
16 procedures lies with the stapled cases.

17 We're also pretty aware in review of  
18 the literature that volume emerges as a  
19 predictor for both mortality and morbidity.

20 The other thing that we're able to know  
21 is that this is a particular variable that is

1 reliable and easy to access.

2 We have had discussion about surgeon  
3 volume versus hospital volume. However, the  
4 data is more clearly available and more  
5 consistent when it comes to hospital volume.

6 And so the case volume, again as I  
7 mentioned before is important for morbidity and  
8 mortality but there are some data to also  
9 support its use for patient satisfaction and  
10 even some of the resource utilization measures  
11 such as return to work, length of stay and  
12 readmissions.

13 So as what we're offering as our first  
14 measure here total yearly primary stapled  
15 bariatric surgery cases in 18 year or older  
16 patients. And we've listed the codes for the  
17 specific procedures. These are both listed as  
18 ICD-9 and CPT codes. It should be pretty  
19 readily available whether it be through a data  
20 registry or even through an OR log.

21 I think that's most of what we wanted

1 to identify. I think we've mentioned already  
2 that the volume we do is an important measure  
3 for prediction of complication. And we've  
4 outlined why hospital is more straightforward  
5 as a captured variable.

6 The number that we've looked at at case  
7 volume after a pretty extensive literature  
8 review is for stapled cases 50 annual cases a  
9 year.

10 So I think I'll probably pause here  
11 because I think the measure is fairly  
12 straightforward. And I'm happy to answer any  
13 questions.

14 CO-CHAIR GUNNAR: So, let the record  
15 show that Dr. Ko will recuse himself from this  
16 measure voting.

17 MR. BRENGMAN: So I'll just make one  
18 comment and that is that in our review of the  
19 NQF measures there are four current measures of  
20 surgical volume as it relates to different  
21 procedures, not bariatrics.

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1 CO-CHAIR GUNNAR: Kelsey?

2 MEMBER MCCARTY: So, as stated this  
3 measure looks at yearly case volume of primary  
4 stapled bariatric surgical procedures  
5 performed on patients 18 years and older.

6 It is neither an outcome nor a process  
7 measure, but rather a structural measure. The  
8 developers are making the case that procedure  
9 volume is an easily quantifiable variable that  
10 appears to correlate to overall outcomes of  
11 morbidity and mortality, and that this variable  
12 acts as a surrogate for experience, expertise  
13 and institutional commitment.

14 They also provide the rationale that  
15 case volume reflects patient choice which is in  
16 turn reflective of patient satisfaction and  
17 economic factors such as time to return to work,  
18 hospital length of stay and ease of follow-up.

19 And finally, they also describe this  
20 measure as a surrogate for physician to  
21 physician referral patterns.

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1           My concern with this measure is that  
2           it's not paired with an outcome measure or  
3           anything actionable. So it's not clear to me  
4           what you would do with the results.

5           So they have selected a threshold of  
6           50 cases per year based on expertise of the  
7           society. So if you're less than 50 cases a  
8           year, and I guess I would ask this to the  
9           developer, what happens.

10          So, do you encourage people to get the  
11          case volume up? Do you encourage patients not  
12          to go there, physicians not to make referrals?  
13          Is it just patient information to decide to do  
14          with that what they will? I'm not sure what to  
15          make of that.

16          DR. MORTON: Well, there's a few  
17          things to consider there.

18          First, the recommendation is based on  
19          the presented literature, the evidence that's  
20          available. So this is above and beyond any  
21          sort of expert opinion.

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1           There's considerable literature to  
2           support the threshold number.

3           In terms of what to do with the actual  
4           volume criteria I think that it's pretty well  
5           linked to both mortality and morbidity. And we  
6           can certainly amend that because I think that's  
7           a valid point. Any sort of measure that we want  
8           to look at we want to make actionable. And so  
9           we could easily marry it to morbidity and  
10          mortality.

11           CO-CHAIR   GUNNAR:           Any other  
12          discussion? Dr. Sawin?

13           MEMBER   SAWIN:    I wonder if the  
14          developers could comment on why children under  
15          the age of 18 were excluded.

16           DR. MORTON:  I appreciate that point.  
17          And we did look at it. Unfortunately we simply  
18          don't have data for the young adults undergoing  
19          bariatric surgery. It's probably less than 1  
20          percent of the overall case volume. There's  
21          about 180,000 cases being done annually. And

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1 in the data that we have currently we're seeing  
2 extremely small sample sizes on an  
3 institutional level.

4 And there's a lot of variation,  
5 anywhere from, you know, 2 cases to up to about  
6 50 or 60 seems to be the largest. So we just  
7 don't have enough signal to figure out what a  
8 volume threshold might be for the pediatric  
9 patients.

10 And we felt that the overwhelming  
11 majority of the cases being done are adult  
12 cases, not pediatric. And we felt most  
13 comfortable in recommending the adult  
14 population.

15 CO-CHAIR GUNNAR: Dr. Asher.

16 MEMBER ASHER: So, low volumes of  
17 procedures can be a safety issue. High volumes  
18 can sometimes lead to better outcomes but can  
19 also imply over-utilization. That's  
20 certainly the case for a lot of surgical  
21 procedures. So, is there anything in the

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1 existing evidence to suggest that in some  
2 high-volume centers that perhaps it's an  
3 over-utilized procedure?

4 DR. MORTON: That's a great question.  
5 So, it really gets to the core of  
6 appropriateness for these patients.

7 In that regard bariatric surgery I  
8 think has been pretty straightforward about  
9 indications for procedure. And these  
10 indications for procedure have been set by the  
11 1991 NIH consensus conference criteria.

12 And that has been a general rule for  
13 almost all -- for all the insurance companies,  
14 all the different payers. So there's little  
15 opportunity for over-utilization as long as the  
16 indications are met. So I think given the fact  
17 that we've got very clear criteria about  
18 appropriateness of indication there's less  
19 likelihood for over-utilization.

20 One point about utilization. There's  
21 about 18 million patients who qualify for

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1 weight loss surgery and there's currently about  
2 180,000 cases being done. So it's about 1  
3 percent of the eligible population. So  
4 there's at this point little indication of  
5 over-utilization for the procedure in the  
6 population.

7 CO-CHAIR GUNNAR: Dr. Burstin.

8 DR. BURSTIN: Just one comment. I  
9 just wanted to follow up on Kelsey's point. I  
10 did check. We do in fact have four endorsed  
11 volume measures on AAA, esophageal resection,  
12 pancreatic resection and pediatric heart  
13 surgery.

14 Those are all attached to mortality  
15 measures. Those are considered high-risk,  
16 low-volume procedures. So I just wanted to put  
17 that out there.

18 So the question is going to be is there  
19 a quality signal here for the volume standing  
20 alone.

21 DR. MORTON: There is. There's

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1 fairly clear indication about the effect of  
2 volume on mortality. You know, there's quite  
3 a few cases. Probably the best cases have been  
4 done with the nationwide inpatient sample and  
5 with that threshold of 50. I mean, I can try  
6 to get you the exact number here, what the  
7 differences are in mortality. I apologize,  
8 give me one moment.

9 It's an odds ratio of 2. So you can  
10 imply there that there's a twofold increase in  
11 mortality for these patients when they're going  
12 to a lower-volume center. So it does appear  
13 that there is adequate signal to determine that  
14 volume does have an effect.

15 CO-CHAIR GUNNAR: We'll go to this  
16 side of the room and then to that. So, Dr.  
17 Grover.

18 MEMBER GROVER: Yes, thanks to your  
19 group for putting forward these proposals.

20 I have a question on -- in cardiac  
21 surgery we've looked at this for many, many

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1 years. And although there's a statistical  
2 relationship to volume if you do a scattergram  
3 and look there are in the lower-volume centers  
4 some high-performing centers, exceptions to  
5 that overall trend that you see. And in the  
6 high-volume centers there are some that don't  
7 do so well.

8 So how can you -- does the literature  
9 discriminate in that way to allow some type of  
10 accommodation for the centers that do well that  
11 are low-volume and the ones that don't do so  
12 well that are high-volume that are more the  
13 exceptions to the rule?

14 DR. MORTON: When we look at -- we've  
15 actually done some scatter plots. And I think  
16 what it reflects is where we are in the  
17 evolution of bariatric surgery vis-a-vis CT  
18 surgery, a much more established field of  
19 surgery.

20 We're still seeing a pretty consistent  
21 trend. And actually, the threshold we saw

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1       around 50 continues to extend frankly once  
2       you're getting into some hospitals that do  
3       greater than 400.

4               We've looked at whether or not there  
5       are high-performing low-volume centers and it  
6       appears to be a really rare event in just  
7       looking at the scatter plot. So we don't see  
8       the same sort of relationship we've been able  
9       to see in thoracic.

10              And I think part of the reason for that  
11       is simply it's still early on in the quality  
12       improvement process for the field. And I think  
13       some of the lessons learned by the high-volume  
14       hospitals will at some point and should diffuse  
15       to the low-volume centers and you'll see more  
16       homogenization of outcome.

17              But we have not seen that to date. To  
18       date there's still a pretty strong indication  
19       that volume makes a big difference.

20              CO-CHAIR GUNNAR: Dr. Markman?

21              MEMBER MARKMAN: In reading your

1 paper and your evidence for this the centers of  
2 excellence are defined as greater than 125  
3 cases per year. I'm just curious why you  
4 picked 50.

5 And then further in your paper there's  
6 a statement that when you go to a center of  
7 excellence that there was lower mortality but  
8 higher morbidity.

9 So, if you can address those two  
10 questions. And this was in the paper that you  
11 just sent out to us.

12 DR. MORTON: Okay. So the paper we  
13 just sent to you guys is in reference to  
14 accreditation. So in reference to to the  
15 volume question we have now the reason that the  
16 125 came up is that was a historic number at this  
17 point. That was the previous volume standard  
18 when the accreditation programs started back in  
19 2006-2007.

20 And since then there's been an  
21 evolution in the types of procedures we do.

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1       There's much less banding being performed now  
2       and more bypasses and sleeves. And as a result  
3       the stapled procedures are the ones that garner  
4       more attention.

5               In regards to the specific paper about  
6       the accreditation this is a paper that's being  
7       published in the Annals of Surgery.

8               And in it the big differences were  
9       around mortality as well as failure to rescue.  
10       If you look at the individual complications we  
11       looked at roughly about 20. And there were --  
12       the vast majority had improved outcomes at  
13       accredited centers. There were a handful that  
14       did not have improvement. But the majority did  
15       show improvement for those specific  
16       complications.

17               MEMBER MARKMAN: So what is the  
18       percentage of complications. And I guess  
19       leakage is probably the greatest one. But what  
20       is the percentage of this complication?

21               DR. MORTON: So, I have here just

1 looking at the overall. And this is around  
2 accreditation on volume. So, those were two  
3 different effects if you will. And volume  
4 exerts a pretty big effect but so does  
5 accreditation. In fact, we've seen that  
6 accreditation exerts an effect above and beyond  
7 volume. But volume is a place to start.

8 And when we look at the actual  
9 complication rates in that particular paper the  
10 accredited hospitals had roughly about an 11.3  
11 percent complication rate of any sort in the  
12 inpatient stay. And the unaccredited  
13 hospitals were at 12.3 percent.

14 MEMBER MARKMAN: So, the question now  
15 comes down is that we have several measures that  
16 we're reviewing. And we will review each one.  
17 But don't you have a measure also on  
18 accreditation?

19 DR. MORTON: We indeed do. And the  
20 three measures that we have are around  
21 accreditation, around surgical volume and

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1       about 30-day readmissions.

2               If we view this in any sense of  
3       priority, if we really view accreditation as  
4       being the most important measure because from  
5       those a lot of things emanate. It's a platform  
6       for benchmarking. It gives the centers the  
7       opportunity for quality improvement.

8               It should be mentioned that volume is  
9       a subset for accreditation and in many ways  
10       accreditation is a composite measure of many  
11       different things that are going on all at once.  
12       It can render significant advantage for the  
13       patient entering an accredited center.  
14       Everything from the data registry that allows  
15       for benchmarking to having resources in place,  
16       the quality improvement requirement and the  
17       standards that we've already mentioned.

18              MEMBER MARKMAN:   So, basically the  
19       evidence on this particular measure of 50  
20       cases, most of your evidence is on 125 cases.

21              DR. MORTON:   I wouldn't say most of



1       it. I would say the historic data is around the  
2       125, but the most contemporary data that we have  
3       indicates that 50 for stapled cases is the best  
4       measure.

5               That 125 number came out back in  
6       2004-2005. And at that point it was a very  
7       different landscape for bariatric surgery.  
8       Banding was a much, much more common procedure.  
9       And that has now changed where we're seeing more  
10      and more stapled procedures.

11             And it doesn't take as many stapled  
12      procedures to indicate changes in morbidity and  
13      mortality because the rates are higher. And  
14      with the most contemporary data that we have  
15      from the University of California Irvine the 50  
16      stapled cases make a difference.

17             Not to get too technical, but when we  
18      went back to look at the 125 threshold we found  
19      that about half of the procedures being  
20      performed were banding. And if we excluded the  
21      banded procedures it really had no impact on the

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1 overall morbidity and mortality because the  
2 band procedure was so safe.

3 But we saw a lot of the morbidity and  
4 mortality was associated with the stapled  
5 cases. And that's what led to the review of the  
6 data to make it most contemporary. And that's  
7 where we came up with the 50 stapled cases.

8 CO-CHAIR GUNNAR: Collette?

9 MEMBER PITZEN: I just have a process  
10 question I guess in terms of -- and maybe  
11 everyone is already there and I'm not. But  
12 what kind of evidence are we looking for for a  
13 structural standalone volume measure in order  
14 for it to go forward in the process?

15 DR. BURSTIN: Yes, this was part of  
16 when we did the Evidence Task Force Report a  
17 couple of years ago it very clearly said that  
18 the requirements for structural measures are  
19 identical to process measures.

20 So it's still -- that's why I asked the  
21 question earlier. It still is the quality and

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1 the quantity, the consistency of the evidence  
2 that the structural element has an impact on  
3 outcomes.

4 CO-CHAIR GUNNAR: So, just before we  
5 vote I have a comment. A question. I know  
6 that NIH has seven studies out there currently  
7 active which may change the guidance and  
8 recommendations going forward.

9 If the criteria for bariatric surgery  
10 is modified, it becomes more metabolic-based as  
11 opposed to weight-based going forward, and the  
12 volume as a result of that goes down how does  
13 a strictly freestanding volume-related  
14 measurement stand up?

15 DR. MORTON: Well, we do view the  
16 procedures as being important in consideration  
17 that they're above and beyond weight as you  
18 mentioned. It's a very powerful metabolic  
19 operation with high remission rates for  
20 diabetes.

21 We don't anticipate even if there were

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1 changes in any sort of indications that there  
2 would be large changes in the number of  
3 procedures being done. Because this has been  
4 a longstanding indication that probably will  
5 not change with any sort of recommendations.

6 It should be mentioned that NIH did  
7 look at this in terms of guidelines and perhaps  
8 revisions of them. They deferred it. They  
9 decided guidelines are not NIH business and  
10 they deferred the guidelines to both the  
11 American Heart Association and the American  
12 Academy for Clinical Endocrinologists as well  
13 as the Obesity Society.

14 And when they came out with their  
15 revised guidelines they were essentially  
16 consistent with what we've done in the past but  
17 with even a broadening of indication for some  
18 of the diabetics.

19 So I don't anticipate that any sort of  
20 recommendations coming forward will decrease  
21 volume. Frankly, I think that it will most

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1       likely increase volume as there's better  
2       awareness of the procedure and its efficacy and  
3       safety.

4               CO-CHAIR   GUNNAR:       Any further  
5       discussion? I think we're ready to vote on the  
6       evidence for this particular measure.

7               MR. SANCHEZ:   Voting will now begin  
8       for 1a evidence. One is for high, two is for  
9       moderate, three is for low, four is for  
10      insufficient evidence. Timer starts now.

11              We have zero for high, 11 for moderate,  
12      9 for low, 2 for insufficient evidence.

13              MS. WINKLER:   This is a gray zone  
14      result. In other words, there's no consensus  
15      of the committee at this point in time. So  
16      we'll continue evaluating the measure but  
17      realizing that there isn't a decision out of the  
18      committee on this criteria so far.

19              MEMBER   MCCARTY:       Okay, so for  
20      performance gap the developers say that the  
21      American Society of Metabolic and Bariatric

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1       Surgery in conjunction with the American  
2       College of Surgeons have created a joint  
3       quality improvement program again using this  
4       volume threshold of 50 stapled bariatric cases  
5       per year as the requirement.

6               So this is a little bit different from  
7       what you just cited in the paper because in the  
8       -- what was put before us in the measure  
9       description says that 50 cases per year is  
10      actually the highest requirement for level of  
11      certification.    So, clarification on that  
12      would be helpful.

13             And there was also no data supplied in  
14      terms of how many hospitals today that perform  
15      bariatric surgery meet this 50 threshold.    So  
16      it's difficult to evaluate what the opportunity  
17      to improve is without that baseline data.

18             CO-CHAIR GUNNAR:    Any additional  
19      comments?   I think we're ready to vote.

20             DR. BURSTIN:   Do they want to respond?  
21      You asked a question.

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1 CO-CHAIR GUNNAR: Sorry. I went to  
2 the vote inappropriately. So, the developers,  
3 please.

4 DR. MORTON: Well, yes, there is a  
5 performance gap. And in some -- they're within  
6 the literature cited. There is at least 25  
7 percent of centers that do bariatric surgery  
8 are below that threshold of the 50 stapled cases  
9 annually. So that's a pretty substantial  
10 performance gap.

11 And we have been able to substantiate  
12 that by looking at nationwide and patient  
13 samples and incorporates both -- that  
14 incorporates over 1,000 sampled hospitals that  
15 may or may not be accredited. So we do see a  
16 pretty significant performance gap there.

17 And I do want to emphasize that there  
18 is a very, very clear relationship between  
19 volume and mortality which is a significant  
20 outcome.

21 CO-CHAIR GUNNAR: Dr. Fleisher?

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1 CO-CHAIR FLEISHER: So, I'm actually  
2 confused in how to rate this. Because you  
3 actually -- you keep saying 50 but your measure  
4 is number. So be very specific. This is not  
5 do you make 50 which is a cutoff. You say how  
6 many have you done. So how you rate a  
7 performance gap if you are 51?

8 So I'd actually turn to staff for some  
9 recommendation. Because I don't understand  
10 how to analyze this.

11 DR. BURSTIN: Well and again, just to  
12 read what's up there, it's that there's  
13 variation or gap. So I guess the question  
14 would be is there sufficient variation across  
15 institutions and volume would be the way I would  
16 read that.

17 CO-CHAIR FLEISHER: But that, okay,  
18 volume that it's important enough to --

19 DR. BURSTIN: You've already made the  
20 assessment on your first vote sort of. I take  
21 that back, you didn't make the assessment on

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1 your first vote of whether evidence is  
2 important or not.

3 But assuming for now, assuming that's  
4 the case you're now at the point where you're  
5 discussing whether there's sufficient  
6 variation or a gap in performance. So I would  
7 base this pretty much on variation I would  
8 think.

9 MEMBER SIPERSTEIN: So are we trying  
10 to say then -- so we're basically just saying  
11 someone has to tell you how many cases you do.

12 But implicit in all this is this number  
13 50 keeps on coming up in the measure that we're  
14 saying 50, 50, 50. But that's not really what  
15 the measure is saying. It's just saying  
16 numbers.

17 So, as far -- if we exclude the whole  
18 idea of 50 then there isn't a performance gap  
19 because we don't know what that means. We just  
20 know that hospitals are doing different  
21 numbers.

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1           And we could define a quality measure  
2           for every procedure then and it wouldn't have  
3           any real value.

4           DR. BURSTIN: Right. And I guess the  
5           issue here is really this question from the  
6           first criterion of whether you believe that  
7           there's evidence that volume affects the  
8           outcome in this case.

9           In this particular one you're really  
10          just saying is there variation. It's not based  
11          on 50. The 50 is more their evidence was really  
12          my assumption. It's not the construction of  
13          the measure. The measure itself is volume as  
14          are other volume indicators.

15          CO-CHAIR FLEISHER: So Helen, just  
16          we're at near the end because I'm thinking  
17          usability versus performance gap.

18          DR. BURSTIN: Yes.

19          CO-CHAIR FLEISHER: And that's where  
20          I think there's some confusion. Because how  
21          it's used.

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1 DR. BURSTIN: So, as an example, I  
2 pulled up from -- and again, this is more on  
3 evidence, but from the Evidence Task Force  
4 Report. The measure they used as the example  
5 was nurse staffing hours which in some ways  
6 doesn't have a threshold either. It is more of  
7 a continuous variable. But in that instance  
8 the evidence was that higher nursing hours  
9 resulted in lower morbidity and mortality.

10 So I think, I mean I'm just following  
11 the same argument. I think the argument here  
12 is they're saying that volume as a structural  
13 measure has an impact, has a relationship to  
14 outcome. And so I think what you're looking at  
15 here is really whether you believe there is  
16 sufficient variation across hospitals to push  
17 it forward on performance gap.

18 I'm not indicating whether I think  
19 that's a good or bad idea. Just again, more so  
20 from our precedence of looking at other  
21 structural measures.

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1           MR. BRENGMAN: I will just make a  
2 comment on that and that is that's exactly what  
3 made it very difficult actually to sort of write  
4 this measure. There are only very few volume  
5 measures and it is the number.

6           The evidence piece is pretty  
7 definitive that there's a continuum of higher  
8 quality over a number. We presented 50 as part  
9 of the accreditation process but not as the  
10 basis of this particular measure.

11           And so there is a high degree of  
12 variability of centers doing as low as 15 cases  
13 and as high as greater than 400. And that's  
14 presented within the literature base as well.

15           DR. MORTON: I just wanted to follow  
16 up on Matt's point. There's actually a lot of  
17 data around the volume effect and how 50 stapled  
18 cases makes a difference.

19           There's a study from Procolis survey  
20 2003, Wellwer and Kax 2007, Kells, Obesity  
21 Surgery 2009, Flung 2004, Jack, Sword, Smith in

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1       2010. I mean I can go on. You guys have that  
2       list there. There's considerable evidence  
3       demonstrating a very strong relationship  
4       between volume and outcome.

5               And even though some of the data were  
6       historic where we saw different numbers, the  
7       most contemporary data are quite clear about 50  
8       stapled cases having significant impact on  
9       patient mortality.

10              And the mortality difference between  
11       that threshold of 50 greater than, less than is  
12       quite high. It's stated here as being greater  
13       than twofold.

14              CO-CHAIR GUNNAR: Okay, we're going  
15       to go on this side and then there. So, Kelsey,  
16       did you have a comment?

17              MEMBER MCCARTY: Well, just that I  
18       feel like where I'm really struggling where to  
19       evaluate this measure, and this is the problem  
20       with all of these types of measures I suppose,  
21       is that yes, there's research that shows

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1       there's a strong correlation, but it is on this  
2       continuum basis. So the science is there to  
3       support it.

4               But when you adopt measures like this  
5       you're trying to fit it in this administrative  
6       framework that doesn't always work. Sometimes  
7       we don't -- it might need more administrative  
8       definition to figure out what to do with this.

9               So, is there good research to support  
10       a correlation? Yes. Is there good research  
11       to support a constructive way to make this an  
12       administratively run metric? I don't think  
13       so.

14              DR. MORTON: Well, it's a fairly  
15       straightforward measure. It's 50 stapled  
16       cases. So I think getting that --

17              CO-CHAIR GUNNAR: No, no, no, just to  
18       get focus back in on performance gap I think  
19       let's stay there for the moment. And so, Dr.  
20       Saigal.

21              MEMBER SAIGAL: So it sounds like it's

1 conceptually not possible to have a performance  
2 gap the way it's written, right? Because it  
3 basically is reporting the number that's  
4 happening. So everyone meets it and there's no  
5 gap.

6 CO-CHAIR GUNNAR: Except there's  
7 variation.

8 MEMBER SAIGAL: Depends on how we  
9 interpret that variation.

10 CO-CHAIR GUNNAR: Dr. Temple?

11 MEMBER TEMPLE: I hope this fits in  
12 the performance gap section. But what I'm  
13 hearing is it's not just the volume but it's  
14 also the case mix. So I'm hearing that -- so  
15 if somebody has been, based on how this is  
16 written if you're doing 50 bands instead of 50  
17 stapled and you should be doing the 50 stapled,  
18 that's variability that you would want to  
19 capture in a measure. It's not captured in  
20 this performance gap the way the measure is  
21 written. So I don't see the volume piece in

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1       this.

2               And then I see that the whole issue  
3       about case mix and choice, you know, the  
4       appropriateness of a band versus a staple is not  
5       addressed in this. And that to me may be where  
6       you see the variability and could find a  
7       performance gap measure to measure.

8               CO-CHAIR GUNNAR: I think we take the  
9       submission the way it's written. We must and  
10      let's vote unless there's further discussion.  
11      So I think we're ready.

12              MR. SANCHEZ: Voting will now begin  
13      for 1b performance gap. One is for high, two  
14      is for moderate, three is for low, four is for  
15      insufficient. Timer starts now.

16              We've got 2 for high, 3 for moderate,  
17      7 for low, 10 for insufficient.

18              CO-CHAIR GUNNAR: So I believe that  
19      stops this analysis. So, for 2556 the  
20      recommendation of the committee is that it not  
21      be endorsed as an NQF measure.

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1                   So we will go onto 2557.

2                   (Whereupon, the foregoing matter went  
3 off the record at 12:14 p.m. and went back on  
4 the record at 12:25 p.m.)

5                   CO-CHAIR FLEISHER: Can you open the  
6 phones for public comment?

7                   OPERATOR: At this time if you would  
8 like to make a comment please press \* and then  
9 the number 1. At this time there are no public  
10 comments.

11                  CO-CHAIR FLEISHER: Okay, anybody in  
12 the room, short public comment? Okay. Thank  
13 you, Lisa.

14                  CO-CHAIR FLEISHER: Okay, let's  
15 restart. We won't let you eat. We'll let you  
16 talk first.

17                  We are on the readmission 2557. And  
18 just checking, anyone leaving before 3:30  
19 today? One. Two. What time? 1:30. About  
20 3. Do you have any measures that you have  
21 reviewed? Any measures? Which is which one?

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1       Okay. So we'll make it by 3. Great. Yes.

2               Okay, readmission. Want to give us a  
3 two-minute to three-minute overview.

4               DR. MORTON: Sure.

5               CO-CHAIR FLEISHER: Yes, we hear you.

6               DR. MORTON: Hi. This is John Morton  
7 again. This is the NQF measure 2557 and it's  
8 Hospital-level 30-day All-cause Readmission  
9 Rates after Elective Primary Bariatric Surgery  
10 Procedures.

11               The American Society for Metabolic and  
12 Bariatric Surgery is the measure steward. And  
13 we're examining hospital-level 30-day  
14 all-cause readmission rates following elective  
15 primary bariatric surgery. And the ages 18 to  
16 65.

17               We've included the specific bariatric  
18 procedures that are listed there. We're  
19 looking at the outcome as being defined as a  
20 readmission for any cause within 30 days of the  
21 discharge date of the index procedure.

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1           We wanted to make sure we have a good  
2           population of homogeneity by excluding some of  
3           the other procedures, mainly open or revisional  
4           procedures or extremes of age where we don't  
5           have good data about the level of readmissions  
6           for those patients.

7           Our rationale for this is that we view  
8           the NQF's previous statements on all-cause  
9           30-day readmission measures as being  
10          important. And we view this particular  
11          measure as being a standard for quality  
12          monitoring and looking at the accountability of  
13          care for patients.

14          There have been great strides made in  
15          bariatric surgery around decreasing mortality  
16          and even individual complication rates are  
17          relatively low. DVT, leaks are less than 1  
18          percent.

19          There is still quite a bit of variation  
20          around readmission. National average for  
21          bariatric surgery is still about anywhere from

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1 6 to 8 percent. And again, we view it as an  
2 important measure because it is a composite of  
3 different components of care, complications,  
4 patient and physician satisfaction and  
5 resource utilization.

6 And in sum we feel this all-cause  
7 readmission measure would provide an ample  
8 opportunity to improve hospital performance.

9 CO-CHAIR FLEISHER: Thank you. And  
10 who's reviewing? Collette.

11 MEMBER PITZEN: Thanks. As stated  
12 this is measure 2557 Hospital-level 30-day  
13 All-cause Readmission after Elective Bariatric  
14 Procedures which include gastroscopic rho and  
15 y gastric bypass, sleeve gastrectomy,  
16 biliopancreatic diversion and lab-adjustable  
17 gastric banding.

18 It's a new measure. The numerator is  
19 readmission to an acute care hospital with a  
20 stay that is at least 24 hours for any reason  
21 within 30 days of the index hospital discharge

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1 date.

2 The intended level of analysis for  
3 this measure is a hospital-reported measure.  
4 However, no performance results were provided,  
5 no analysis and no data provided in this  
6 application for that consideration.

7 Before I go into each of the selection  
8 criteria I want to share that I do think this  
9 measure has potential but I do have some  
10 concerns. So I'd just like to briefly talk  
11 about that and then we can go into the criteria.

12 On the plus side obesity is at epidemic  
13 level in our nation. This is an important  
14 related procedure for the population at  
15 significant risk for morbidity.

16 Many surgical procedures have a fairly  
17 low readmission rate. For example, total  
18 knee, less than 1 to 2 percent which may or may  
19 not make them able to be used for measures for  
20 accountability and public reporting.

21 Granted, though this is not as high as

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1 readmission rates for chronic conditions in the  
2 18 to 22 percent ranges in the literature  
3 provided by the developer demonstrate a range  
4 between 1.7 and 9.4 percent based on procedure  
5 type which may demonstrate opportunity for  
6 improvement.

7 I applaud the developer's decision to  
8 include any reason for readmission which is  
9 appropriate for this population.

10 Concerns. Again, no performance data  
11 provided so we're unable to understand the true  
12 opportunity.

13 Concerns about the measure  
14 specifications overall. The intent of the  
15 exclusion, for one example, the intent of the  
16 exclusions are to exclude procedures performed  
17 related to gastric cancer which is an  
18 appropriate exclusion. However, listed  
19 diagnosis codes are malignant neoplasm of the  
20 esophagus and do not include malignant neoplasm  
21 of the stomach.

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1           There's no reliability or validity  
2           testing on the data for this measure. There's  
3           no current risk adjustment plan or model for  
4           this outcome-based measure. The developer  
5           shares a struggle with the lack of  
6           administrative data that could be used in a risk  
7           adjustment model. But they have plans for  
8           future development around that.

9           And my last concern is the ability of  
10          a registry-based data system to reliably  
11          capture readmission data. Medicare data  
12          demonstrates that as many as 22 percent of  
13          readmissions occur to a facility other than the  
14          index hospital.

15          During our workgroup call the  
16          developers shared that part of the registry  
17          database process includes a follow-up with the  
18          patient at 30 days. In the registry  
19          participants the follow-up success rate is  
20          around 90 percent. But this mechanism would  
21          need to be tested and included for

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1 understanding the measure performance and  
2 impact of missing data. Claims data-based may  
3 be a more reliable and complete data source.

4 CO-CHAIR FLEISHER: So, can we focus  
5 on -- because you've identified a lot of the  
6 future issues.

7 MEMBER PITZEN: I'm going to start  
8 walking through the criteria for evidence.

9 This is an outcome measure. The  
10 developer at one point in time stated it was an  
11 outcome measure. However, in the actual  
12 application on criteria 1a1 they talk about  
13 this as being an intermediate outcome measure.

14 I would disagree a little bit. It's  
15 an outcome. So, they provided a lot of  
16 information, a lot of literature that might not  
17 have been necessary. However, they did not  
18 provide that direct link of the processes to the  
19 outcome.

20 However, we can glean that from the  
21 literature that was provided. Examples of

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1 related processes include fluid and  
2 electrolyte balance, surgical technique,  
3 prevention of infection, deep vein thrombosis  
4 and coordination of care. So I think this  
5 would suggest that the link is present, it's  
6 just not part of the application.

7 CO-CHAIR FLEISHER: So purely for  
8 evidence, any comment on whether outcome, and  
9 I agree with you, this is an outcome measure,  
10 that there's -- the rationale supports the  
11 relation of the outcome to at least one process  
12 as Collette has nicely outlined. Comments?  
13 Let's vote.

14 DR. MORTON: We do agree it is an  
15 outcome measure.

16 CO-CHAIR FLEISHER: Okay, thank you.  
17 Thank you.

18 MR. SANCHEZ: Voting will now begin  
19 for 1a evidence. One is for yes, two is for no.  
20 Voting timer starts now.

21 We're needing one more. Can everyone

1 resubmit please? We've got 20 for yes, 2 for  
2 no.

3 CO-CHAIR FLEISHER: Okay, gap.

4 MEMBER PITZEN: No performance data  
5 was provided. Unable to understand the true  
6 opportunity. However, literature provided  
7 demonstrated some potential opportunity for  
8 improvement with literature citing readmission  
9 rates of laparoscopic bypass 6.5 percent, open  
10 gastric 9.4, sleeve gastrectomy 5.4, and  
11 adjustable gastric banding at 1.7. No data was  
12 presented or discussed about disparities.

13 MS. WINKLER: I would just mention  
14 that for new measures that it is not -- because  
15 there frequently may not have been a great deal  
16 of use to generate data it is acceptable to  
17 reference literature data for this criteria for  
18 a new measure.

19 CO-CHAIR FLEISHER: So if I could ask  
20 you stated the rates. Do we know how much  
21 variability between hospitals?

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1           MEMBER PITZEN:   We don't.   It was  
2   literature cited that those are what the rates  
3   are in the application.   I don't have any  
4   information about variability.

5           CO-CHAIR   FLEISHER:       This   is   a  
6   facility-level.

7           MEMBER PITZEN:   It's a facility-level  
8   measure.

9           CO-CHAIR   FLEISHER:       Does   the  
10   developer have any literature?

11          DR. MORTON:   We do have data about  
12   that and it is listed in the evidence area.   But  
13   there is a tremendous amount of variation,  
14   anywhere from 1 percent up to about 20 percent  
15   depending on center.

16          CO-CHAIR   FLEISHER:       Further  
17   comments?   You have a comment?

18          MEMBER MARKMAN:   How are we going to  
19   collect the data?   I mean is this claims-based,  
20   or is this going to be --

21          CO-CHAIR   FLEISHER:       That's

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1 specification.

2 MEMBER MARKMAN: Oh, okay.

3 CO-CHAIR FLEISHER: So let's stay on  
4 gap.

5 MR. SANCHEZ: Voting will now begin  
6 for 1b performance gap. One is high, two is  
7 moderate, three is low, four is insufficient.  
8 Timer starts now.

9 We have 7 high, 13 moderate, 1 low,  
10 zero insufficient.

11 CO-CHAIR FLEISHER: Okay, next.

12 MEMBER PITZEN: Next is priority.  
13 Although not explicitly stated but filtered  
14 throughout the literature provided the measure  
15 does relate and reflect to a high priority of  
16 aspect of care related to obesity.

17 CO-CHAIR FLEISHER: Okay. Comments?  
18 Let's vote.

19 MR. SANCHEZ: Voting will now begin  
20 for 1c high priority. One is high, two is  
21 moderate, three is low, four is insufficient.

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1 Timer starts now.

2 Still waiting on a few if you could  
3 please resubmit. We have 13 high, 9 moderate,  
4 zero low, zero insufficient.

5 CO-CHAIR FLEISHER: Next.  
6 Reliability.

7 MEMBER PITZEN: Reliability. The  
8 numerator again is readmission to an acute care  
9 hospital with a stay that is at least 24 hours  
10 for any reason within 30 days of hospital  
11 discharge.

12 The actual numerator details are not  
13 well specified in the application and simply  
14 repeat the procedures in the denominator.

15 I guess I just wanted one overarching  
16 comment. Even as an experienced measure  
17 person I could not take these specs as written  
18 today and implement them with any certainty or  
19 reliability. So I think that there's some work  
20 that needs to be done around that area.

21 The denominator statement is

1 incorrect. It's stated as all hospitals  
2 performing bariatric surgery but the implied  
3 intent of that is it's all patients aged 18 to  
4 65 undergoing -- I'm sorry, elective primary  
5 bariatric procedures.

6 The denominator is well specified with  
7 CPT and ICD-9 pd codes listed.

8 Again, I talked about the intent of the  
9 exclusion and I would recommend that the  
10 developer really look carefully at the  
11 exclusion codes that are related to malignant  
12 neoplasms because that is significant for the  
13 measure.

14 The data sources indicated include  
15 electronic health record and registry data.  
16 However, no data on results from these systems  
17 were provided and no testing occurred.

18 A small thing. The type of score is  
19 listed as a continuous variable. This should  
20 be labeled as an outcome proportionate rate  
21 type of score.

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1           Testing. No reliability testing was  
2           completed or provided on actual data. A few  
3           minutes before we broke for lunch we had gotten  
4           some additional information but that is around  
5           published literature studies. So we have no  
6           reliability and validity testing on the actual  
7           data for the measure.

8           So I would rate the reliability of the  
9           measure and the specifications to be low.

10          CO-CHAIR FLEISHER: Barry, you want  
11          to now?

12          MEMBER MARKMAN: Yes. And so how are  
13          you going to collect the data? You see  
14          electronic records. Can you be more specific  
15          on how you're going to determine readmission?

16          DR. MORTON: Well, readmission as  
17          we've listed is through the data registry.  
18          With the data registries we've already  
19          discussed we do have the ability to have  
20          follow-up at 30 days that's based on from report  
21          from patient.

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1           So, it's similar to many other  
2 programs. And that way we're able to capture  
3 if the patient got readmitted to a different  
4 hospital which I think is an important  
5 component.

6           So, where exactly the readmission data  
7 can come from is a variety of sources including  
8 the electronic medical record. But ultimately  
9 the registry is the one that's going to give the  
10 very best results and that's what we're  
11 advocating for to be as complete as possible.

12           Because if we rely simply on  
13 individual hospitals we may miss that patients  
14 got admitted elsewhere. So we are stating it  
15 would be through the registry.

16           I think it's already been mentioned  
17 before. Given that this is a new measure some  
18 of those reliability issues may not come up.  
19 We may not have data for that.

20           We have looked at the exclusion  
21 criteria and the idea was to exclude all GI

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1 malignancies which is generally ICD-9 code 150  
2 subset X. But we will make sure that that's  
3 absolutely clarified.

4 CO-CHAIR FLEISHER: Any other  
5 comments regarding Collette's concerns?

6 MEMBER YATES: Who's the central  
7 collector of the data? Where does the data  
8 from -- I'm looking at S24 and it's "Each  
9 facility will maintain a registry." There's  
10 various numerous registries suggested. But  
11 who's the central data sorter if you will?  
12 Where does the data go?

13 DR. MORTON: The central data will be  
14 stored in the Metabolic and Bariatric Surgery  
15 Accreditation Quality Improvement Program.

16 Again, that's the one that has the  
17 highest reliability of data in terms of it being  
18 clinically derived. And we have that 30-day  
19 patient follow-up. So we're able to account  
20 for readmissions that might have occurred at a  
21 different hospital.

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1           MEMBER YATES:       But the actual  
2 collection process at the individual hospitals  
3 will be individual registries or databases as  
4 well as -- or statewide registries that they  
5 then are voluntarily sending up to MBSAQIP? Or  
6 are we assuming that all hospitals that are  
7 involved with that program are the ones that are  
8 sending data?

9           DR. MORTON: All the hospitals that  
10 are involved with MBSAQIP will be the ones  
11 sending data. There's pretty clear-cut  
12 criteria and training for how to obtain this  
13 data within the data registry itself.

14           The nurse reviewers who are the people  
15 collecting the data have very strict  
16 specifications about how to obtain that data.  
17 And so the sample sizes there were just to  
18 indicate that there are other means of doing  
19 this.

20           But we're advocating for the best way  
21 of doing this which is through the MBSAQIP where

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1 we have to find definitions and we also have  
2 standards in place to make sure that the data  
3 is reliable.

4 CO-CHAIR FLEISHER: Barry?

5 MEMBER MARKMAN: Yes. Is the data  
6 that you collect, I mean, is that also going to  
7 be used in your accreditation of the facility?

8 DR. MORTON: To this date we have not  
9 decided about specific thresholds for  
10 readmission. All we are asserting in this  
11 measure is that 30-day all-cause readmissions  
12 for bariatric surgery primary procedures  
13 should be collected.

14 In the future there may be some role  
15 that readmissions play around  
16 re-accreditation. But at this point in time  
17 what we're asking for is enforcement of the  
18 collection of the 30-day readmission rates.

19 CO-CHAIR FLEISHER: So let's stay on  
20 reliability. That fits in usability which is  
21 --

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1           MEMBER SIPERSTEIN:   Just to clarify  
2       because I was over there.   Does everybody  
3       participate in the registry?

4           We had this discussion that the  
5       penetrance of STS was 95 percent.   So, is this  
6       -- and I know John kept on saying we would prefer  
7       to use this.

8           I just want to know how many hospitals.  
9       Because it goes to the validity.   It goes to  
10      whether or not you're going to be able to get  
11      the data.   And then it goes later on to data  
12      burden.

13          MR. BRENGMAN:    It's currently 75  
14      percent of the programs in the country, 750  
15      total programs right now.

16          There is an increasing number as the  
17      new program comes online.   For those who don't  
18      know two major databases have combined and is  
19      going online right now to become the MBSAQIP  
20      which you see in the application.

21          Those are two similar databases, not

1       totally exactly the same. Now they're unified  
2       as a single data set. They have defined data  
3       collectors who are trained. There's no  
4       inter-reliability,                   inter-observer  
5       reliability, but there's then validation of the  
6       data ongoing and then at site visits where all  
7       things like complications and readmissions are  
8       audited. So, it's a very reliable database  
9       structure over time.

10               CO-CHAIR FLEISHER: Just to follow up  
11       on that. STS was able to tell us not only  
12       programs but cases and there's a strong  
13       correlation. What defines a program versus  
14       what defines a non-program surgeon who does  
15       bariatric surgery? Do you know how many people  
16       just do bariatric surgery out there, the number  
17       of procedures?

18               DR. MORTON: This is a question of how  
19       many bariatric surgeons there are?

20               CO-CHAIR FLEISHER: Well, it's  
21       actually -- the data is regarding programs in

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1        bariatric surgery, but that does not  
2        necessarily define the universe of bariatric  
3        surgery per se. STS can comment on that.

4                Not bariatric surgeons. What  
5        percentage of the bariatric surgery that CPT  
6        codes included in this measure would this cover  
7        in total? Do you have any idea?

8                DR. MORTON: As Matt mentioned, about  
9        75 percent of hospitals performing bariatric  
10       surgery are accredited.

11               That does not translate into the  
12       number of procedures because the lion's share  
13       of procedures are done by accredited hospitals.  
14       So, it's probably closer to about 85 percent of  
15       the total cases are done at accredited centers.  
16       That's the distinction between number of cases  
17       and number of hospitals.

18               MEMBER PITZEN: This is Collette.  
19       I'm sorry if I missed this but what I'm having  
20       a hard time grappling with is is there a  
21       registry already built? Are the data fields --

1 DR. MORTON: Yes.

2 MEMBER PITZEN: Okay. It would have  
3 been nice had you provided a data dictionary to  
4 us for us to understand that there was some  
5 structure present.

6 DR. MORTON: We're happy to do that.  
7 And there was actually a web link to the data  
8 elements and how they're collected and the  
9 criteria around them. But that's in the  
10 document, but we can make it even more explicit  
11 by sending the entire data dictionary if that's  
12 helpful.

13 CO-CHAIR FLEISHER: So let's vote on  
14 reliability unless anyone has a comment  
15 specific on reliability? Okay.

16 MR. SANCHEZ: Voting will now begin  
17 for 2a reliability. One is high, two is  
18 moderate, three is low, four is insufficient.  
19 Timer starts now.

20 We have 1 high, 11 moderate, 8 low, 2  
21 insufficient.

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1 CO-CHAIR FLEISHER: So we are in the  
2 gray area. So we will continue, correct?  
3 Okay, next.

4 MEMBER PITZEN: Again, there was no  
5 validity testing of the data that was submitted  
6 with the application. Literature again was  
7 provided today right before the meeting.  
8 However, that is not the actual testing of the  
9 measure. Therefore no meaningful differences  
10 were demonstrated because no data was  
11 submitted.

12 Again, the exclusion coding which can  
13 be corrected.

14 And then unsure of the potential  
15 impact of missing data. Again. So I still  
16 view this in the low area.

17 CO-CHAIR FLEISHER: Comments? Amy?

18 MEMBER MOYER: I was concerned about  
19 the lack of information regarding the risk  
20 adjustment. It sounded like there's nothing  
21 formal yet and some might submit un-risk

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1       adjusted. And it seems like that would have an  
2       impact on the readmission rate.

3               MR. BRENGMAN: Risk adjustment is  
4       being built into the new data set but we don't  
5       have it at this time.

6               And part of the problem with having two  
7       separate database collecting all of this data  
8       was it's not uniform enough to do that kind of  
9       work on.

10              And so having a unifying data set now,  
11       that can go on going forward. But we have to  
12       say that's going to be something in the future.

13              Validation of the data. I think  
14       there's a description in one of the measures of  
15       how the data is validated for the MBSAQIP  
16       database. I know we supplied it as an adjunct  
17       perhaps to one of the other measures. But it  
18       doesn't do any testing on it. I hear what  
19       you're saying, about how the data is collected.

20              CO-CHAIR FLEISHER: So, I would  
21       actually just like to get clarification from

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1 staff in that if risk adjustment is felt to be  
2 important given this criteria and they don't  
3 have it yet how do we interpret that, or how does  
4 NQF suggest?

5 MS. WINKLER: Well, risk adjustment  
6 is, you know, not always necessary and  
7 sometimes it is. It really impacts the  
8 validity of the measure results. And that's --  
9 certainly how you handle case mix adjustment is  
10 a potential threat to validity that you should  
11 consider in your evaluation.

12 DR. MORTON: If I could comment. We  
13 are in the process --

14 CO-CHAIR FLEISHER: If we could just  
15 let -- Helen will comment and then we'll be  
16 happy to hear the developer comments.

17 DR. BURSTIN: Yes, so just briefly  
18 it's risk adjustment or justification for the  
19 lack thereof is essentially the way you should  
20 view it.

21 We do have other outcome measures that

1 are not risk-adjusted and in fact are done  
2 through exclusions by, for example, taking the  
3 lowest risk cases or the lowest risk  
4 pregnancies and pulling those together. It's  
5 kind of a bit of a poor man's risk adjustment  
6 but that's acceptable as well. So the real  
7 issue is whether the absence of risk adjustment  
8 is justifiable or is it just that it's not  
9 ready. Sorry, John, go ahead.

10 CO-CHAIR FLEISHER: So, John, do you  
11 want to comment now?

12 DR. MORTON: Yes, I sure do. I think  
13 that's exactly what I was going to mention is  
14 that we have done some means of risk adjustment  
15 here by excluding revisional cases that we all  
16 know as surgeons are tougher cases, higher  
17 rates of readmissions.

18 We've also excluded the open cases  
19 because we know those cases tend to be done for  
20 specific reasons. They may be tougher  
21 patients to do.

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1           And we also excluded the extremes of  
2           age. So we have done some exclusions. And I  
3           do think it goes a long way towards addressing  
4           the issues that have come up where we are able  
5           to get a more reliable measure.

6           So we did exclude open, revisional and  
7           extremes of age. And we are working towards  
8           risk adjustment but we already have done some  
9           work in the area to get a homogenous population  
10          by excluding those populations.

11          CO-CHAIR FLEISHER: So essentially  
12          you've done segmentation as opposed to risk  
13          adjustment.

14          DR. MORTON: Exactly.

15          MEMBER MARKMAN: If you're talking  
16          about patient risk adjustment I can add that to  
17          have the procedure itself, to go for bariatric  
18          surgery and to have it approved through a prior  
19          auth process, it is extensive. And the  
20          clearances that you need to get the surgery  
21          include cardiac, pulmonary, psychological.

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1       You have to have other morbidities with that.

2               And I'm trying to help you here a  
3       little bit in terms of the risk assessment  
4       because they are scrutinized if they're under  
5       the insurance umbrella.

6               CO-CHAIR FLEISHER:   Okay.   Collette,  
7       did you -- or Rick?

8               MEMBER DUTTON:   Just to add to that  
9       though the most important risk which would be  
10      the patient's weight really does need to be  
11      accounted for and it doesn't sound like they've  
12      done that yet or they have data for that yet.

13              MEMBER MARKMAN:   To do the surgery you  
14      have to have certain BMIs which --

15              DR. MORTON:   Right.

16              MEMBER MARKMAN:   -- which you start at  
17      35 with a comorbidity.   If you're above 40  
18      you're kind of put a pass on it.

19              So in doing -- I mean, in terms of a  
20      risk assessment I don't --

21              CO-CHAIR FLEISHER:   But what I think

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1 Rick's saying is a lot of ours are above 60 at  
2 one of our hospitals and you know, that  
3 accounting for it at the high end. I think one  
4 of my hospitals -- yes.

5 Collette, any other comments or are we  
6 ready to vote?

7 MEMBER PITZEN: I just want to open it  
8 up to Keith who was the secondary reviewer to  
9 see if he had any additional comments.

10 MEMBER OLSEN: I don't. I agree with  
11 your assessments on the measure.

12 MS. WINKLER: One comment. I know I  
13 probably should have said something to  
14 reliability, but being an outcome measure for  
15 endorsement these -- all measures do need to be  
16 tested for reliability with formal reliability  
17 testing as well as testing for validity as  
18 explained in the criteria.

19 So Collette, could you review just to  
20 be sure we know what the status of that is?

21 MEMBER PITZEN: I'll try. So,

1       because no actual data was submitted with this  
2       measure    the   actual   reliability   testing  
3       between, you know, assessing the performance  
4       between sites, that was not present.

5               There was literature that was provided  
6       that talked about some of the reliability about  
7       capturing a readmission rate.   However, we  
8       don't have that testing present.

9               And again, I have some concerns about  
10      the specifications as they're written today and  
11      moving that into implementation will be  
12      difficult.

13              CO-CHAIR FLEISHER:     Okay, please  
14      vote.

15              MR. SANCHEZ:   Voting will now begin  
16      for 2b validity.   One is for high, two is for  
17      moderate, three is for low, four is for  
18      insufficient.   Voting starts now.

19              Please resubmit.   One more time,  
20      please.   We have zero for high, 9 for moderate,  
21      12 for low and 2 for insufficient.

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1 CO-CHAIR FLEISHER: So it actually  
2 does not -- right. We're at 61 percent. So it  
3 does not pass reliability. Validity.  
4 Reliability. Right.

5 So I think you've gotten a lot of  
6 guidance on some of the issues here. And this  
7 committee will be intact for two to three years  
8 as far as the members. So I think there will  
9 be a chance to improve the measure. Okay.

10 DR. MORTON: Well, we will certainly  
11 take it to heart.

12 CO-CHAIR GUNNAR: So, the next is 2559  
13 Bariatric Surgery Hospital Accreditation.  
14 Developers, would you like to provide an  
15 overview?

16 DR. MORTON: Yes. So this is measure  
17 2559 and the measure title is Bariatric Surgery  
18 Hospital Accreditation. We are the stewards.

19 I want to point out that bariatric  
20 surgery is a new surgical specialty.  
21 Accreditation has only been in place as a

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1 concept for about seven years now.

2 We do know that bariatric surgery has  
3 improved over time and one of the reasons for  
4 it is hospital accreditation.

5 As mentioned at the beginning we have  
6 had no measures submitted to NQF before and we  
7 view this particular measure of clear  
8 importance.

9 We're also aware that accreditation is  
10 not at all uniform. There is a performance gap  
11 here with only about 75 to 80 hospitals, 80  
12 percent of hospitals being accredited for  
13 bariatric surgery.

14 There are also some opportunities for  
15 harmonization amongst the different  
16 accrediting bodies, whether they be American  
17 College of Surgeons and ASMBS, MBSAQIP as well  
18 as some of the insurance payers.

19 But we do know that there are  
20 particular key elements of accreditation that  
21 are important, namely the standards involved.

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1 The data registry is absolutely critical to  
2 allow for benchmarking for quality improvement  
3 efforts.

4 In addition, the requirement for  
5 quality improvement as a condition for  
6 accreditation.

7 And finally, looking at the data  
8 provided there's 10 studies that have been  
9 performed. Seven of the studies are well in  
10 support of accreditation across the board for  
11 complication. Mortality and failure to  
12 rescue, resource utilization. And all of the  
13 papers utilize the same data set so there's not  
14 any difference in terms of where they're  
15 obtained from. And there are some particular  
16 issues with the papers against accreditation.

17 But we really view this as being  
18 critical for continued quality improvement for  
19 bariatric surgery. Without accreditation  
20 there will not be opportunity for collection of  
21 data as this is an additional resource for

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1 hospitals to provide.

2 And the data registry is absolutely  
3 critical to have the ability to benchmark,  
4 compare, move forward with your quality  
5 improvement efforts.

6 So, in sum we view accreditation as  
7 being absolutely critical for our future  
8 endeavors in quality improvement in bariatric  
9 surgery. And without it a lot of these efforts  
10 will be in peril.

11 And there is a considerable  
12 performance gap here with approximately 25  
13 percent of hospitals not being accredited in  
14 the United States. And I think there's a clear  
15 preponderance of evidence in support of  
16 accreditation as listed in the literature  
17 cited.

18 And this is a particular measure that  
19 is fairly easy to obtain and define and has been  
20 reliable to date. And we've had all the  
21 citations there listed.

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1           So I do appreciate the committee  
2           reviewing this and all the measures provided  
3           and appreciate the support they'll provide in  
4           bariatric surgery moving forward in terms of  
5           quality improvement and supporting the  
6           accreditation measure. Thank you.

7           CO-CHAIR GUNNAR: Dr. Roth.

8           MEMBER ROTH: This is Gary Roth.  
9           This is measure 2559 Bariatric Surgery Hospital  
10          Accreditation sponsored by the American  
11          Society of Metabolic and Bariatric Surgery.

12          Due to the inherent delays in my  
13          operating room during the workgroup call which  
14          I'm sure is unique to my operating room I missed  
15          the call. But I did review the transcript. It  
16          appeared to be quite an interesting discussion.

17          There was a comment made that there  
18          hasn't been endorsement of an accreditation  
19          measure like this. Was that relative to the  
20          NQF, or was that just relative to the bariatric?

21          MS. WINKLER: That was relative to

1 NQF.

2 MEMBER ROTH: Okay. So in that  
3 respect this may be a little bit different.  
4 I'm not sure how that's going to affect the  
5 discussion.

6 But bariatric surgery is as described  
7 relatively speaking a new field. The premise  
8 that there's going to be a favorable impact that  
9 accreditation will have upon surgical outcomes  
10 versus those institutions that are  
11 non-accredited.

12 One of the demonstrated drivers for  
13 accreditation for bariatric surgery is, as  
14 mentioned, is safety and effectiveness.

15 Also as mentioned accreditation for  
16 bariatric surgery programs is not uniform,  
17 about 75 to 80 percent. It described 730  
18 hospitals that were part of the registry and 250  
19 that are also doing bariatric surgery that are  
20 not accredited.

21 There is multiple accrediting bodies

1       reportedly which is an opportunity for  
2       harmonization among those.

3               Accreditation -- well, the measure is  
4       accreditation versus non-accreditation of  
5       course.

6               It's described as a process measure  
7       but there's also components of outcomes with  
8       what's in the discussion. Possibly that this  
9       could be some type of composite measure.

10              The process measures of course are  
11       such things as patient selection, level of  
12       critical care support, continuous quality  
13       improvement. But there's also outcome  
14       discussions too including case volumes and data  
15       collection --

16              CO-CHAIR     FLEISHER:        Just a  
17       clarification. I believe this would actually  
18       be considered a structure.

19              MEMBER ROTH:   Okay.   What I was  
20       reading described it as process in the  
21       application. Structure most certainly would

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1 fit more appropriately.

2 The accreditation of course  
3 incorporates many different processes as  
4 mentioned. Quality improvement requirements,  
5 multidisciplinary team.

6 And one of the premises of course is  
7 mortality and morbidity after bariatric  
8 surgery's influenced by center's accreditation  
9 status including such things as accredited  
10 centers having a reduction in failure to  
11 rescue.

12 The numerator is the number of  
13 hospitals that are accredited. The  
14 denominator of course all those that are  
15 performing bariatric surgery. And the cases  
16 were identified through ICD-9 procedure codes.

17 The key elements of the accreditation  
18 include such things as case volume, patient  
19 selection, and approved procedures, commitment  
20 to quality care standards, appropriate  
21 equipment and instrumentation, critical care

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1 support, continuation of care, data collection  
2 and continuous quality improvement.

3 Under evidence there was an extensive  
4 citation of the literature but there were no  
5 level 1 type studies. Of course, all the  
6 studies in this case are observational cohort  
7 type studies.

8 The literature though is really not  
9 homogenous in the sense that when you look at  
10 the studies 4 of the 10 that were described here  
11 actually do not support the concept of  
12 accreditation including morbidity, mortality  
13 issues, length of stay and cost.

14 So, within the literature the -- I  
15 would say the literature supports it you know  
16 at a moderate level at best.

17 CO-CHAIR FLEISHER: Comments?  
18 Comments from the developer?

19 DR. MORTON: Yes, I think it's  
20 important to take a close look at the literature  
21 because if you review the articles that are

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1       against accreditation there's numerous flaws.

2               I agree that the level 1 evidence is  
3       not going to be present there and it never will  
4       be.    This does not lend itself to level 1  
5       evidence in terms of randomization for  
6       accreditation.

7               One study against accreditation was  
8       from the Livingston and Good study should be  
9       dismissed frankly because it predated  
10      accreditation. It utilized the data set from  
11      2005 and accreditation did not start until  
12      2006.

13              The Michigan paper stated they did not  
14      see differences in accreditation. However,  
15      every center participating in the Michigan  
16      collaborative had elements of accreditation,  
17      namely volume standard, data registry, quality  
18      improvement, site visits. So they were all  
19      virtually the same.

20              The JAMA paper had significant  
21      methodological flaws in the sense that it

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1 compared it to a control group that was stated  
2 not to have accreditation. Unfortunately all  
3 of those control population were private payers  
4 who also had accreditation in place.

5 So it was not a very accurate  
6 assessment of a control group. So I think the  
7 preponderance of the evidence is for  
8 accreditation.

9 And one final point to make is I agree  
10 this is more of a composite measure and I'll  
11 readily grant that it has strong elements of a  
12 structural measure. Thank you.

13 MEMBER ROTH: And relative to the  
14 literature some of the support of literature  
15 also predates the accreditation as far as the  
16 dates that the articles were published.

17 DR. MORTON: I'm not sure which ones  
18 those might be because I was -- I'm just looking  
19 at them now and there's none that I can see that  
20 predate 2006 other than the Livingston article.

21 MEMBER ROTH: I'd have to go back to

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1 the references but I looked at them date-wise  
2 also and characterized them by the date they  
3 were published.

4 CO-CHAIR FLEISHER: Any other  
5 comments? Dr. Cima?

6 MEMBER SIPERSTEIN: John, can you  
7 just clarify one thing about the accrediting  
8 bodies?

9 So, there's the bariatric NSQIP but  
10 then there's five other accrediting bodies.  
11 Do they all use the same sort of -- are they all  
12 going to be measuring the same thing? Are we  
13 just saying accrediting is accrediting and  
14 they're all equal?

15 DR. MORTON: Well, the main  
16 accrediting body, the national accrediting  
17 body is the MBSAQIP.

18 The other ones that are listed there  
19 are national accrediting bodies that are  
20 represented by different payers, Cigna, Aetna,  
21 United as well as Blue Cross.

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1           Blue Cross in particular has cited the  
2           MBSAQIP standards and accreditation program as  
3           being consonant with what they're pursuing to  
4           the point that if you are an MBSAQIP-accredited  
5           hospital no further review of those standards  
6           are required. So that's one step forward  
7           already around harmonization with that  
8           particular payer.

9           Had discussions with the other payers  
10          to make sure that they're also moving in that  
11          direction.

12          That being said, there is very strong  
13          consistency along most of the criteria with  
14          those private payers.

15          MEMBER JARRETT: Hi, this is Mark.  
16          I've been kind of quiet all morning but I have  
17          to ask this question philosophically.

18          If we start saying that a measure is  
19          going to be are you accredited, where do we stop  
20          that? Do we start -- then we start saying well,  
21          do you have some Joint Commission accredited to

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1 be a stroke center? Do you have to be so-and-so  
2 accredited to be a patient-centered home?

3 I mean, accreditation is wonderful and  
4 I think everybody should do it, but the question  
5 is does that become a measure that people are  
6 going to say oh, here's another quality measure  
7 that we have to say yes or no on. That's my  
8 concern.

9 DR. MORTON: Well, I think bariatric  
10 surgery is a little bit different in the sense  
11 that it is new and there's not a consistent  
12 application of it. Unlike say the example  
13 cited there, Joint Commission, there's pretty  
14 good uniformity around that type of  
15 accreditation.

16 But for bariatric surgery there's not  
17 uniformity for that. There's still quite a gap  
18 in terms of who's accredited and who's not.

19 And I do think it bears a lot of  
20 elements that are going to improve both  
21 hospital performance and patient care.

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1           MEMBER JARRETT: Well, I beg to differ  
2 because Joint Commission for stroke is  
3 relatively recent in the last couple of years  
4 and I would say there's more variability in the  
5 treatment of strokes throughout the country  
6 which is a much more frequent event.

7           So if you were going to go somewhere  
8 towards that then I would say well then we  
9 should mandate everybody who takes care of a  
10 stroke has to be an accredited stroke center.  
11 And that's going to be -- that becomes a whole  
12 -- that's just the road I'm afraid we're going  
13 to go down.

14           That's, again, not knocking the fact  
15 that this is very critical, very important and  
16 I think everybody should participate in. The  
17 question is does it become an NQF measure.

18           CO-CHAIR GUNNAR: I think we have one  
19 other comment here. We appreciate that line of  
20 discussion but we'll move back to the evidence  
21 category. And any other discussion? Hearing

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1 none I think we're ready to vote.

2 MR. SANCHEZ: Voting will now begin  
3 for 1a evidence. One is for high, two is for  
4 moderate, three is for low, four is for  
5 insufficient evidence. Timer starts now.

6 We have 1 high, 9 moderate, 12 low, 1  
7 insufficient evidence.

8 CO-CHAIR GUNNAR: So I believe that's  
9 gray. So we will carry on.

10 MEMBER ROTH: Okay, under  
11 opportunities for improvement, performance  
12 gap, there most certainly are described worse  
13 outcomes especially in the older patients and  
14 ethnic minority patients. But not necessarily  
15 based purely on accredited or non-accredited  
16 centers using accreditation as the discussion  
17 point.

18 So there is a need to improve the  
19 quality in outcomes. I don't know that we see  
20 a specific performance gap associated --

21 CO-CHAIR GUNNAR: If I read this

1 correctly, not to interrupt, there is a gap.  
2 It's 20 to 25 percent of the facilities  
3 performing bariatric surgery are not  
4 accredited.

5 MEMBER ROTH: So is that affecting the  
6 outcomes.

7 CO-CHAIR GUNNAR: Okay. Any other  
8 discussion? Hearing none we'll go to voting.

9 MR. SANCHEZ: Voting will now begin  
10 for 1b performance gap. One is high, two is  
11 moderate, three is low, four is insufficient.  
12 Timer starts now.

13 We have 4 for high, 16 for moderate,  
14 3 for low, zero for insufficient.

15 MEMBER ROTH: On high priority  
16 180,000 bariatric surgeries are performed  
17 annually. Again the concept that 25 percent of  
18 the centers are not accredited.

19 There is a high priority associated  
20 with the number of surgeries that are performed  
21 per year and the known outcomes.

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1 CO-CHAIR GUNNAR: Any other  
2 discussion? Dr. Fleisher.

3 CO-CHAIR FLEISHER: Yes, just a  
4 question for clarification. High priority of  
5 accreditation? Versus high priority of the  
6 health of bariatric patients? The disease or  
7 the --

8 MS. WINKLER: Yes, it's more the  
9 condition of the patient.

10 CO-CHAIR GUNNAR: Ready to vote?

11 MR. SANCHEZ: Voting will now begin  
12 for 1c high priority. One is for high, two is  
13 for moderate, three is for low, four is for  
14 insufficient. Timer starts now.

15 We have 11 for high, 10 for moderate,  
16 2 for low, zero for insufficient.

17 MEMBER ROTH: Okay under 2,  
18 reliability, scientific acceptability of  
19 measure properties. Reliability testing, it  
20 was listed as not applicable I believe in the  
21 application.

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1           But the article that was just  
2 submitted today described reliability testing,  
3 demonstrated that the measure data elements are  
4 repeatable, reproducing the same results in a  
5 high proportion of the time when assessed in the  
6 same population at the same time period. So  
7 that was again the article that was just  
8 distributed today.

9           MS. WINKLER: Specifications come  
10 under reliability and I think we need to be very  
11 clear what this measure is. And so, let's be  
12 sure we're all thinking about it in terms of the  
13 same thing.

14           As a structural measure where the  
15 question is is this hospital or facility  
16 accredited and it's a yes or no dichotomous  
17 answer I just want to verify. Because some of  
18 the things that Dr. Morton has been saying  
19 confuse me just a little bit. So I want to be  
20 sure we're all on the same page that that is the  
21 measure.

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1 DR. MORTON: Accredited, yes.  
2 Accreditation is the measure. I'm happy to  
3 clarify any points of confusion. But  
4 accreditation is the measure.

5 MS. WINKLER: Okay. I think the  
6 secondary question to that is is it  
7 accreditation by any of those accrediting  
8 bodies? Or is it accreditation by your  
9 particular group?

10 DR. MORTON: What we're looking for is  
11 accreditation based on those components that  
12 we've described there. And we're looking at it  
13 specifically at national registries that allow  
14 benchmarking. And some of those payers do have  
15 some of that, but most of them do not.

16 And what we're looking forward to is  
17 having a single accreditation process and body  
18 where all of those that are mentioned there are  
19 going to incorporate the same measures.

20 MS. WINKLER: Okay. So trying to  
21 clarify again. So you're defining the data

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1 element of accreditation by whether they assess  
2 those elements.

3 DR. MORTON: Right. The best  
4 expression of accreditation is going to be  
5 through participation with the MBSAQIP. That  
6 is going to be the absolute best expression of  
7 the accreditation measure that we're putting  
8 forward.

9 We cite some of those other  
10 accrediting bodies as examples of other  
11 national accrediting agencies. And they  
12 incorporate some of the elements of MBSAQIP.  
13 But, what we are asking for enforcement for is  
14 accreditation through its best expression  
15 which is the MBSAQIP program. That  
16 incorporates national clinically derived data  
17 that allows for benchmarking, has a requirement  
18 for quality improvement, has the resources in  
19 place, multidisciplinary team. So, to be  
20 clear, that's what we're asking for.

21 CO-CHAIR FLEISHER: So, to

1 re-clarify, you're not asking about your  
2 database specifically, correct?

3 MR. BRENGMAN: To clarify, we are  
4 asking for accreditation that encompasses the  
5 seven components that are described in the  
6 application. So it has to have those seven  
7 components. If it has all of those seven then  
8 it qualifies as an accreditation program under  
9 this measure. Is that right, John?

10 DR. MORTON: That's correct, Matt.  
11 And the best expression of those seven  
12 components is through MBSAQIP where if there  
13 were another national organization that were  
14 able to supply those seven elements then that  
15 too would be -- that would be compatible with  
16 this accreditation measure.

17 MR. BRENGMAN: To give you an example  
18 of that, currently the Cigna program  
19 encompasses MBSAQIP with some additional  
20 volume data. So they would qualify because  
21 they have a program that has the seven

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1 components and then something else. So that  
2 would be fine.

3 CO-CHAIR FLEISHER: So who would  
4 actually be in charge of deeming this  
5 accrediting organization as meeting the  
6 measure to meet the measure?

7 I mean, in other words there has to be  
8 somebody who -- STS is in charge of the  
9 database. So we know who's in charge of the  
10 database.

11 Who deems an accrediting organization  
12 as stamping the approval to meet this measure  
13 if you join them?

14 DR. MORTON: Well, to be clear it  
15 would be MBSAQIP if that can be as clear as  
16 possible. It would be MBSAQIP.

17 We cite those other ones to point out  
18 that there are other accrediting bodies out  
19 there, but we're looking to harmonize all of  
20 these.

21 And MBSAQIP in the current

1 configuration is the one best example of it that  
2 we feel should be the leader and the certifier  
3 and the best expression of accreditation.

4 CO-CHAIR FLEISHER: Collette, can  
5 you?

6 MEMBER PITZEN: I'll try to add. It  
7 is confusing because if I try to take it in a  
8 development example someone has to be the owner  
9 and the steward of the measure that you're  
10 measuring, the numerator and the denominator.  
11 So somebody would have to be gathering all that  
12 data and trying to make the decision if those  
13 seven key criteria were met in terms of how this  
14 measure is specified.

15 If the intent is accreditation for  
16 MBSAQIP, I mean that is a different statement  
17 in your numerator.

18 CO-CHAIR GUNNAR: Dr. Grover?

19 MEMBER GROVER: I had two questions  
20 kind of along the same lines. Because you're  
21 kind of in a way putting the response, all your

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1 faith in the accreditation system and you  
2 aren't really controlling the data elements  
3 that go into that yourself.

4 The other question I had, and maybe,  
5 Reva or Helen, you can help me here, is that I  
6 thought historically, and maybe you've changed  
7 your policy. I thought when you brought  
8 measures before the NQF you generally had had  
9 them in place for a year or two or something and  
10 collecting data to show that you do have the  
11 reliability and the validity of collecting that  
12 data. Is that passé?

13 MS. WINKLER: No. We don't  
14 necessarily expect a great deal of data from new  
15 measures because they haven't been widely used.  
16 But we certainly expect reliability and  
17 validity testing for all measures that are  
18 submitted.

19 So that will generate some data. It  
20 may not be large amounts.

21 CO-CHAIR FLEISHER: Collette?



1           MEMBER PITZEN:   So, if I could just  
2           carry that theme along in terms of the criteria.  
3           Then we don't have the information to validate  
4           that that is occurring.

5           CO-CHAIR GUNNAR:   Dr. Yates?

6           MEMBER YATES:    The application as  
7           given, there are multiple different potential  
8           accrediting bodies.   It's not clear how many of  
9           them carry your organization's blessing.   It  
10          says that they may include the following  
11          organizations as opposed to dropping the "may"  
12          and just saying that they do include.

13          And the concern would be is that a  
14          moving target and within each of those  
15          accrediting bodies, are they moving targets in  
16          the sense that they could be changing one of the  
17          seven criteria that you've accepted one year  
18          but have dropped one or added one a year after.

19          DR. MORTON:   Hello?

20          CO-CHAIR GUNNAR:   We hear you.

21          MR. MORGAN:   I'm sorry, I missed that

1 last question. There was some sort of noise.  
2 Sorry.

3 MEMBER YATES: To reiterate, the  
4 application shows multiple different potential  
5 accrediting bodies. And the actual statement  
6 is, is that the other accredited bodies may  
7 include, but it's not clear that they have your  
8 organization's blessing for each of them. And  
9 that it's been vetted, that that process has  
10 been vetted.

11 So it's kind of hard to know what the  
12 real numerator is for those hospitals that are  
13 accredited.

14 MR. MORGAN: Well the numerator and  
15 denominator for hospitals that are accredited  
16 is actually pretty clear. We're going by the  
17 MBSAQIP of accreditation status. And based on  
18 that, about 75 percent of bariatric surgery  
19 hospitals are accredited.

20 To be complete, we included those  
21 additional payers and their accreditor

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1 strategies in order to be complete. To be very  
2 clear we view MBSAQIP as the appropriate  
3 accrediting body and ASMBS as a steward for this  
4 measure.

5 And so we're very clear about that.  
6 We're looking to harmonize what we're doing  
7 along with those other payors. And as I  
8 mentioned a little bit earlier, Blue Cross and  
9 Blue Shield have endorsed that and they're  
10 moving forward in that direction.

11 And we would like these other  
12 accrediting agencies to do the same. And  
13 they've given every indication that they're  
14 looking at a single standard.

15 MEMBER YATES: So in fact the  
16 statement would be other accrediting bodies  
17 might include the following organizations if  
18 they indeed meet the requirements as you've put  
19 them forth.

20 MR. MORGAN: Yes, I think that  
21 would be accurate. Yes. And again, the main

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1 reason that was listed was just to be you know,  
2 complete about what's the landscape currently.  
3 But we do view MBSAQIP as the leading model for  
4 accreditation.

5 CO-CHAIR GUNNAR: Dr. Dutton.

6 MEMBER DUTTON: We've had this  
7 discussion before at the NQF around for  
8 instance participating and registry. And it  
9 will come up again in a few minutes when we talk  
10 about the STS measure.

11 I think traditionally how this has  
12 gone here is the steward puts forward the  
13 criteria, i.e., participation and registry or  
14 accreditation. And here are the conditions of  
15 that. The measure would then be open to  
16 reporting by anybody who can meet those  
17 criteria.

18 And if we asked MBAS here if another  
19 registry appears with the same requirements or  
20 another accrediting agency appears that meets  
21 these criteria, would that be acceptable?

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1                   MR. MORGAN:   Yes.   I think that  
2                   would be acceptable as long as they met those  
3                   criteria listed.   And that's why we specify  
4                   them because we view those criteria as being  
5                   bedrock to the accreditation process.   And to  
6                   ensuring better outcomes.

7                   And so I think it is in some ways  
8                   very similar to what you've outlined.   And  
9                   participation in the data registry like the  
10                  next measure is a component of this composite  
11                  measure if you will, of accreditation.   As we  
12                  do view that as being perhaps the single most  
13                  important    aspect    of    accreditation    is  
14                  participation in the data registry.

15                  CO-CHAIR GUNNAR:   Collette.

16                  MEMBER PITZEN:   So just to clarify  
17                  process.   So if we treat this like all other  
18                  measures, there really hasn't been any testing  
19                  of the reliability of collecting and capturing  
20                  that information from the other sites.

21                  MR. MORGAN:   So if you're referring

1 to reliability of trying to determine if center  
2 is accredited or not, there are you know, years  
3 of data of demonstrating which centers were  
4 accredited. I'm not sure if that's exactly  
5 what you're asking, but we have -- we do have  
6 multiple years of the accrediting body as  
7 having listed who's accredited.

8 MEMBER PITZEN: This is Collette.  
9 I'll try again. When you're listing seven key  
10 elements of this is defining accreditation, if  
11 I translated that into a clinical measure that  
12 we're used to working with for diabetes, we have  
13 five components that we expect patients to meet  
14 in order to meet that numerator criteria. So  
15 I'm getting confused, is it as simple yes/no,  
16 you're accredited by someone, or is it you're  
17 meeting these key elements and then you would  
18 be considered to be accredited?

19 MR. MORGAN: I see. So in order to  
20 be accredited, a yes/no, you have to meet those  
21 seven. And there can be no exceptions around

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1       those seven. So it's an all or none. Does  
2       that make sense?

3                       Hello?

4                       MEMBER SIPERSTEIN: But if we --  
5       John, if we say if you're saying then another  
6       body can then accredit, assuming they meet  
7       those seven, we have good data from MBSAQIP that  
8       you can meet those standards, but do we have any  
9       reliable data from other accrediting bodies  
10      that they also would meet those standards?

11                      Because you either have to make the  
12      -- I think you have to make the statement, in  
13      order to be accredited, you have to be part of  
14      the metabolic MBSAQIP, or these are the  
15      standards that everyone needs to meet, and what  
16      data do we have that other accrediting bodies  
17      will provide us that data?

18                      I mean is that sort of what you're  
19      getting at Collette?

20                      MEMBER PITZEN: Yes.

21                      MR. MORGAN: Yes, so where we have

1 the data for this, and that those individual  
2 centers have met those individual components is  
3 around MBSAQIP, we don't have data for the other  
4 accrediting bodies. So again, just to  
5 reinforce, MBSAQIP is the leading and best  
6 example for accreditation that incorporates  
7 those seven different elements.

8 And we do have data from the  
9 different site reviews that have been  
10 performed. So as part of a site review, all of  
11 those elements are investigated for and  
12 accounted for. And the inability to meet those  
13 components, would not result in accreditation.  
14 So you have to meet all those component in order  
15 to be accredited.

16 Where we have good data and  
17 reliability around that is with MBSAQIP. The  
18 other ones that we mentioned there were simply  
19 to be complete and to give you examples and  
20 opportunities for further harmonization. But  
21 we do have very good data about centers meeting

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1       those components through the site reviews.

2                   And again, it is an all or none.  
3       They have to meet all of those criteria in order  
4       to be accredited.

5                   CO-CHAIR GUNNAR:   Collette.

6                   MEMBER PITZEN:   I'll try one more  
7       time.   So we don't have any information on the  
8       testing of that hypothesis?

9                   CO-CHAIR GUNNAR:   Dr. Yates?   Dr.  
10       Fleisher?

11                   CO-CHAIR FLEISHER:   Yes, just to go  
12       back to the criteria, because I've looked at the  
13       criteria again.   So it says appropriate  
14       instruments, am I correct.   The seven  
15       elements, the appropriate equipment and  
16       instruments can count commitment to quality  
17       care standards.   Those are nebulous enough in  
18       this specification, unless I missed somewhere  
19       in the specification that you define it that  
20       other organizations know what that means.

21                   Am I just -- not like we do -- John

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1 is, do you in this document define so other  
2 organizations can meet it, what appropriate  
3 equipment and instruments, and commitment to  
4 quality care standards mean, and what critical  
5 care support means?

6 MR. MORGAN: We most certainly do.  
7 And it's an 82 page document. And it is the  
8 standards associated with MBSAQIP. And it's  
9 absolutely detailed. In the interest of  
10 brevity in the application, it wasn't  
11 incorporated entirely there because it is an 82  
12 page document.

13 However this is a web citation,  
14 reference. But there is absolute clear data,  
15 specifications about exactly what that means.  
16 It's an 82 page document that can very easily  
17 be supplied.

18 CO-CHAIR FLEISHER: But that's to  
19 me your criteria, right? For your  
20 accreditation?

21 MR. MORGAN: Correct. Right.

1 CO-CHAIR FLEISHER: Not for any  
2 accreditation, correct?

3 MR. MORGAN: That's correct.

4 CO-CHAIR FLEISHER: Thank you.

5 CO-CHAIR GUNNAR: Amy?

6 MEMBER MOYER: I just -- I'm  
7 looking through the algorithm for evaluating  
8 reliability. And the first boxes are the  
9 specifications precise and ambiguous and  
10 complete. And we spent a lot of time  
11 discussing this. It feels like it maybe  
12 doesn't meet that first box.

13 CO-CHAIR GUNNAR: Any other  
14 comments? All right, I think we're ready to  
15 vote.

16 MR. SANCHEZ: Voting will now begin  
17 for 2A, reliability. 1 is high, 2 is moderate,  
18 3 is low, 4 is insufficient. Timer starts now.

19 Zero for high, 4 for moderate, 12  
20 for low, 6 for insufficient.

21 CO-CHAIR GUNNAR: So the measure

1 fails to pass. And therefor is not recommended  
2 for endorsement.

3 MS. WINKLER: Would it be fair to  
4 say that as a committee, because you considered  
5 this a high priority condition, you would  
6 certainly like to see you know, improved  
7 measures to come back on these because the topic  
8 area is an important one.

9 MEMBER GROVER: Yes, I feel  
10 strongly about that. I think what you all have  
11 heard here as a committee, a large committee  
12 here that spent probably an hour on this. So  
13 we obviously would like to see you succeed.  
14 And we just need more information and more  
15 experience. At least I'm speaking for myself  
16 on that issue.

17 CO-CHAIR FLEISHER:: Just --  
18 you're within the college, correct? I mean the  
19 organization sits within the college, so  
20 perhaps Cliff, you can help them as they come  
21 back.

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1 MR. MORGAN: Well we appreciate it.  
2 And what we would greatly appreciate.

3 MEMBER KO: So I just had a question  
4 about the structural measures. Because this  
5 is a, you know there was -- two of them are  
6 structure, volume and participating in  
7 accreditation program. And then the outcome.  
8 Outcome measure is easy enough.

9 But the structural measure is very  
10 interesting as we kind of go through our  
11 different eras of how we do things. You know,  
12 first it was structural volume. And then it  
13 was the process measures with Mark McClellan's  
14 piece in CMS and what not.

15 And then we've gone to outcomes.  
16 And as we run this program, outcomes are not  
17 enough. So maybe we go to composites, or maybe  
18 we kind of even go back to a -- maybe the biggest  
19 composite is an accreditation program, where it  
20 has those pieces, a structural piece of process  
21 and an outcome.

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1                   And it even has the piece of putting  
2           it into play.     Because then there's the  
3           accreditation itself.   Is this, I mean is this  
4           worthwhile.   Or is this something that's in the  
5           vision of this group of that piece?   Because  
6           that's a huge step forward.   It's a lot of work  
7           obviously to put the application forward.

8                   But it's a huge step.   And it might  
9           be in the right direction, but if it's the  
10          feeling of the group that accreditation like  
11          what this is, or the stroke program, or you  
12          know, any of those types of programs, is not in  
13          -- is not the direction of what NQF wants -- of  
14          a measure, then that's really helpful for us.

15                   CO-CHAIR FLEISHER:   Collette?

16                   MEMBER PITZEN:   I just wanted to  
17          make some additional comments.   Again, I think  
18          we're excited about that outcome measure.   And  
19          I'd like to see that come back through again.

20                   And I had a suggestion.   People do  
21          this to me all the time.   I think a really cool

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1 measure would be looking at the weight loss of  
2 patients undergoing this procedure, and their  
3 maintenance of that weight loss over time.

4 I think consumers, providers,  
5 purchases would be interested in that kind of  
6 outcome measures. Thanks.

7 CO-CHAIR FLEISHER: Amy?

8 MEMBER MOYER: From my  
9 perspective, I really struggle with  
10 accreditation as something that NQF would  
11 endorse. And I guess part of what I struggle  
12 to understand about it is I've never met a  
13 hospital that won't tell me they're accredited.

14 They won't tell me their mortality  
15 rate or their complication rate or you know, all  
16 these other things. But they're not shy about  
17 saying we're accredited. And so I struggle  
18 with what adding the NQF endorsement to that  
19 means, unless we're endorsing something  
20 specific. And then that feels like a direction  
21 we may not want to go in either. That was an

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1 issue I had.

2 MR. BRENGMAN: Can I ask a question  
3 about the accreditation thing. Because I'm  
4 also a little puzzled because it is, this  
5 particular accreditation is quite lengthy.

6 It's got elements of structure, you  
7 have to buy all this junk for your hospital.  
8 You have to have nursing pathways which are  
9 clearly process. And then it's also outcomes  
10 because if you don't meet certain outcome  
11 requirements you can't be accredited either.

12 So you have to do all of those  
13 things, and then you have to be inspected by an  
14 onsite inspector. And they have to sign off on  
15 you to meet these measures, which are all  
16 scientifically based. And the committee for  
17 MBSAQIP anyway, it's like 40 surgeons who have  
18 met for two years to come up with the criteria,  
19 who are knowledgeable in the field.

20 And so you have this accreditation,  
21 and it seemed to me we got derailed on sort of

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1       -- we tried to include too many people honestly  
2       in my opinion. But we could come back to that.

3               But I agree with Dr. Ko. I mean if  
4       you can't get that through as a single measure,  
5       do you want to see more of that? Did you want  
6       to see more of what the details of the structure  
7       were? Of what we do to make accreditation? I  
8       think the other two were a little easier.

9               MEMBER HANDY: So one of the  
10       problems that I had which was why I asked the  
11       question. Is there's Blue Cross/Blue Shield  
12       accreditation. There are other  
13       accreditations. And the way you open it up for  
14       the measure, made it unmanageable.

15               So I don't know what the committee  
16       would think of, you know if there was one  
17       accrediting body, that would change in my mind  
18       how it's organized, who owns it, who maintains  
19       it.

20               Now whether that would get through  
21       NQF is other people's opinions. That was the

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1 biggest problem I had.

2 MEMBER SIPERSTEIN: I mean there is  
3 a point that Amy brings up. And that is you  
4 know, every hospital in the country that gets  
5 paid by CMS is accredited by the joint  
6 commission. But we wouldn't be having this  
7 meeting if every hospital was doing great.

8 So accreditation in and of itself,  
9 just because they got the stamp of approval from  
10 some organization, and I know that's not the  
11 case with this. I mean but that's the point,  
12 should NQF be in the business of saying who's  
13 accreditation is more important than someone  
14 else accreditation.

15 I'm not sure if this is the right  
16 forum for this. I think the problem with this  
17 measure, in my personal line, was there was  
18 confusion about are we picking a winner, saying  
19 that you have to use a specific tool, you know  
20 we had this -- I remember being very vocal about  
21 this when we had, when I was on this three years

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1       ago or four years ago, about STS. Are you  
2       picking a winner.

3               I'm not sure we're in the business  
4       of picking winners. We shouldn't be. We're  
5       in the business of writing a very good design.  
6       And I think what was the problem about it for  
7       me was it kept on coming back and John kept on  
8       saying we're going to use MBSAQIP as the  
9       benchmark.

10              Well, the thing STS went away --  
11       always came back at me with, these are measures  
12       that anybody can collect the data on and do.  
13       And if you keep on saying well we're the  
14       racehorse, we're the winner, and that you need  
15       to -- we're hoping to get to us, that's not what  
16       NQF should be doing.

17              MEMBER LEVY: You know I think a way  
18       to think about this is accreditation is a lot  
19       like board certification for us. It's  
20       something, it's a benchmark, it's something  
21       we'd like everybody to have

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1           But then we don't say that all board  
2           certified surgeons are the same. And we  
3           continue to hold board certified surgeons to  
4           standards and to performance review and all  
5           those things.

6           So I think accreditation is not what  
7           we do at NQF. And it's not a measure, an  
8           outcome measure, it is just a benchmark. It's  
9           something that payers may clearly want to look  
10          at. But that's not what we're -- it doesn't  
11          describe quality in the way that we need to do  
12          that.

13          So I think if we look at the analogy  
14          between board certification and accreditation  
15          in these different kinds of programs, that  
16          might help us.

17                 CO-CHAIR GUNNAR: A.J.?

18                 MEMBER YATES: I'll take a contrary  
19          point, and to answer Dr. Ko's question. I mean  
20          there's accreditation in the board sense. But  
21          then you may help if NQF were to define as a

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1 structure process say had a paradigm for  
2 looking at this issue. Because it's come up  
3 again apparently more than once.

4 And the paradigm I would suggest is,  
5 is there a patient problem, or is there a  
6 patient population that is unique. Is that  
7 patient population helped by a hospital going  
8 through all the steps to reach accreditation  
9 and to maintain accreditation that includes  
10 data that comes -- goes out, comes back and  
11 causes quality improvement on a regular basis.

12 And is there data to show that that  
13 process helps. And lastly fourth, is there a  
14 critical mass of hospitals involved with it  
15 that you can maybe say that this is the winner.  
16 That this is a good thing to be involved with.

17 STS as an example, has evolved to  
18 that 95 percent winner status if you will. I  
19 would suggest that the bariatric group is very  
20 close to this, having I'm assuming ACS and the  
21 other group merged to create MSG.

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1           And your data's there in this  
2 unpublished paper.       Your data, your  
3 information's there. And it may be that you  
4 sold yourself short on this by opening it up to  
5 any other accrediting body, which is a black --  
6 a whole bunch of black boxes.

7           Whereas you really ought to be  
8 shooting at the problem are these obese  
9 patients going through surgery. There's a  
10 performance gap we can show. We can show that  
11 if people do go through the accrediting process  
12 and as a team we have to create all this  
13 information, and we have feedback loops in  
14 place that we're going to improve outcomes, I  
15 would definitely say that it is part of NQF's  
16 business.

17           You know it's -- and in terms of  
18 board accreditation, we're way, way away from  
19 anything like that as individual physicians.  
20 But the whole move for master you know,  
21 mastering certification, or recertifying and

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1 going through those processes, is mean to  
2 address that issue.

3 But at this level, for specific  
4 programs, for specific patient populations, I  
5 think it is within NQF's -- I think it's within  
6 their bounds to work with this. But I think  
7 that some guidelines should be made.

8 MEMBER PITZEN: Yes, I would just  
9 like to share an opinion. I think the QI  
10 movement has vastly changed in the last 20  
11 years. NQF has a hierarchical preference for  
12 measures. And there's nothing wrong with  
13 having accreditation and those kinds of bodies.  
14 But it's a means to the end of the outcomes that  
15 you desire.

16 So there may be less value in a  
17 simple yes/no, we're all accredited, we all  
18 have joint commission accreditation. But what  
19 are the pieces and components, what are the  
20 outcomes underneath that that are going to  
21 support population health and improvement and

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1 quality.

2 MEMBER MARKMAN: Yes, I'd just like  
3 to commend the two on your outcome. And I agree  
4 with Collette, that to take on a 30 day  
5 readmission initiative, and I've looked  
6 through the entire portfolio of our -- and we  
7 don't really have one, other than the CMF. I  
8 think there's a cardiac one.

9 But I really commend you guys for  
10 coming out and trying to accumulate the data on  
11 readmissions, which is very important to  
12 everybody. So kudos.

13 MEMBER SIPERSTEIN: I think the  
14 context of this measure's very important.  
15 Because obviously this is an evolving  
16 specialty. It's coming from their  
17 professional organization. And they are  
18 striving to improve the quality of their  
19 patient care and obviously have to commend them  
20 for putting these forward.

21 And in that context, I think even



1 the issue of being accredited or not is an  
2 important move towards improving quality in a  
3 fledgling areas. The implication for example  
4 in a more mature area like cardiac surgery are  
5 different.

6 But I think definitely in  
7 bariatrics in this context, it's a very  
8 important group of measures, and I would  
9 encourage the group to refine them and resubmit  
10 them.

11 MEMBER KO: I have a comment and  
12 then maybe a question. So the comment is to  
13 share just our quickly our experience in  
14 MBSAQIP in that we, for all the criteria that  
15 we vote on within getting the data and the  
16 statistics and reliability and doing the audits  
17 and whatnot, we persevere on that.

18 We spend hours and hours fighting  
19 and figuring out what's the best way to do this.  
20 And we could probably submit a ton of measures  
21 that would -- I mean I'm not trying to be -- that

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1 would probably pass our rigor here, with our  
2 rigor in the last couple of days.

3 What we have found in MBSAQIP is  
4 that the data are essential, but it's not  
5 enough. So even though we -- the participants  
6 of MBSAQIP have these measures basically at  
7 their fingertips, more is needed. And I think  
8 that all of us who have done QI realize that.  
9 There's much more needed than just whatever the  
10 mortality rate, or this risk adjusted  
11 readmission rate, or this whatever SSI, UTI  
12 rate.

13 And there's going to -- and I think  
14 that that's what STS is figuring out, that it's  
15 going to be a composite of more than just one  
16 thing. It's going to be a group of things.  
17 Like theirs is 11 things.

18 And these accreditation things are  
19 getting us potentially to that next level of  
20 getting all these pieces together. So whether  
21 it's these metrics that we have, or it's some

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1 kind of structural thing of, I don't know, some  
2 communication thing. Or an experience, that's  
3 the potential here.

4 And so I'm asking maybe Dr. Gunnar  
5 and Dr. Fleisher, that is this something that  
6 we can do in this committee, if we're a standing  
7 committee for two or three years, to identify  
8 that as a potential gap in our scan of the  
9 environment of this is a way to potentially  
10 raise that next level, so a next level within  
11 surgery.

12 CO-CHAIR FLEISHER: So I'm going to  
13 actually ask the NQF to comment. Because if  
14 you remember as we were charged yesterday, we  
15 were specifically told that the reason we went  
16 to standing committees, is to identify gaps and  
17 to go out and solicit developers.

18 And what you're hearing, I think  
19 very clearly, and I think that was said very  
20 nicely is, this is an area where there is a huge  
21 gap. And I think uniformly, the committee

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1 believes that improving bariatric care, can I  
2 say that for the committee, would be a thing  
3 that would be outstanding.

4 MS. WINKLER: Speaking more to  
5 Cliff's question, which I think is a little bit  
6 more global, and that is the fact that you're  
7 putting out an idea, and you're really like to  
8 get feedback on what people think of where  
9 measurement could or should go. You've gotten  
10 it from this group.

11 And one of the things I'm going to  
12 do, is in the report that this goes out, and you  
13 can help me write the section if you'd like, is  
14 to actually highlight that as a discussion area  
15 that you guys have considered and are asking.

16 And we can specifically call it out  
17 as something you're really like to see member  
18 and public comment on, in terms of how they see  
19 the next generation of measurement evolving and  
20 perhaps get some useful feedback. So we can  
21 use the process to help along that way.

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1 CO-CHAIR FLEISHER: And remember,  
2 that's a really a really important of member and  
3 public comment will be critical. Because --  
4 and that will hopefully come back to this  
5 committee when we get those comments. Not just  
6 up the chain within.

7 DR. BURSTIN: So yes, I just want to  
8 add that completely, Cliff, that's the reason  
9 we made you guys a standing committee. It  
10 doesn't just have to be measure you know, gaps,  
11 but also information, measurement science  
12 gaps.

13 What do we need to know to  
14 understand how benchmarking relates to  
15 measurement, or whatever the case may be. We  
16 can raise it up beyond the surgery committee,  
17 or we can have it be a surgery specific kind of  
18 initiative. All that would be exciting.

19 Just a couple of thoughts on the  
20 issue of structure measures because I think  
21 this is a really important question, really

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1 back. We have not to date endorsed measures of  
2 accreditation for largely many of the reasons  
3 that Barbara outlined, of whether they're  
4 within scope or not.

5 I will tell you that we've had many  
6 discussions over the years about for example  
7 should maintenance and certification  
8 potentially be a composite that has different  
9 elements within it. Those are the kinds of  
10 things that have come forward.

11 So when this measure came forward,  
12 my feeling was I really wanted this Committee  
13 to take a look at it because I thought it was  
14 an important discussion for all of you to have.  
15 I will say that again, as part of the work we've  
16 done to date as was pointed out by Collette, we  
17 do have a hierarchical preference for outcomes.

18 Structural measures and actually  
19 went back to the evidence task force. But  
20 again, specifically says structural measures  
21 are appropriate primarily when they are very

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1 well established structural process outcome  
2 relationships. And when it is not feasible to  
3 directly measure the outcome or processes.

4 So it still feels like that is a,  
5 okay we'll do that if we can't get the other one.  
6 So I think in general, the preference would  
7 certainly be for the outcome to bariatric  
8 surgery complications, pass through you know,  
9 whether there's leaks or other really important  
10 issues that should come forward. Those would  
11 be absolutely welcome I'm sure by the broadest  
12 array of multiple stakeholders at NQF.

13 And I think if you wanted to pursue  
14 the one around accreditation, I think the key  
15 is really to the specifics of what are those  
16 seven elements? Can they be reliably  
17 measured? And is that really something you  
18 think would have a strong relationship to  
19 outcome?

20 CO-CHAIR GUNNAR: Barbara?

21 MEMBER LEVY: Just one other point

1 about accreditation, and that's for how long is  
2 it now. You know a surgeon leaves one group and  
3 goes someplace else. The team changes.

4 I just have problems with that as a  
5 measure because it's not a static thing at all.  
6 It requires a lot of validation in terms of  
7 audit. And I just think looking at the  
8 outcomes is going to get us closer to where we  
9 want to be.

10 And Cliff, I totally agree with you,  
11 that in terms of implementation, of quality  
12 improvement, we've got a long way to go. And  
13 benchmarking is step one, that we know we need  
14 to do. But I'm not sure that the accreditation  
15 gets us where we want to be.

16 CO-CHAIR GUNNAR: Dr. Moss.

17 DR. MOSS: So I agreed strongly  
18 with what Cliff articulated. There is a  
19 significant gap, and being able to close that  
20 would be a step forward in surgical quality  
21 improvement. I just want to advocate that we

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1       need to do something more sophisticated then  
2       just a yes/no answer.

3               I mean if we're going to put these  
4       composites together with the elements of  
5       accreditation, we've got to put them together  
6       in a way that provides something more to the  
7       public then just yes or no. There has to be  
8       some sort of graded or comprehensive assessment  
9       to quality that people can use to compare one  
10      institution against another.

11             MR. MORGAN:   If I could make a  
12      comment.

13             CO-CHAIR FLEISHER:   John, did you  
14      want to say something before we move on?

15             MR. MORGAN:   Yes, I just you know,  
16      I appreciate all the comments. And I just want  
17      to emphasize again, that bariatric surgery is  
18      very early on in its quality improvement  
19      process.

20             And I love all the different  
21      thoughts involved here. But we have to walk

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1 before we can run. And to that end, what we  
2 know about accreditation is currently that it  
3 does make a difference for those outcomes.

4 Which one of those elements makes  
5 the biggest difference? That's area for  
6 further investigation. We're not as far along  
7 as other fields.

8 What we do know, is that the  
9 accreditation process has helped in terms of  
10 having better outcomes. And I would love to  
11 have more opportunity to refine the measures,  
12 particularly around accreditation, as well as  
13 readmission and move forward.

14 I am concerned about focusing in on  
15 specific outcomes. For leak for example.  
16 That's less than one percent of an occurrence.  
17 If we're really looking to move the needle of  
18 quality improvement, having the elements and  
19 tools in place to perform the quality  
20 improvement, is bedrock.

21 And that's where we view

1 accreditation as being so important to  
2 accomplish those tasks. Future inquiry will  
3 let us know what elements of inquiry -- of  
4 accreditation will make a difference. But  
5 right now, the only thing we do know is that  
6 accreditation makes a big difference in  
7 outcomes for patients.

8 But we really do appreciate the  
9 opportunity to present to you all. And we will  
10 be resilient and we will see what we can do to  
11 move the measures forward. Thank you very  
12 much.

13 CO-CHAIR FLEISHER: Thank you.  
14 Okay, we are going to attempt to get through  
15 some -- at least the composite measures.

16 MS. WINKLER: No, no, no. We need  
17 --

18 CO-CHAIR FLEISHER: No, we have the  
19 improvement and the status of surgical wounds.

20 MS. WINKLER: Right. If you'll  
21 recall, yesterday we didn't have the lead

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1 reviewer here for the meeting, and we delayed  
2 this measure. So is Debra Deitz on the line?

3 MS. DEITZ: I am.

4 MS. WINKLER: Hi Debra. Thank you  
5 for bearing with us and coming back again today.  
6 So we've had overnight members of the committee  
7 review the measure, so that we can have a more  
8 fair discussion of it at this point in time.

9 So we'll give you a couple minutes  
10 to introduce the measure, and then we'll  
11 proceed with the discussion.

12 MS. DEITZ: Okay, can I just -- we  
13 weren't sure that you were going to deal with  
14 us right first thing. And I just would like to  
15 see what other members of the team are also  
16 here, of the measure developer team.

17 So Caroline, are you on the line?

18 MS. GALLAHER: Yes.

19 MS. DEITZ: Okay.

20 MS. GALLAHER: Hi, this is Caroline  
21 Gallaher. I'm the CMS lead for the Home Health

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1       Quality Reporting Program.

2                   MS. DEITZ:   Okay.   And hopefully  
3       members of the Acumen team will also be joining  
4       us.   So we can get started, and we'll expect  
5       them to join us.

6                   So the measure that you're looking  
7       at today is as someone said yesterday, you  
8       needed to put on your home health hats.   And I  
9       think that's really important.

10                  This is looking at the improvement  
11       in status of surgical wounds in the home health  
12       setting.   Specifically how many episodes of  
13       care were there in which the patient had a  
14       better status of surgical wounds at the end of  
15       their home health stays, then they did at the  
16       beginning of their home health stay.

17                  And if calculated as most of the  
18       home health measures are, on data that comes  
19       from the OASIS data set, which is the standard  
20       data set that home health agencies need to  
21       collect.   It's part of the conditions of

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1 participation, that they collect these data as  
2 part of their comprehensive patient  
3 assessment.

4 And it's the information on the  
5 surgical wounds -- so they are actually  
6 recording the status of the wound as healing,  
7 or partially granulating, or not healing, as  
8 part of the measure. And while they are  
9 recording the patient's status as part of their  
10 normal clinical practice.

11 The CMS, Medicare, Home Health  
12 Compare website, currently reports a total of  
13 22 outcome in process measures for Medicare and  
14 Medicaid patients, so that consumers can review  
15 and compare agency performance. And this  
16 outcome measure is the only measure related to  
17 surgical wounds that is publically reported.

18 According to the date that we've --  
19 the most recent data that we've looked at, about  
20 25 percent of all the home health patients had  
21 a surgical wound. And about 13 percent of

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1 patients showed an improvement in their  
2 surgical wound during their home health  
3 episode.

4 And there are lots of home health  
5 wound care treatments that are known to improve  
6 wound healing, such as keeping the wound clean  
7 and dry. And avoiding activities that will  
8 cause problems for the wound, skin torsion or  
9 tension near the wound. Educating patients  
10 about lifting restrictions, and nutritional  
11 intake, and what's the signs of wound problems  
12 that they need to report.

13 The -- we looked at the data from the  
14 2011 measurement period, and the 2013, or 12/13  
15 measurement period, and we saw a change in the  
16 main risk adjusted performance rate on this  
17 measure. And increase from 86.2 percent to  
18 87.9 percent for the agencies in which there  
19 were at least 20 valid episodes, which is what  
20 we report.

21 And because of the high prevalence

1 of surgical wounds in home health patients, and  
2 because there are agency practices that are  
3 associated with improving that outcome, CMS  
4 believes it is important to continue publically  
5 reporting the measure.

6 And that's my presentation.

7 CO-CHAIR GUNNAR: So this is a  
8 discussion of an established metric and it's  
9 maintenance, so outcome measures. Dr.  
10 Markman.

11 MEMBER MARKMAN: I just put this  
12 together since last night. But this is a  
13 significant measure. And it's -- it hasn't  
14 been reviewed since 2009. This is the first  
15 time it's come up. And just -- I want to read,  
16 I'm going to ask you to help me with the  
17 numerator and the denominator because we're  
18 going to look at the rationale on our first  
19 vote.

20 And it says that the numerator is  
21 the number of home health episodes of care where

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1 the patient has a better status of surgical  
2 wound to discharge, compared to the start of  
3 care. And the denominator is all home health  
4 episodes of care in which the patient was  
5 eligible to improve.

6 So I mean my -- I'm not really sure  
7 what you mean by eligible, but then most wounds  
8 will heal and the what I'm concerned about, or  
9 I want you to explain, is why only 13 percent  
10 of those wounds have gotten better. Because  
11 most of them -- wounds heal. I would say would  
12 be 100 percent with the right care.

13 So that's my first question. And  
14 I'll give you an opportunity to answer. Why  
15 from the body of evidence, that we came up with  
16 only 13 percent?

17 MS. DEITZ: Well I think that the  
18 first thing is your question about what does it  
19 mean to be eligible to improve. And that means  
20 that when a patient has a surgical wound at the  
21 time of admission, and it is already starting

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1 to heal, or al -- you know fully granulating,  
2 then we would not say that they had an  
3 opportunity to improve, because the -- they  
4 could no long -- they could not be rated any  
5 higher at discharge.

6 So I believe that we submitted some  
7 data on a attachment that shows the number of  
8 wounds and how they fall out, but in terms of  
9 how many are actually eligible to improve.

10 MEMBER MARKMAN: For the  
11 committee, we're talking about millions of  
12 wounds. We're talking about four, on the  
13 episodes, there's 4.8 million episodes, and  
14 almost 3.9 wounds.

15 So it's -- I'm mean, I'm just  
16 looking for you know, I mean I see -- listen,  
17 I think that the -- that as part of the wound  
18 care team, you contribute -- your contribution  
19 is significant.

20 But in terms of finding the rational  
21 for the healing, which is what we're going to

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1 vote on, I see you know, and I have that graph  
2 in front of me. I just -- I see 13 percent.  
3 And this has been ongoing, so --

4 CO-CHAIR GUNNAR: Dr. Dutton?

5 MEMBER DUTTON: With an  
6 unfortunate amount of experience in the wound  
7 business, I think it would help the committee  
8 to understand what kind of wounds we're talking  
9 about. Obviously a closed surgical wound  
10 where it's sew up, the skin is closed and it's  
11 granulating, would not be included in this.

12 But are we talking about an open  
13 surgical wound, for example where it was  
14 superficially opened because of a superficial  
15 infection and we are now waiting closure. Or  
16 are we talking about decubitus diabetic foot  
17 ulcers and at that kind of wound?

18 MEMBER MARKMAN: That's the  
19 question because it's not defined, you know the  
20 types of wounds.

21 MS. DEITZ: I'm sorry, but it does

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1 not -- may not appear to be well defined in the  
2 actual measure. However, we have specific  
3 other measures that refer to and measure the  
4 healing of decubitus pressure ulcers, stasis  
5 ulcers, et cetera. And this is restricted to  
6 surgical wounds that are either healing by  
7 primary or secondary intent.

8 And there's a good deal of guidance  
9 that is provided to the clinician based on WOCN  
10 guidance as to assist them in determining what  
11 the status is of the surgical wound.

12 MEMBER MARKMAN: So these don't  
13 include Wagner's foot ulcers or -- these are  
14 just postoperative -- I mean are they open  
15 wounds? Or are they infected wounds? Or are  
16 they closed wounds?

17 And I brought this up during the  
18 discussion. I'm not really sure about your  
19 data set you know. And if you have additional  
20 information about it, I mean I actually review  
21 a lot of OASIS forms.

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1           But I you know, I just don't have a  
2           good grasp of what types of wounds and why such  
3           the low rate of healing.

4           MS. DEITZ: Well I think that it has  
5           to do with the number of wounds that are not  
6           moving from one status to the next at the time  
7           that the patient is discharged from home  
8           health. So the status that they can record is  
9           either newly epithelialized, fully  
10          granulating, early partial granulation, or not  
11          healing.

12          So and again, we provide the agency  
13          clinicians with a good deal of guidance about  
14          how they determine which of those -- which of  
15          those criteria apply. Definitions apply.

16          MEMBER MARKMAN: I mean this  
17          measure has been in place for five years. And  
18          you know, we have to show the relationship has  
19          a -- did it fluctuate from the 13 percent? Was  
20          it better one year? Or has it been kind of  
21          stable at 13 percent for five years?

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1 MS. DEITZ: Well I see this is  
2 discussed. I apologize because the team  
3 members who have been doing the analysis of the  
4 responses, and the healing are -- appear to not  
5 have joined us yet on the call.

6 CO-CHAIR GUNNAR: Well let's move  
7 forward.

8 MS. WINKLER: Yes, we can postpone  
9 it to another.

10 CO-CHAIR GUNNAR: Yes, Dr. Yates?

11 MEMBER YATES: Well I --

12 MS. GALLAHER: Yes, this is  
13 Caroline from CMS. I believe our other team  
14 members should be getting on the call in just  
15 a few minutes. So if the committee would just  
16 bear with us and you know --

17 MS. WINKLER: Actually we really  
18 need to you know, if we need to let you get  
19 yourselves together. If that's the case, if  
20 you could just hang there and let us talk about  
21 another couple of measures, we'll get back to

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1       you when you have your team all together.

2                   MS. GALLAHER:   Okay.   We weren't  
3       sure what time you were going to call us.   We  
4       weren't expecting to be quite this early.   So  
5       I apologize for us not being quite ready for our  
6       presentation.

7                   But yes, I would appreciate that if  
8       you would give us as little -- a few minutes.

9                   CO-CHAIR FLEISHER:   Okay, so thank  
10      you.   We will at the latest, 3:15, because  
11      that's when we're essentially finishing.

12                  So Jeff?   So we are going to go on  
13      to 2561.   And who's the discussant?   Do you  
14      want to take care of this one?

15                  CO-CHAIR GUNNAR:       Yes,   that's  
16      fine.   This is measure 2561 STS, aortic valve  
17      replacement composite score.   This is a new  
18      measure being introduced.

19                  DR. JACOBS:   Well good afternoon,  
20      and we'll do our best to get through as many of  
21      the   remaining   STS   measures   in   the   time

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1       available.

2               The first two measures that we have  
3       on the table now are two composite measures.  
4       And just to briefly give a history, the STS  
5       currently has a composite measure in place for  
6       isolated coronary artery bypass grafting.

7               And this measure is a four domain  
8       composite that is composed of 11 national  
9       quality forum endorsed measures that are  
10      grouped into the following domains. Absence  
11      of operative mortality, so that's risk adjusted  
12      mortality; absence of major morbidity, and then  
13      high quality interoperative care by using the  
14      internal mammary artery and appropriate  
15      perioperative medication usage. So that's the  
16      current CABG composite, the four domain  
17      composite.

18              What we're going to talk about today  
19      is an AVR composite and then an AVR CABG  
20      composite. The AVR composite is a two domain  
21      composite. The absence of operative mortality

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1 and the absence of operative morbidity.

2 And for all of the composite  
3 measures we've brought forward so far,  
4 including this one, the absence of morbidity is  
5 an any or none, for stroke, external wound  
6 infection, renal failure, reoperation and  
7 prolonged ventilation. So any of those events  
8 would qualify for morbidity as opposed to  
9 absence of morbidity.

10 And we've created a composite for  
11 aortic valve replacement surgery based on the  
12 structure just described, the two domain  
13 composite. And it's captured over a three year  
14 time interval because aortic valve replacement  
15 is done less commonly than coronary bypass  
16 grafting, and to have sufficient sample size,  
17 we used three years.

18 I think I'll stop there, that's a  
19 pretty good opening statement about it.

20 CO-CHAIR GUNNAR: So the question  
21 from the front table is, do you -- Jeff do you

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1 have a problem if we take these next two, both  
2 61 and what's the other one, the next one?

3 DR. JACOBS: 63

4 CO-CHAIR GUNNAR: 63 together? So  
5 AVR and AVR CABG together?

6 DR. JACOBS: Yes, I think that  
7 would make sense from a time efficiency point  
8 of view, because the issues are essentially  
9 identical.

10 CO-CHAIR GUNNAR: So Lynn Reede is  
11 also discussant on the 63. So we'll -- so a  
12 couple of just to frame this I think for others.  
13 So there's three parts of this. There is the  
14 morbid -- the absence of mortality, so within  
15 30 days, correct? Or is it the whole, any  
16 hospitalization?

17 DR. JACOBS: It's the same  
18 operative mortality measure we discussed  
19 earlier. So it's the union of 30 day plus  
20 discharge.

21 CO-CHAIR GUNNAR: All right, so

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1       it's the absence of mortality, yes or no, that's  
2       one. And then the absence of morbidity in one  
3       of those --

4                   DR. JACOBS:       Five morbidity  
5       domains.

6                   CO-CHAIR GUNNAR:   Five morbidity  
7       domains, which are all NQF endorsed.

8                   DR. JACOBS:   Correct.

9                   CO-CHAIR GUNNAR:   So you could have  
10      -- you could -- now here's my question. This  
11      was one that was left from our phone call.  
12      Would you be can -- if you died, so you had  
13      checked off on that, would you also be included  
14      in the morbidity realm as well?

15                   MR. O'BRIEN:   Not automatically.  
16      So that morbidity endpoint does not in -- you  
17      know, it's a --

18                   CO-CHAIR GUNNAR:   Stroke, died.

19                   MR. O'BRIEN:   Did any one or more of  
20      the following things happen.

21                   CO-CHAIR GUNNAR:   Stoke, died.

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1 MR. O'BRIEN: So your death would  
2 show up in the death --

3 CO-CHAIR GUNNAR: Right.

4 MR. O'BRIEN: Domain and then the  
5 stroke would show up in the stroke domain. And  
6 they'd both be counted, but the death would only  
7 be counted in the death domain, it wouldn't be  
8 recounted in the morbidity domain.

9 CO-CHAIR GUNNAR: Exactly. I just  
10 wanted to clarify. And then there's the  
11 cumulation, there's the domain which is the  
12 additive of those two, is the true or not?

13 MR. O'BRIEN: That is correct.

14 CO-CHAIR GUNNAR: So there is  
15 actually -- and then those are converted to the  
16 star composite for each of those. The absence  
17 of mortality, the absence of morbidity and then

18 DR. JACOBS: And then an overall  
19 star and a composite staring.

20 CO-CHAIR GUNNAR: And then the  
21 composite star, okay. And each.

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1 DR. JACOBS: Right, so when it's  
2 publically reported, one can go to the website  
3 and get the star rating for the whole composite.  
4 The star rating for any individual domain of the  
5 composite and can drill down even further and  
6 get the percentages of the different events as  
7 well that make up the composite.

8 CO-CHAIR GUNNAR: So this applies  
9 to both of these and Lynn did you want to say  
10 anything else?

11 MEMBER YATES: No, keep going.

12 CO-CHAIR GUNNAR: Okay. Dr. Yates  
13 -- or who's up, Dr. Dutton.

14 MEMBER DUTTON: Are the  
15 morbidities weighted in some way? Or do they  
16 occur at approximately equal incidents, so are  
17 they exerting the same weight on the measure?

18 MR. O'BRIEN: So just to step back,  
19 the composite consists of two domains and each  
20 domain has its own score. So in a sense it's  
21 a composite of composites, because we're taking

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1 a composite of mortality and morbidity, but  
2 morbidity itself is a composite.

3 So within the morbidity domain,  
4 that's constructed as an any one or more yes or  
5 no. It's a composite end point like you'd have  
6 in a clinical trial if the patient died or had  
7 a heart attack, yes or no.

8 So it's any one or more of the  
9 morbidities that occurred. So there's no  
10 explicit waiting there, it's just basically any  
11 one or more happened.

12 In terms of the weighting, sure --

13 MEMBER DUTTON: So if one of those  
14 occurs ten times more often than the other  
15 three, for instance the prolonged ventilation,  
16 does that end up driving this method?

17 MR. O'BRIEN: No, it's a great  
18 question. The end points that occur more  
19 frequently will tend to have a little bit more  
20 statistical influence.

21 But when we've looked at you know,

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1 different ways of weighting the individual  
2 morbidity components, and looked at item total  
3 correlations to kind of assess to what extent  
4 are they being driven by individual items, this  
5 was the approach that a surgeon committee felt  
6 you know, although it doesn't have explicit  
7 weighting, they looked at kind of the implicit  
8 weightings that went along with having it's any  
9 or none.

10 And you know, although certain  
11 items did contribute more, for example the  
12 prolonged ventilation, it had face validity  
13 with the panel that developed the measure. So  
14 that's an inherit feature of any kind of  
15 composite, and I think you've identified you  
16 know, one of the features of the approach.

17 But it was an approach that was very  
18 transparent during the development process.  
19 And had to face validity with the development  
20 team and stakeholders.

21 CO-CHAIR GUNNAR: Dr. Fleisher.

1 CO-CHAIR FLEISHER: I'm still a  
2 little confused. Can a patient for the  
3 composite score be counted twice or once for --  
4 in other words, if a patient had morbidity and  
5 mortality, it's back to yours, does that count  
6 once or twice against them, the hospital in the  
7 composite score?

8 MR. O'BRIEN: Well I mean, there  
9 are two different domains. So each domain is  
10 -- what's the percentage -- each hospital has  
11 estimated percentage of patients that die,  
12 okay. Now you're also going to estimate the  
13 percentage of patients that experience  
14 morbidity. Yes the same patient can  
15 contribute information to the estimation of  
16 both of those by percentages.

17 CO-CHAIR FLEISHER: But in other  
18 words, I'm basically asking almost a survival  
19 curve of death or what percentage of patients  
20 have death or am I at the composite score, death  
21 or a complication, is the composite score -- or

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1 really doesn't have an accurate score?

2 MR. O'BRIEN: On the morbidity  
3 there's not -- so the -- on the morbidity  
4 domain, that's the composite of did any one or  
5 more of these things happen. In that list,  
6 there's five things on the list, death is not  
7 one of the things on that list.

8 DR. JACOBS: In other words this is  
9 not an estimate of morbidity in survivors, it's  
10 an estimate of all patients that have  
11 experienced morbidity. And I think, if for  
12 face validity, it makes sense to me because one  
13 can die after a CABG with no complications, or  
14 an aortic valve replacement with no  
15 complications. Or one can die with a stroke  
16 and renal failure and prolonged intubation and  
17 five reoperations.

18 So I think those are different forms  
19 of death. It still ends up in a horrible  
20 situation with death. But it makes sense to  
21 track both of those things. But it's clearly

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1 not -- the second domain is not morbidity in  
2 survivors, it's morbidity in anybody.

3 CO-CHAIR FLEISHER: So just, is  
4 there any measure that says how many people  
5 walked out of the hospital with zero compli --  
6 walked out of that hospital without having a  
7 complication or die?

8 DR. JACOBS: I don't think that's  
9 the -- that would be easy enough for us to do,  
10 but I think that's not the way this composite  
11 is structured.

12 CO-CHAIR FLEISHER: But that's not  
13 -- okay, that's, that was my, okay.

14 CO-CHAIR GUNNAR: So let me frame  
15 it a little bit, because it's -- the way that  
16 plays in the -- it comes into play would be in  
17 the fringes, right. If I'm a two almost one in  
18 mortality, I am a two almost one in morbidity,  
19 I could be some two-two, but I could be a one  
20 statistically overall because the two added  
21 together would put me in the lowest category.

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1 True or not true?

2 DR. JACOBS: I think that's a Sean  
3 O'Brien question.

4 MR. O'BRIEN: That sounds true.  
5 That just --

6 CO-CHAIR GUNNAR: It's critical  
7 math, you can't do that.

8 DR. JACOBS: I'm a big picture guy.  
9 If you want to get to the mathematical  
10 statistics, you've got to talk to the PhD over  
11 here. I don't want him doing any operations,  
12 and I certainly don't want to be talking about  
13 statistics.

14 MR. O'BRIEN: I just say as maybe as  
15 an aside, STS does report a measure that's a  
16 positive six items, which is any of those four  
17 measures of morbidity or mortality where you  
18 know, the word composite can have different  
19 meanings and be confusing.

20 So here we're talking about a  
21 composite where we're taking a domain score

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1       that exists for mortality, a domain score each  
2       participant gets a score for morbidity, and  
3       we're basically averaging them together in a --  
4       you know after standardizing them, they kind of  
5       have a similar variance as denotes under the  
6       age, and they're going to get averaged  
7       together. Like you know, one goes into the  
8       other, divided two -- separately, separately.

9               CO-CHAIR GUNNAR: But each domain  
10       is rated separately. The mortality domain,  
11       the morbidity domain and then the composite  
12       domain.

13              MR. O'BRIEN: The composite is an  
14       average of the two domain specific scores, or  
15       it's literally an average, one plus the other  
16       divided by two.

17              DR. JACOBS: That's the math that I  
18       was getting at.

19              MR. O'BRIEN: And just to you know,  
20       they're all estimated together in a big  
21       multi-variant model where all the end points

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1 are analyzed and estimated simultaneously, and  
2 combined in fancy ways. But the math part is  
3 simple, it's just what we're estimating.

4 CO-CHAIR GUNNAR: So the second  
5 part of the question, the question we asked on  
6 the phone call, which you were great to take,  
7 had to do with volume number as to the  
8 application of this composite with regard to  
9 AVR and AVR CABG.

10 And they have -- given you cite that  
11 report, CABG numbers are significant, right?  
12 They're almost -- they're triple digit, it's  
13 100 I think is the average that --

14 DR. JACOBS: Yes, most common  
15 operation we do.

16 CO-CHAIR GUNNAR: Right, it's a  
17 common operation. The question here from a  
18 statistical point of view, and again, Sean,  
19 what you know, when we're looking at the average  
20 number of AVRs per facility at less than 30,  
21 it's 28-30. And the number of AVR CABGs coming

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1 in around 18, and not all facilities reporting.

2 So the -- it's interesting, there's  
3 a group that does AVRs, and then there's a group  
4 that does not do, small number, that actually  
5 doesn't do AVR CABG. The question is --

6 DR. JACOBS: You mean publically  
7 report?

8 CO-CHAIR GUNNAR: Publically --  
9 no, well reported to your registry.

10 DR. JACOBS: Well, so I don't mean  
11 to interrupt, but --

12 CO-CHAIR GUNNAR: No, please do.

13 DR. JACOBS: First of all, anybody  
14 who does any of these and participates in the  
15 data base reports all of these operations. The  
16 STS data base works by every cardiac operation  
17 being done at a hospital is reported. And  
18 that's verified at the audit process to  
19 comparison with the operative logs.

20 So if a center is performing AVRs or  
21 performing AVR CABGs, those show up in the data

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1 base. That's one fact. Another fact is that  
2 the sample size issue is a real sample size  
3 issue. Because even though AVR and AVR CABG  
4 are you know, both within the top five  
5 operations done by adult cardiac surgeons by  
6 volume, to get a significant sample size -- to  
7 get a large enough sample size in order to truly  
8 differentiate outliers in a meaningful  
9 fashion, we aggregate three years of data for  
10 this composite as opposed to one year of data  
11 for the CABG composite. That's the way we  
12 address the small sample size.

13 CO-CHAIR GUNNAR: So just to finish  
14 up that, just the point I was trying to make was  
15 that you had 970 in the last reporting cycle  
16 that reported having in -- of your reporting  
17 sites, 970 reported doing an AVR, but only 933,  
18 if I have the numbers correct, reported doing  
19 an AVR CABG. That was the point I was making.

20 Is that not all sites did an AVR  
21 CABG. 40 more sites, or rough 30 some, did an

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1       AVR, but not a combined procedure.

2                   DR. JACOBS:   Yes, I think that's  
3       believable.

4                   CO-CHAIR GUNNAR:   Right.

5                   DR. JACOBS:   Some smaller programs  
6       may not have a higher claim of valve replacement  
7       surgery, and certainly of valve CABGs.  They  
8       may just be focusing on you know CABGs alone,  
9       and referring those other more complex  
10      operations to other hospitals nearby.

11                  CO-CHAIR GUNNAR:   So I'm getting  
12      beyond the questions, because I hear Reva in my  
13      left ear.  And so we want to go and vote -- is  
14      there any more discussion on this first, just  
15      the rationale support, the health outcome?

16                  And so, let's   -- and this goes to  
17      -- remember, we're voting on both of these  
18      together.

19                  CO-CHAIR FLEISHER:   Well actually,  
20      you probably need to separately vote, or can you  
21      --

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1 CO-CHAIR GUNNAR: Yes, how can we  
2 do this? No, no, no, we're just. Can we do 61  
3 and 63 Helen, together? That was the question.

4 DR. BURSTIN: Yes, I mean if people  
5 feel comfortable that whatever they would vote  
6 on, would be for the other, let's just go ahead  
7 and we'll put them together in the report like  
8 that.

9 CO-CHAIR GUNNAR: The developers  
10 are fine with that, so.

11 DR. BURSTIN: Okay, that sounds  
12 fine.

13 DR. JACOBS: We're fine with that.

14 CO-CHAIR GUNNAR: Okay, so we're  
15 voting on both 61 and 63, and go ahead.

16 MR. SANCHEZ: Voting will now begin  
17 for 1A evidence. 1 is for yes, 2 is for no.  
18 The timer starts now.

19 CO-CHAIR GUNNAR: Yes, Dr. Grover  
20 is abstaining, and we lost Dr. Saigal and Dr.  
21 Asher. So we're at 21.

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1 MR. SANCHEZ: 21 for yes. Zero for  
2 no.

3 CO-CHAIR GUNNAR: So next, and I  
4 think Dr. Reede do you want to talk about--  
5 well, okay go -- yes, please.

6 MEMBER REEDE: For the performance  
7 gap, the issue looking at this particular  
8 measure was that some of the lower performing  
9 organizations didn't show up in the data. So  
10 there's still opportunity to improve there as  
11 a performance gap.

12 DR. JACOBS: I think if we look at  
13 the distribution of star ratings for first of  
14 all the AVR composite, we have a distribution  
15 of about three percent one star, 90 percent two  
16 star, and six or seven percent three star. So  
17 that's all comers.

18 Now unlike the isolated CABG  
19 composite where we have a very nice spectrum of  
20 publically reporting one star, two star and  
21 three star programs, I think as of now, the AVR

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1 public reporting is a little bit more skewed.  
2 But that I think is in part because it's a newer  
3 measure that we've just started to publically  
4 report, and it's a few years behind on the  
5 adoption curve of public reporting.

6 So I think ultimately, the same  
7 phenomenon will happen with a little lag to what  
8 happened with CABG. We'll continue to get more  
9 and more sites to publically report, and then  
10 the publically reported website will have a  
11 distribution very similar to what's the  
12 distribution in the actual data base.

13 Does that answer your question?  
14 Thanks.

15 CO-CHAIR GUNNAR: Yes, I mean I  
16 might take a different perspective, which is  
17 the entire composite measure is put together to  
18 establish a performance gap with regard to the  
19 outcomes, the collective outcomes, correct?

20 Because before the numbers were so  
21 small on mortality, and each and every one of

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1 the individual morbidity fields, that in fact  
2 the cumulative aggregate is meant to establish  
3 a performance gap. The question about how  
4 that's applied is really a threshold that is  
5 made -- is determined by the society, not -- and  
6 your aspirational goal was that everybody be a  
7 two or three star at the get go.

8 So the measure really I don't think  
9 is about -- or this domain of performance gap  
10 is actually I think, for me is high to moderate,  
11 because it actually expands on the cumulation  
12 of a small points of light, right?

13 So let me see if I've got that  
14 correct. Do I have that correct Reva? The  
15 very first thing?

16 MS. WINKLER: Yes, that's fine. I  
17 mean one of the advantages to composites, is  
18 that it does give you an opportunity to look at  
19 the data differently and perhaps open up  
20 variation in gaps that didn't exist in the  
21 individual components.

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1 CO-CHAIR GUNNAR: Any other  
2 discussion? So I think we can vote.

3 MR. SANCHEZ: Voting will now begin  
4 for 1B, performance gap. 1 is high, 2 is  
5 moderate, 3 is low, 4 is insufficient. Timer  
6 starts now.

7 CO-CHAIR GUNNAR: Vote again. We  
8 need one more. Oh, there it is, okay.

9 MR. SANCHEZ: We have 12 high,  
10 eight moderate, one low, zero insufficient.

11 CO-CHAIR GUNNAR: So I think we've  
12 -- I think this has been answered in its  
13 components, but I think -- any other discussion  
14 on the priority of this? I think we can go  
15 ahead and vote.

16 MR. SANCHEZ: Voting now will begin  
17 for 1C, high priority. 1 is high, 2 is  
18 moderate, 3 is low, 4 is insufficient. The  
19 timer starts now.

20 21 high, zero moderate, zero low,  
21 zero insufficient.

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1 MS. WINKLER: I just want to point  
2 out that because this is a composite measure,  
3 there's an additional category -- criteria  
4 under 1, and that is for composite  
5 specifically. And that really speaks to is the  
6 composite structuring, what the components  
7 that are put together, are they -- does it make  
8 sense? Is it logical? Does the quality  
9 construct have meaning as opposed to just sort  
10 of random throwing things into the pot.

11 CO-CHAIR GUNNAR: So my  
12 perspective is, is that it in fact is thoughtful  
13 and speaks to the significant outcomes that one  
14 would look to in evaluating the overall quality  
15 of the surgical program under the evaluation.

16 My issue here and what I have  
17 mentioned numerous times I think, is the issue  
18 regarding the amount of noise that can exist  
19 when you have low numbers where an event can  
20 cause a big swing in impact on your overall  
21 score. And you know, that gets smoothed away

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1 substantially when you have the higher CABG  
2 numbers.

3 And fundamentally I don't know why  
4 this wouldn't all be in one. It's about the  
5 program, and why shouldn't AVR or AVR CABG and  
6 CABG just be put together. That's the first  
7 question.

8 And then the second question is, and  
9 we were reassured on the phone about -- during  
10 a conference call, about the movement between  
11 one category to the next, that has -- but the  
12 data on that is relatively small, for  
13 particularly AVR CABG.

14 So I don't know that there's, from  
15 my impression, that there's great data to argue  
16 against the thought that I could in fact in one  
17 cycle be in reporting if I was a lone small  
18 program, that I could do my 18 or 30 AVR, AVR  
19 CABGs, have no mortality or morbidity  
20 associated with that on one cycle, yet the next  
21 cycle be absolutely terrible but really have

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1 the same program, and no difference other than  
2 the fact that I had some events accumulate in  
3 one reporting period because I'm a low number.

4 So I'll stop there.

5 DR. JACOBS: Yes, so I'll try to  
6 address a few of these points. I think the  
7 issue of sample size is an important issue, and  
8 that is the reason why this is reported over a  
9 three year time interval instead of a one year  
10 time interval. And that is why confidence  
11 intervals are use.

12 And with the confidence intervals  
13 that we used and with the three year reporting  
14 interval, the sample size is large enough that  
15 we can say that there's a 97 and a half percent  
16 Bayesian probability that a one star provider  
17 or a three star provider is different from a two  
18 star provider. And that's regardless of  
19 programmatic volume when one uses three years.

20 Second, your discussion about  
21 creating a composite of composites. And

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1       that's the next step in all of this. This is  
2       an exercise in building blocks.

3               So first we created all of the  
4       individual measures and put them through NQF  
5       endorsement. That allowed us to then create  
6       composite scores for each of the lesions.

7               The next step in this is a composite  
8       of composites where one can have a programmatic  
9       composite that would take into account mitral  
10      valve surgery, aortic valve surgery, AVR CABG  
11      and CABG. And that composite of composites  
12      would have the added value of potentially  
13      creating sample size large enough for  
14      individual provider public reporting to  
15      complement the programmatic public reporting.

16              MR. SHAHIAN: And this is Dave  
17      Shahian. The only thing I would add to that is  
18      that although we are building that composite of  
19      composites, in fact patients are having one  
20      procedure.

21              So I think from a patient

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1 perspective, they not only want the overall  
2 assessment of a program, but they want to know  
3 how did that program do with my planned  
4 procedure? Because there are in fact programs  
5 that do proportionally a lot more valve surgery  
6 for example.

7 And it is not necessarily true that  
8 a program that excels in CABG surgery is going  
9 to excel in valve surgery. So the ability to  
10 drill down to the level of individual  
11 procedures we think is important for the  
12 consumer.

13 DR. JACOBS: Yes, there's  
14 published literature that shows that a program  
15 that's excellent with operation A in cardiac  
16 surgery, may or not be excellent with operation  
17 B. And I think Dave's point is a good one, that  
18 an individual patient is going to be having an  
19 aortic valve replacement, and he wants to go to  
20 a place that he knows is good at that operation.

21 CO-CHAIR GUNNAR: I just want to

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1 make sure we touched on all the arguments. Any  
2 -- Dr. Reede anything else from you?

3 Oh, I was just asking if -- I just  
4 wanted to make sure we touched on all of the --  
5 we put all of the arguments out there.

6 MEMBER REEDE: We did, thank you.

7 CO-CHAIR GUNNAR: Any -- Dr.  
8 Temple?

9 MEMBER TEMPLE: Just sort of a -- I  
10 guess it's a phase validity and it fits this  
11 composite thing, it -- structure area. So as  
12 a surgeon it seems like if you have a -- if you  
13 have two complications, your score is the same  
14 as you have with death and a complication. Is  
15 that right kind of for the composite?

16 MR. O'BRIEN: No, so it doesn't  
17 work out that way.

18 MEMBER TEMPLE: Okay, good.

19 MR. O'BRIEN: So in terms of the  
20 weighting between mortality and morbidity  
21 endpoints, there's not any really great

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1 rational objective way to determine the  
2 weighting.

3 MEMBER TEMPLE: Right.

4 MR. O'BRIEN: So the approach that  
5 was adopted by the committee, was to take the  
6 two domains and weigh them equally, recognizing  
7 that we wanted to avoid a situation where one  
8 of the two domains dominated because of having  
9 one of the scores that has a very large standard  
10 deviation. You take a measure that has a very  
11 large standard deviation and average it with  
12 something that has very little variation, the  
13 overall average is being dominated by the one  
14 with the larger variation.

15 So they were first standardized to  
16 have the same standard deviation, then averaged  
17 together so you could say that they were being  
18 weighted equally. Of course when you do that,  
19 those weights have implications and it turns  
20 out that so, you know if you said what's the  
21 impact on that score if I increased my avoidance

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1 morbidity by one percentage point, how much is  
2 that going to change my composite score? Would  
3 that change it as much improving my mortality  
4 by one percentage point?

5 And the answer is no. The impact of  
6 improving on mortality has a substantially  
7 larger impact on improving the overall  
8 composite than the one percentage -- the  
9 equivalent percentage point difference in  
10 morbidity. And I don't recall the exact  
11 numbers, but it's a ratio that I can pull off  
12 this.

13 MEMBER TEMPLE: No, no. I just --  
14 when I read, I just wanted to make sure that that  
15 was the case.

16 CO-CHAIR GUNNAR: Any other  
17 discussion? Get ready to vote.

18 MR. SANCHEZ: Voting will now begin  
19 for 1D, composite. 1 for high, 2 for moderate,  
20 3 for low, 4 for insufficient. Timer starts  
21 now.

1                   We have 13 for high, 8 for moderate,  
2                   zero for low, zero for insufficient.

3                   CO-CHAIR GUNNAR:    So we'll run  
4                   through reliability and by validity and  
5                   feasibility fairly quickly.    We've been  
6                   through this before.        If there's any  
7                   discussion, just stop and raise your hand.

8                   So reliability?   Time for a vote.

9                   MR. SANCHEZ:   Voting will now begin  
10                  for 2A, reliability.    1 for high, 2 for  
11                  moderate, 3 for low, 4 for insufficient.   The  
12                  timer starts now.

13                  We have 17 for high, four for  
14                  moderate, zero for low, zero for insufficient.

15                  CO-CHAIR GUNNAR:    Validity, any  
16                  discussion?   None, go for vote.

17                  MR. SANCHEZ:   Voting will now begin  
18                  for 2B, validity.    1 is for high, 2 for  
19                  moderate, 3 for low, 4 for insufficient.   Timer  
20                  starts now.

21                  Still waiting on two votes, so if

1       you could please resubmit.

2                   CO-CHAIR GUNNAR:   Yes, vote again.  
3       We might have missed -- Dr. Temple stepped out,  
4       so.

5                   MR. SANCHEZ:   We have 15 for high,  
6       five for moderate, zero for low, zero for  
7       insufficient.

8                   MS. WINKLER:   And because it's a  
9       composite, there's one more criteria under  
10      scientific acceptability. And this is really  
11      empirical analysis that supports the composite  
12      construction. Really responds to some of your  
13      questions about the relative frequencies of the  
14      various contribution to the composite.

15                   CO-CHAIR GUNNAR:   So there are two  
16      publications, one for each of these measures in  
17      the Annals of Thoracic Surgery, which is a  
18      society, STS journal, that walks through the  
19      construction and the validation of the  
20      composite measure for both of those. For both  
21      61 and 63.

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1           There is no other evidence outside  
2           of that to my knowledge, other than the  
3           extensive amount of evidence that exists for  
4           each of the components.

5           DR. JACOBS:   Yes, I would agree  
6           with that.   I would just clarify by saying that  
7           the Annals of Thoracic Surgery is a free  
8           institution from STS.   They're separate  
9           institutions.   STS uses the Annals as their  
10          official journal, as does another surgical  
11          organization, the Southern Thoracic Surgical  
12          Association.

13          And papers that are presented at the  
14          STS meeting are submitted for publication to  
15          the Annals, but not all of them actually get  
16          published.   They go through a separate, very  
17          rigorous peer review process, which is  
18          completely separate from STS.

19          So these papers have certainly gone  
20          through a separate peer review process that's  
21          outside the scope of the Society of Thoracic

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1 Surgeons. And it is correct that these are the  
2 papers that have been used to publish and  
3 provide the scientific basis of these  
4 composites, because they are new tools, and  
5 these are the first publications about them.  
6 But I think they provide ample evidence.

7 CO-CHAIR GUNNAR: Dr. Reede, any  
8 additional comments?

9 MEMBER REEDE: Just that  
10 correlation was done really at the participant  
11 level, so that they looked at on the Pearson and  
12 the Spearman, they did that sort of analysis of  
13 the correlation between the components.

14 MR. O'BRIEN: I'm sorry, I didn't  
15 hear the end of your comment, and I'd like to  
16 respond if it's something I should have picked  
17 up.

18 MEMBER REEDE: Oh, there's really  
19 nothing to respond. It's just saying that you  
20 actually did the correlation between the  
21 different measures to bring the composite to --

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1 to validate the composite.

2 MR. GUNNAR: Any other discussion?

3 Then we can go ahead and vote on 2D.

4 MR. SANCHEZ: Voting will now begin  
5 for 2D, composite. 1 for high, 2 for moderate,  
6 3 for low, 4 for insufficient. Timer starts  
7 now.

8 We have 13 high, seven moderate,  
9 zero low, zero insufficient.

10 CO-CHAIR GUNNAR: Feasibility, any  
11 further discussion? Ready for a vote.

12 MR. SANCHEZ: Voting now will begin  
13 for criteria 3, feasibility. 1 for high, 2 for  
14 moderate, 3 for low, 4 for insufficient. Timer  
15 starts now.

16 CO-CHAIR GUNNAR: We need -- are we  
17 good? Okay.

18 MR. SANCHEZ: We've got 12 for  
19 high, eight for moderate, three for low, four  
20 -- I'm sorry, zero for low, zero insufficient.

21 CO-CHAIR GUNNAR: And usability

1 and use. Any further discussion? Let's carry  
2 on, vote.

3 MR. SANCHEZ: Voting will now begin  
4 for criteria 4, usability and use. 1 for high,  
5 2 for moderate, 3 for low, 4 for insufficient  
6 information. Timer starts now.

7 We have 17 for high, three for  
8 moderate, zero for low, zero for insufficient  
9 information.

10 CO-CHAIR GUNNAR: And so the  
11 overall suitability for endorsement, any  
12 further discussion on these two measures?  
13 We'll vote on these collectively then.

14 MR. SANCHEZ: Voting will now begin  
15 for overall suitability for endorsement. 1  
16 for yes, 2 for no. Timer starts now.

17 CO-CHAIR GUNNAR: Please re-vote.

18 MR. SANCHEZ: 20 for yes, zero for  
19 no.

20 CO-CHAIR GUNNAR: So resounding  
21 yes for both 61 and 63.

1 CO-CHAIR FLEISHER: Okay, we're  
2 going to go to 0734, 0113 and 0456. If we can  
3 get this done in 15 minutes.

4 DR. JACOBS: Sure.

5 CO-CHAIR FLEISHER: And does  
6 anybody have an objection to doing all three  
7 together, the databases? We can vote  
8 independently for endorsement if anybody feels  
9 they need to be separated out.

10 DR. JACOBS: All right, so what I'd  
11 like to do first is talk a little about the  
12 penetration of each of these databases. So  
13 these three measures successively are  
14 participation in national database for  
15 pediatric congenital heart surgery, then for  
16 adult cardiac surgery and then for general  
17 thoracic surgery.

18 We know for pediatric cardiac  
19 surgery, that there's 125 programs in the  
20 United States that do pediatric heart surgery.  
21 And currently 108, or 86 percent of those

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1 programs, participate in the STS database.

2 Those 86 percent of programs  
3 represent over 90 percent of the cases because  
4 all of the large volume programs participate.  
5 However, 14 percent of the lower volume  
6 programs do not participate in the STS  
7 database.

8 In general thoracic surgery, --  
9 well first, in adult cardiac surgery, we've  
10 talked about multiple times already, that we  
11 have 90 to 95 percent of the programs and over  
12 95 percent of the operations. The programs  
13 that we don't have in the majority are VA  
14 hospitals, military hospitals or Kaiser  
15 hospitals.

16 And finally, in general thoracic  
17 surgery, the denominator is a little bit more  
18 allusive, because general thoracic surgery is  
19 performed by thoracic surgeons and also by  
20 general surgeons. The STS database has  
21 welcomed the participation of general surgeons

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1 in the thoracic database along with board  
2 certified thoracic surgeons.

3 And there's no actual source of data  
4 that can provide a true denominator, but my best  
5 estimate of penetrants of the thoracic database  
6 would be that we capture 30 to 40 percent of the  
7 thoracic surgery done in the country.

8 CO-CHAIR FLEISHER: So --

9 DR. JACOBS: The only other thing I  
10 would say about these measures, and the topped  
11 out concept, because clearly at the concept of  
12 topped out's going to come up at least for the  
13 adult cardiac one, and maybe for the pediatric  
14 one, although I think at 86 percent is probably  
15 not topped out.

16 One should not underestimate the  
17 value of having this measure exist when one goes  
18 to meet with a middle manager in the hospital and  
19 asks for allocation of resources to support the  
20 existence of this database and the personnel to  
21 collect the data for the database.

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1 I've had to go to hospital  
2 administrators in my own hospital and in other  
3 hospitals and explain to them why this is  
4 important. And when we can say that it's an NQF  
5 endorse measure simply to participate, that is  
6 a tool that gets a middle manager to authorize  
7 the writing of the check to pay for the salary  
8 of the person to enter the data. So --

9 CO-CHAIR FLEISHER: So the key  
10 question is, you have multiple outcome, which  
11 are endorsed by NQF, and then which could argue  
12 for the same thing. So why do you need the  
13 database itself?

14 DR. JACOBS: So -- well I think that  
15 question has a different answer for adult  
16 cardiac, general thoracic and congenital.  
17 Because in congenital there's really only two  
18 NQF endorsed measures. This and reporting  
19 mortality stratified by STAT categories.  
20 Those are the only two congenital measures that  
21 are endorsed that involve the STS database.

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1                   In thoracic there's somewhere  
2                   between that and what we have for adult cardiac.  
3                   And I think it makes a cleaner argument with the  
4                   hospital administrator to have these measures  
5                   there then just to say we need this to capture  
6                   the data for this endpoint measure. Sometimes  
7                   the act of participation being an endorsed  
8                   measure just gets the guy to write the check  
9                   easier.

10                   And there's data that shows that the  
11                   very act of participation in and of itself  
12                   improves quality. And we've published that.  
13                   There are papers that have published that show  
14                   that database participation alone leads to  
15                   improvement in quality.

16                   CO-CHAIR FLEISHER: Why don't --  
17                   the question is going to come up whether we're  
18                   going to have sufficient time. So why don't  
19                   while they're here, we may have to continue this  
20                   on the call.

21                   DR. JACOBS: Okay.



1 CO-CHAIR FLEISHER: But why don't  
2 we use the next, if it's okay, 10 minutes, to  
3 have a discussion with the developers while  
4 we're all in the room, which is very different  
5 then on the call potentially. And then we  
6 could potentially vote on the call about this.

7 MEMBER HANDY: Well I just wanted  
8 to make the point that many of the foregoing  
9 outcomes that we had talked about, especially  
10 with regard to the burden of reporting, is  
11 predicated on the presence of these databases.  
12 Without these databases are essential to the  
13 execution of those measures.

14 CO-CHAIR FLEISHER: True, but do  
15 you need the databases to be endorsed to  
16 actually -- there are other databases utilized  
17 for outcomes, correct? In which the database  
18 participation is not endorsed. So that's not  
19 a definite linkage to my knowledge. Helen?

20 DR. BURSTIN: That's correct. I  
21 will say these issues, these measures have come

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1 up all the way to the level of the NQF Board of  
2 Directors because this became an issue a couple  
3 of years ago. Actually right around the time  
4 Jeff and his group submitted the pediatric  
5 surgery one.

6 We also had one from ACR, on  
7 participation and radiation dose registry as  
8 well. Those are the two new ones. And there  
9 was a sense by the board, and we've really been  
10 trying to follow this very much along the lines  
11 of the comment I read earlier from the evidence  
12 task force report, that you know, these kind of  
13 structural measures should really only be there  
14 if you in fact don't have other measures that  
15 get at the outcomes.

16 And so I think you know, the  
17 question of participation and had drive  
18 participation and how it relates to the use of  
19 an endorsed measure, I think is something I  
20 would ask you to consider, fully noting I'll  
21 point out last, it just seems like there's one

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1 of these a week, and there is.

2 But just a few weeks ago, the  
3 committee, the safety committee, in fact did  
4 not put forward the endorsement of the  
5 radiology, radiation and safety measure.  
6 Feeling like it was time to move forward to get  
7 to measures of radiation safety rather than  
8 measures of participation and registry. I get  
9 that right around radiation safety.

10 CO-CHAIR FLEISHER: So, Robert?

11 MEMBER CIMA: I just wanted to ask  
12 and get a clarification from the developer  
13 because we're grouping these. I know on the  
14 pediatric one, there isn't a national one. But  
15 in the other ones you define national, regional  
16 and local participation.

17 So how do we define that? I mean  
18 how is that distinguished then if you know, a  
19 new -- if the State of New Hampshire decided to  
20 form their own regional -- I just wanted to --  
21 I know in the pediatric one such a thing doesn't

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1       exist, but how do you define these? And so it  
2       doesn't necessary need to be STS then, it could  
3       be some other regional thing.

4               DR. JACOBS: I think it's designed  
5       by the creation of a multi-institutional  
6       registry with broad enough participation that  
7       the registry would be useful for benchmarking  
8       performance improvement, quality improvement  
9       and public reporting.

10              So it doesn't have to be the STS  
11       database that can provide those functions.  
12       But a certain number of institutions would be  
13       necessary in order to be able to provide those  
14       functions. I don't think there's any standard  
15       definition of what that number is. I think  
16       it's probably a little like pornography, you  
17       know it when you see it.

18              MEMBER CIMA: And how about for  
19       specifications of a measure? We need to know  
20       it.

21              DR. JACOBS: But I don't think --

1       that's a random number. I don't think anybody  
2       could say that a multi-institutional database  
3       is useful when it has 10 or 11 or 14  
4       participants. I think that number doesn't  
5       exist. There would be no database to come up  
6       with it.

7               I understand that we need numbers to  
8       endorse things here whenever they exist. But  
9       the best you can do there is have a panel of  
10      experts look at the database and say does this  
11      database really meet the requirements of being  
12      able to perform these functions.

13              CO-CHAIR FLEISHER:     Thank you.  
14      We're not going to vote today and we're probably  
15      going to have to take these separately on the  
16      call. Rick?

17              MEMBER DUTTON:       Two quick  
18      questions. The missing practices in the adult  
19      registry are systematically missing in the  
20      DoD/VA. Do they have a registry?

21              DR. JACOBS:    The VA does have an

1 adult cardiac registry. Dr. Grover could  
2 speak to that because he was one of the founders  
3 and I mean he kind of created that ball game.  
4 So yes, they do have their own.

5 MEMBER DUTTON: And is the Northern  
6 New England Collaborative still functioning?  
7 And is that another competing registry? Or not  
8 competing, but collaborative registry?

9 DR. JACOBS: No, I honestly don't  
10 know the level of function of the Northern New  
11 England Registry right now myself. I couldn't  
12 comment on that. Maybe Dr. Grover or Dr.  
13 Shahian could.

14 MEMBER DUTTON: And then the second  
15 question, how many of these registries of these  
16 three have been nominated as QCDRs?

17 DR. JACOBS: The adult cardiac one.

18 CO-CHAIR FLEISHER: A.J.?

19 MEMBER YATES: Yes, and to follow  
20 up that question, and I had brought this up in  
21 the workgroup. The repository of this data is

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1 going to be STS. I mean you're going to be the  
2 the steward of this measure.

3 So the question is can you leave  
4 room for the reporting by VA hospitals that they  
5 are participating in the VA registry. Do you  
6 leave room for perhaps hospital systems that  
7 choose not to pay the money to belong to STS,  
8 but run their own registry, such as the Kaiser  
9 system or something to that effect? And I have  
10 a follow up question.

11 DR. JACOBS: Well I think the VA  
12 database would meet this requirement.

13 MEMBER YATES: But will you leave  
14 room for them to report to STS so that if you're  
15 the steward of this -- who keeps score, is the  
16 question.

17 DR. JACOBS: I don't understand  
18 what you mean by leave room.

19 MEMBER YATES: Because when we  
20 talked about this on the conference call, the  
21 -- being involved with the STS registry is

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1 adjudged by the fact that people send in their  
2 scores. That's how you know people are  
3 involved.

4 DR. JACOBS: Right.

5 MEMBER YATES: But there isn't some  
6 questionnaire that goes out to the universe of  
7 hospitals doing cardiac, thoracic and  
8 pediatric surgery -- cardiac surgery, asking  
9 them if they belong to a registry.

10 DR. JACOBS: Correct. I don't  
11 think that that exists. I think that in --

12 MEMBER YATES: It's self defining  
13 that it has to be your registry if it's only  
14 recorded by them putting it out.

15 DR. JACOBS: No, I don't think so.  
16 I think that the VA registry could similarly say  
17 that this is a list of hospitals that  
18 participate in our registry and meet this  
19 requirement should they choose to do so. And  
20 that would be --

21 MEMBER YATES: But they could be

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1 self-defining then is what I'm saying.

2 DR. JACOBS: Sure.

3 CO-CHAIR FLEISHER: Rick did you  
4 have a comment that you think can help clarify?

5 MEMBER DUTTON: Yes, specific to  
6 that, Dr. Yates, so the score would be kept by  
7 the user of the measure. So CMS would  
8 determine that DoD registry meets the  
9 requirements of this measure.

10 MEMBER YATES: That would satisfy  
11 me. Because the way it's written --

12 DR. JACOBS: That's a good answer.

13 MEMBER YATES: The way it's  
14 written, it's written as your group seeing that  
15 people have put in the data, then they get a  
16 score saying that they participate.

17 CO-CHAIR FLEISHER: Thanks.  
18 Larry.

19 MEMBER MOSS: So I understand that  
20 we're looking at all three of these measures  
21 together. I just want to make the comment that

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1 I think the argument is most compelling on  
2 congenital heart surgery because there are not  
3 readily available outcome measures.

4 And the participation outcome link  
5 is very, very strong. And so we have the most  
6 at stake to not authorize that one.

7 DR. JACOBS: I would agree.

8 CO-CHAIR FLEISHER: Great. We'll  
9 discuss that on the call. John?

10 MEMBER HANDY: So I wanted to make  
11 a point about the general thoracic database  
12 which I had quoted some literature on  
13 yesterday, saying that it's actually not very  
14 representative of the national experience, and  
15 has far superior outcomes to the national  
16 experience. So it is linked to better  
17 outcomes.

18 DR. JACOBS: Yes, you got that.

19 CO-CHAIR GUNNAR: Yes, for that  
20 reason I wasn't going to push against including  
21 them three together. I think you have to look

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1 at the thoracic one separately, it's a  
2 different animal.

3 As far as the VA's concerned, I mean  
4 we were in fact, we were -- Dr. Grover can attest  
5 to the fact that we began before the STS, but  
6 they look remarkably similar somehow. And you  
7 can say the same about ACS and NSQIP.

8 So I think Dr. Yates' point is well  
9 taken. Is this is about having a clinical  
10 database with certain features, the way I look  
11 at it, that answers certain questions and  
12 collects certain data.

13 And from CMS' point of view, which  
14 is one of the things in a time frame, which is  
15 the other part of the discussion I would like  
16 to have at some point, you know, what that time  
17 frame would be, because in relationship to  
18 quality improvement, the closer you can get the  
19 time frame from the events that are occurring  
20 at the facility, the tighter-knit the afferent  
21 and efferent loop of this are.

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1                   So those are my points.

2                   CO-CHAIR FLEISHER:     Great.     I  
3     think -- thank you for allowing us to defer the  
4     vote, because I think it would take a lot more  
5     discussion.   But I think you've at least heard  
6     some of the concerns and perhaps the two  
7     individuals who are reviewing this, or three  
8     individuals that reviewed this, if you have  
9     other questions based upon this, or who can help  
10    define that even better on the call, would that  
11    be acceptable that the reviewers continue a  
12    dialog with you?

13                  DR. JACOBS:     Absolutely.     Yes,  
14    feel free to email me.   Jeffjacobs at msn.com.  
15    Send me an email and we can set up a phone  
16    conference and involve Dave Shahian if we  
17    wanted to.   Or we can have an email dialog or  
18    whatever's easier.

19                  MS. WINKLER:   You have a conference  
20    call set up as a post-call for this committee  
21    to meet on June 9 from 2:00 to 4:00 Eastern.   So

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1 we'll see what we can do. Although that  
2 agenda's starting to look kind of packed.

3 MEMBER JARRETT: It would be good  
4 though if you could combine it with that  
5 conference call. If not, we'll do it  
6 separately.

7 CO-CHAIR FLEISHER: The call is  
8 June 10, which is Tuesday. Okay. Why don't we  
9 go back to the -- thank you.

10 DR. JACOBS: Yes, I just wanted to  
11 thank everybody in this room. This has been an  
12 enjoyable experience. The work being done by  
13 every -- a surprisingly, I would say a  
14 surprisingly enjoyable experience.

15 I think that the work that your  
16 group is doing is commendable. It's been  
17 educational for me. And it's been a little  
18 intellectually challenging, but I've enjoyed  
19 it. And thank you. Thank you very much for  
20 all your work.

21 CO-CHAIR FLEISHER: Thank you.

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1       Where were we?

2                   MS. DEITZ:   Back at home health.

3                   DR. BURSTIN:  Are you all with us  
4       Debra?

5                   Ms. Deitz:   Yes.

6                   DR. BURSTIN:  Wonderful.  Okay, we  
7       will relaunch.

8                   MEMBER MARKMAN:  So then the issue  
9       is -- so I mean, this is an important measure  
10      because it entails 11,000 plus agencies, and  
11      millions of wounds.  So then the question is,  
12      you know, I would submit to you that there is  
13      a relationship.  I don't know about the  
14      numerator and the denominator, but I would  
15      submit to the committee --

16                  CO-CHAIR FLEISHER:  Well the first  
17      question is evidence.  Is there anything  
18      further one evidence that you think, that's  
19      specifications, the numerator.  That's an  
20      outcome.

21                  MEMBER MARKMAN:  Yes.

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1 CO-CHAIR FLEISHER: Is there a  
2 sufficient evidence? It's an outcome measure.

3 MEMBER MARKMAN: I'm going to say  
4 yes.

5 CO-CHAIR FLEISHER: Okay, so let's  
6 vote.

7 MR. SANCHEZ: Voting will now begin  
8 for 1A, evidence. 1 is yes, 2 is no. Timer  
9 starts now.

10 We have 19 for yes, three for no.

11 CO-CHAIR FLEISHER: Next. We are  
12 in gap again.

13 MEMBER MARKMAN: It looks like in  
14 terms of the reporting, over the last three  
15 years that have been reported, that there's  
16 actually been a decrease in the number of valid  
17 episodes that have been reported.

18 CO-CHAIR FLEISHER: But is there  
19 variability in outcome between sites?

20 MEMBER MARKHAM: I'm going to ask  
21 the developer.

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1 CO-CHAIR FLEISHER: Okay, for  
2 Debra. Debra?

3 MS. DEITZ: Yes.

4 CO-CHAIR FLEISHER: Are you on the  
5 phone?

6 MS. DEITZ: Yes.

7 CO-CHAIR FLEISHER: Is there  
8 variability on the -- between home health  
9 groups and the outcome of this measure, the  
10 results of this measure.

11 MS. DEITZ: Yes, and I'm going to  
12 let, Keziah Cook of Acumen address this.

13 MS. COOK: Sure. Can you guys hear  
14 me?

15 CO-CHAIR FLEISHER: Yes.

16 MS. COOK: Okay. Apologies for  
17 earlier, my line wasn't open. You know I think  
18 probably the easiest way to see the opportunity  
19 for improvement in this measure is to look at  
20 the interquartile range and the inter-decile  
21 range.

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1           So we're basically seeing in the  
2           most recent year of data, the difference  
3           between the 25th percentile and the 75th  
4           percentile is about nine percentage points.  
5           So agencies sort of you know, the best agencies,  
6           nine percent more of their patients improve in  
7           surgical wounds then at the worst agencies.

8           And it's even more extreme if we  
9           compare the 10th percentile to the 90th  
10          percentile. So that difference in the most  
11          recent year is nearly 17 percentage points.

12                   CO-CHAIR FLEISHER:       Comments?  
13          Questions? Let's vote.

14                   MR. SANCHEZ: Voting will now begin  
15          for 1B, performance gap. 1 is high, 2 is  
16          moderate, 3 is low, 4 is insufficient. Timer  
17          starts now.

18                   CO-CHAIR FLEISHER: Are we okay?

19                   MR. SANCHEZ: We have nine for  
20          high, 11 for moderate, zero for low, zero for  
21          insufficient.

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1 CO-CHAIR FLEISHER: Next.  
2 Priority. Does this address an important  
3 issue?

4 MEMBER MARKMAN: Yes.

5 CO-CHAIR FLEISHER: Okay. Any  
6 comments? Questions?

7 MR. SANCHEZ: Voting will begin now  
8 for 1C, high priority. 1 is high, 2 is  
9 moderate, 3 is low, 4 is insufficient. Timer  
10 starts now.

11 You have 13 for high, six for  
12 moderate, one for low, zero for insufficient.

13 CO-CHAIR FLEISHER: Okay. Next,  
14 it's not a composite. Reliability.

15 MEMBER MARKMAN: Now the issue is  
16 the 13 percent improvement of only -- I mean  
17 they're not doing decubitus and they're not  
18 doing chronic diabetic wounds. These are  
19 post-op infections. And they've only seen a 13  
20 percent improvement in the wound. And I would  
21 submit that --

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1 MS. COOK: I'm sorry, this is  
2 Keziah. Can I please clarify. I know this  
3 came up earlier, and we actually have a typo on  
4 our form.

5 CO-CHAIR FLEISHER: Yes, and can  
6 you tell us -- specifications is really the key  
7 issue because we know it's been tested. Go  
8 ahead.

9 MS. COOK: Well, so first just to  
10 clarify that 13 percent number. That sentence  
11 should have read that it's 13 percent of  
12 patients had a surgical wound as a find, and  
13 their surgical wound was capable of  
14 improvement.

15 So it's 13 percent of the patients  
16 are eligible for the measure. And it's not  
17 that only 13 percent improved. It's the 13  
18 percent of home health patients overall are  
19 these post-surgical patients who have a wound  
20 that is able to improve. Many of them have  
21 already fully epithelialized.

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1                   MEMBER PITZEN: This is Collette, I  
2                   just wanted to comment. So the average overall  
3                   performance rate is 89 percent, but probably  
4                   some room for improvement.

5                   But just to clarify, that's on all  
6                   of those 4,000,000 home care visits. 13  
7                   percent of that large population had the  
8                   opportunity to have -- that had a surgical wound  
9                   that needed healing. Right?

10                  MS. COOK: That's not correct.

11                  MEMBER PITZEN: No?

12                  MS. COOK: The population numbers  
13                  are calculated only for those patients who are  
14                  eligible for the measure. So there were about,  
15                  I think about 500,000 patients who were  
16                  eligible for the measure.

17                  MEMBER PITZEN: Correct.

18                  MS. COOK: So that 88 percent rate  
19                  is off of those approximately 500 thousand  
20                  patients. Not off of the 4,000,000 total home  
21                  health population.

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1                   MEMBER MARKMAN:   So in the mix of  
2                   wounds, how many were closed wounds, and how  
3                   many were open wounds, do you know?

4                   CO-CHAIR FLEISHER:   The question  
5                   is to precisely specify how they actually did  
6                   the calculation, and that's the question --  
7                   that's this question of reliability. Do you  
8                   specify precisely?

9                   MS. COOK:   Right.   So the item  
10                  itself actually -- actually Deb would you have  
11                  the item in front of you? I'm still trying to  
12                  get it pulled up.

13                  MS. DEITZ:   Yes.   And the response  
14                  is zero, is that it's newly epithelialized.  
15                  And that would be the one that would not be  
16                  counted at start of care because they would not  
17                  be eligible for improvement.

18                  And then 1 is fully granulating, 2  
19                  is early partial granulation and 3 is not  
20                  healing.

21                  MS. COOK:   And so what the measure

1 actually captures is if those are sort of in  
2 order of severity, so if a patient moves from  
3 having a wound that is not healing, which I  
4 think was number 3, to a number 2, which -- Deb  
5 which one was the number 2?

6 MS. DEITZ: Yes, early partial  
7 granulation.

8 MS. COOK: Okay, so if they move  
9 from not healing to early partial granulation,  
10 that's considered an improvement. Or if they  
11 move from early partial granulation all the way  
12 up to fully epithelialized, that's  
13 improvement.

14 So if they move upwards on a --

15 MS. DEITZ: Or if they no longer are  
16 considered to have a surgical wound at  
17 discharge because it is fully epithelialized.

18 CO-CHAIR FLEISHER: Thank you.  
19 Collette.

20 MEMBER PITZEN: I just wanted to  
21 comment. We talked about this during the

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1       workgroup call. Initially I was a little bit  
2       confused. I thought it was simply a binary  
3       yes/no, did the wound improve? And I thought  
4       maybe that was a bit subjective.

5               But it was clarified that they're  
6       using WOCN guidelines for describing those  
7       wound characteristics. So there is a  
8       standardized process for determining that  
9       improvement.

10              MEMBER MARKMAN: Is there any time  
11       lines that you have incorporated in these wound  
12       healing things? I mean is it -- do you take a  
13       week, or? I mean when you took the episode, do  
14       you define a time element?

15              MS. COOK: So the typical episode  
16       length is just under 60 days. So an episode is  
17       the time period between the start of care and  
18       the patient's discharge. That's typically  
19       about 60 days.

20              Although, you know, there are some  
21       patients who are in home care for longer than

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1       that. But the 60 days is the typical length.

2                   CO-CHAIR FLEISHER: A.J.?

3                   MEMBER YATES: Yes, I'm just going  
4       to point out that we need to look at this from  
5       the perspective of nursing, as opposed to the  
6       perspective of say surgeons. And what we're  
7       looking at is the value given to the patient and  
8       the value given to the payers, that's primarily  
9       CMS in this case, for the intervention of the  
10      home health nurse.

11                   And whether there was observation  
12      performed, which is captured. And whether or  
13      not there was some positive influence by the  
14      nurse being there by keeping the dressing dry,  
15      keeping the patient out of trouble, doing some  
16      local wound care.

17                   And that's going to be a different  
18      level of reliability testing then, it's in a  
19      sense observational, and I think that it's in  
20      effect, a composite of all the things they do.

21                   MEMBER MARKMAN: Yes. They

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1 actually do more than that. I mean you know.

2 MEMBER YATES: Right.

3 MEMBER MARKMAN: I mean yes, it's  
4 not just the wound. They don't just take care  
5 of the wound.

6 MEMBER YATES: Right. But this  
7 one measure of that that I think is reasonably  
8 measured this way.

9 MEMBER MARKMAN: Yes.

10 CO-CHAIR FLEISHER: Larissa?

11 MEMBER TEMPLE: One of my concerns  
12 is when the VNS go out to assess wounds, it's  
13 often a different person who assess the wound  
14 on the various episodes of the visits. And so  
15 I was wondering if there is any data to show the  
16 interobserver agreement?

17 I know that there are objective  
18 criteria, but I've certainly seen myself,  
19 disagreement. And so I'm curious to know if  
20 there are -- if they've ever looked at the  
21 interobserver agreement, and/or if they've

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1       seen a wound get better and then get worse and  
2       then look to see if it was the same assessor.

3               Because I think that's an important  
4       piece of data because as clinicians we get these  
5       reports that wounds are getting better. We  
6       feel a whole lot better when it's the same nurse  
7       versus different ones. And so I think that  
8       that's an important piece to this. And I'm  
9       curious to know this.

10              CO-CHAIR   FLEISHER:       That is  
11       reliability, so can we get a comment from the  
12       developer on that aspect of reliability?

13              MS. COOK:   So it sounds like you're  
14       talking about the item level reliability,  
15       rather than the measure reliability. Deb, I  
16       know the item level reliability was done quite  
17       some time ago, I think in the early 2000's. Do  
18       you happen to recall any of the findings? Or  
19       else we could round them up.

20              MS. DEITZ:   I need to locate the  
21       item level reliability. I know that it was

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1 done. And I know that it was considered to be  
2 acceptable as part of the development of the  
3 OASIS data set. And it was felt to be  
4 sufficiently reliable to be used in the data set  
5 for measure -- quality measurement and payment.

6 CO-CHAIR FLEISHER: Kelsey?

7 MEMBER McCARTY: My question was  
8 kind of similar, but I guess on the opposite  
9 side. If you do have continuity of care, it's  
10 the same person, is that person then reporting  
11 on their own ability to heal the wound, and do  
12 they have to acknowledge if that's not going --  
13 like what's the reliability there of getting,  
14 I mean is the person there grading themselves  
15 I guess is what I'm asking?

16 MS. DEITZ: And I would say that the  
17 person is using very standardized criteria, the  
18 WOCN criteria to assess the wound at the time  
19 that the patient is discharged.

20 CO-CHAIR FLEISHER: Still, but you  
21 don't have any reliability testing of that,

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1 correct?

2 MS. DEITZ: We have reliability.  
3 This item was -- did undergo reliability  
4 testing, yes.

5 CO-CHAIR FLEISHER: So yes.  
6 Collette?

7 MEMBER PITZEN: Just maybe to help  
8 clarify. I'm assuming that you're capturing  
9 and storing that initial observation, and what  
10 that wound status was and then your discharge,  
11 that it's like two separate fields that you're  
12 comparing, would that be a correct assessment?

13 MS. DEITZ: Yes.

14 MEMBER KO: Would this type of  
15 ongoing measure require an audit rather than a  
16 reliability testing ten years ago, just like  
17 you know the 10 percent STS audit making sure  
18 that it's continues to be high quality?

19 MEMBER DUTTON: I'll add a thought  
20 for the developers. This is 2014, we have  
21 flying cars. You can take a picture of the

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1 wound at each visit and actually compare them  
2 independently then, or send them to the  
3 physician to compare.

4 MEMBER MARKMAN: I definitely  
5 agree. I -- if that, you know, I mean we're  
6 taking the whole subjective and making it an  
7 objective, and many wound care clinics do that,  
8 it's standard of care.

9 So that in terms of the reliability,  
10 a picture's worth a thousand words. And it's  
11 something that then can be communicated back to  
12 the physicians when the -- because these  
13 patients should be homebound. And if they  
14 can't see the doctor, then.

15 CO-CHAIR FLEISHER: Yes, Amy?

16 MEMBER MOYER: Isn't this in  
17 essence the chart that they're taking the data  
18 from? Isn't it the documentation of the care  
19 giver? I mean it sounds kind of like it's  
20 almost auditing the chart in some of the other  
21 measures we've looked at are I mean, I'm not

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1 familiar with OASIS, but.

2 DR. BURSTIN: It's basically a  
3 database they're entering the information  
4 into. But again, they are using standardized  
5 approaches to do it. And again, I think that's  
6 similar things could be said about many things.  
7 We enter our own data in about our own care, so.

8 CO-CHAIR FLEISHER: Collette?

9 MEMBER PITZEN: Just a  
10 recommendation. Maybe you would want to  
11 repeat that kind of on data element reliability  
12 studies in the future submissions, but.

13 CO-CHAIR FLEISHER: Any other  
14 comments, Dr. Grover?

15 MEMBER GROVER: I think the picture  
16 aspect not only of reliability, but I would hope  
17 that if you don't, I would hope you audit these.  
18 I mean just a sample audits and then you would  
19 have a before and after picture to make it  
20 objective. And make sure that the observer or  
21 the treater that's taking care of this wound is

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1 reporting it accurately.

2 CO-CHAIR GUNNAR: Okay. We'll go  
3 ahead and vote.

4 MR. SANCHEZ: Voting will now --

5 CO-CHAIR GUNNAR: Do we have --  
6 we're close to -- do we have 18? We do not have  
7 our -- let's go reliability. Let's vote, I  
8 think we have 18, so go ahead.

9 MR. SANCHEZ: Voting will now begin  
10 for 2A, reliability. 1 is for high, 2 for  
11 moderate, 3 for low, 4 for insufficient. Timer  
12 starts now.

13 We have one for high, 11 for  
14 moderate, six for low, zero for insufficient.

15 CO-CHAIR GUNNAR: We have quorum  
16 for the remainder. So validity.

17 MEMBER MARKMAN: The last comments  
18 in terms of reliability and validity is that  
19 possibly the subjective aspect, but I think  
20 that from the standardization of the OASIS,  
21 that it's valid.

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1 MS. WINKLER: Plus I think there's  
2 significant information -- testing information  
3 submitted in the submission that should cover  
4 it.

5 MEMBER MARKMAN: Yes.

6 CO-CHAIR GUNNAR: All right, any  
7 other comments? Let's vote.

8 MR. SANCHEZ: Voting will now begin  
9 for 2B, validity. 1 is high, 2 moderate, 3 low,  
10 4 insufficient. Timer starts now.

11 We have one for high, 12 for  
12 moderate, one for low, zero for insufficient.

13 CO-CHAIR GUNNAR: Feasibility?

14 MEMBER MARKMAN: Feasibility, it's  
15 electronic, it's mandated, so yes.

16 CO-CHAIR GUNNAR: Any other  
17 comments? Let's vote.

18 MR. SANCHEZ: Voting will now begin  
19 for criteria 3, feasibility. 1 is high, 2  
20 moderate, 3 is low, 4 is insufficient. Timer  
21 starts now.

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1                   Waiting on one more vote, please  
2                   resubmit.

3                   CO-CHAIR GUNNAR:    Please submit  
4                   again.   Okay, we've got it.

5                   MR. SANCHEZ:   We have 13 high, five  
6                   moderate, zero low, zero insufficient.

7                   CO-CHAIR GUNNAR:   Usability and  
8                   use.

9                   MEMBER MARKMAN:   Absolutely.

10                  CO-CHAIR GUNNAR:   It's been in  
11                  place, doing the job.   Go ahead, no other  
12                  discussion, we'll vote.

13                  MR. SANCHEZ:   Voting will now begin  
14                  for criteria 4, usability and use.   1 is high,  
15                  2 is moderate, 3 is low, 4 is insufficient  
16                  information.   Timer starts now.

17                  CO-CHAIR GUNNAR:   We need one more.  
18                  Everybody up again.   And vote.   There we go,  
19                  got it.

20                  MR.    SANCHEZ:       10   high,   eight  
21                  moderate,   zero   low,   zero   insufficient

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1 information.

2 CO-CHAIR GUNNAR: So overall  
3 suitability for endorsement. Any other  
4 comments, discussion? Hearing none, time to  
5 vote.

6 MR. SANCHEZ: Voting will now begin  
7 for overall suitability for endorsement. 1 is  
8 yes, 2 is no. The timer starts now.

9 CO-CHAIR GUNNAR: Everyone please  
10 vote. There we go.

11 MR. SANCHEZ: We have 17 yes. One  
12 no.

13 DR. BURSTIN: Thank you for  
14 everybody's patience on the phone. We  
15 appreciate it, so it's passed.

16 MS. DEITZ: Thank you.

17 MS. COOK: Thank you very much.

18 MS. WINKLER: Yes, operator, is  
19 anybody on the line for public comment?  
20 Anybody in the room want to make a comment?

21 OPERATOR: Okay, it is time to make

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1 a public comment. Please press star then the  
2 number 1. There are no public comments at this  
3 time.

4 MS. WINKLER: Okay. Next steps  
5 briefly before you all run to catch your planes,  
6 trains and whatevers. Thank you all very much  
7 for your time. We realize this is very  
8 intense.

9 We do have a few left over  
10 stragglers that we will deal with. As I  
11 mentioned there was a -- there is a conference  
12 call scheduled, it should be on your calendars.  
13 Somehow I -- it's on mine too, but I somehow  
14 can't read calendars or something.

15 But we will be sending out a  
16 discussion agenda ahead of time. But we do  
17 have, we'll talk with the folks from ASA about  
18 the tabled measure 269. Also we'll want to do  
19 the three database measures. We need to think  
20 about how we want to do those efficiently. The  
21 call is only two hours.

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1 Plus we need to look at related and  
2 competing measures. Given the results of your  
3 evaluation on the antibiotic prophylaxis  
4 measures, there might not be a whole lot there.  
5 But certainly we do want to look at the two CABG  
6 mortality measures side by side and have the  
7 conversation about competing measures.

8 We also want to take a look at the  
9 entire results of what you've done. And you  
10 know, see if it all makes sense. Have you, you  
11 know, do some last comments before we start  
12 wrapping it up and start writing up a report  
13 that reflects this that will go out for public  
14 comment.

15 So those are our next steps. We are  
16 anticipating, or was scheduled to go out for  
17 public comment like July 3. So this will be  
18 quickly moving through the month of June.

19 And so if you've got anybody you  
20 want to share this with, they should be looking  
21 for it to be available for public comment in

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1 July. So that's kind of the time frame going  
2 forward.

3 This committee will regroup by  
4 conference call in August, to talk about those  
5 comments that we receive. And perhaps act on  
6 them depending on what the comments may  
7 indicate.

8 So we're going to be moving briskly  
9 through the process steps through the summer.  
10 So Bill, any questions from you all? Andrew  
11 anything I've forgotten? Any comments from  
12 anybody?

13 I know I've had sidebar suggestions  
14 from all sorts of folks on, you know, process  
15 improvements, and suggestions and all sorts of  
16 things. We're open ears. So feel free to keep  
17 those suggestions coming, and don't be  
18 surprised if we call you back and say okay  
19 you're on, we really want to hear the details.

20 So, any last --

21 CO-CHAIR FLEISHER: Reva?

1 MS. WINKLER: Yes?

2 CO-CHAIR FLEISHER: Yes, we have  
3 Lee on the phone now, and I'm particularly --

4 MS. WINKLER: Hi Lee.

5 CO-CHAIR FLEISHER: How people --  
6 hi -- I'm particularly interested in how people  
7 think the pre-meeting conference calls could be  
8 improved and utilized in a different way.  
9 Because I'm not sure they were always as  
10 effective.

11 MS. WINKLER: Okay. We'll  
12 certainly see if we can figure out the best way  
13 to get your feedback and suggestions for how we  
14 can make this work. Since we're going to be  
15 working together going forward for the next  
16 couple of years.

17 Also, one thing we didn't do, we  
18 will need to do, is somehow randomly get you to  
19 two year or three year terms. We did it? Oh  
20 good, I missed it. Okay.

21 You know if you're staying for two

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1 or three years. So renewable for another term  
2 if you so desire. So we really want to make  
3 this easy for everybody.

4 Dr. Yates?

5 MEMBER YATES: Yes, I was just  
6 going to make a comment to the question on the  
7 phone. And I had already said this to you Reva,  
8 but I think that if there could be an emphasis  
9 on the conference calls, the workgroup calls to  
10 ask -- to determine the level of evidence, and  
11 bring out the level of evidence on the process  
12 measures during the workgroup calls so that  
13 that's better assessed.

14 Because I think some measures  
15 failed today from an inadequate discussion of  
16 the level of evidence. And I think some of the  
17 measures -- I just think we lost a lot of time  
18 debating evidence that was clearly presented  
19 that wasn't discussed well enough to say level  
20 one, level two, level three.

21 MS. WINKLER: But anyway. Thank

1       you all very much. Travel safely.

2                   (Whereupon, the above-entitled  
3 proceeding was concluded at 3:28 p.m.)  
4  
5  
6  
7  
8  
9  
10