TO: Consensus Standards Approval Committee

FR: Reva Winkler, MD, MPH; Alexis Forman, MPH

RE: Maintenance review of NQF-endorsed measures for diabetes population-level measures

DA: December 28, 2010

CSAC ACTION REQUIRED

Four NQF-endorsed measures for assessment of diabetes care at the population level are now presented to the CSAC for decision regarding continued endorsement under the maintenance process in effect in 2009.

2009 MAINTENANCE PROCESS

In May, 2010, the NQF Board of Directors approved a new process that standardized reviews of existing measures in a regular cycle of topic-based measure evaluation. Prior to implementation of the new Endorsement Maintenance Process, NQF had begun reviews for measures under the topic areas of diabetes, mental health, and musculoskeletal. Existing Steering Committees and Technical Advisory Panels (TAPs) from the Patient Outcomes project were used to complete these reviews. The 2009 maintenance process for these measures is described below:

Three-Year Maintenance Reviews

- 1. Email Measure Steward up to 2 months prior to the beginning of the review quarter with a list of measures requiring maintenance review
 - a. Include table with NQF #, Title, Description, Specifications & Endorsement Date
 - b. Include Maintenance Review Form
 - c. Include links to Maintenance webpage for Policies and Criteria
- 2. Measure Steward has 30 calendar days to provide updates
- 3. Measures posted for Public Comment for 30 days
- 4. Maintenance Committee reviews Measures & makes recommendations to CSAC
- 5. CSAC reviews Measures and makes decision regarding continued endorsement

- 6. Update database and formal notification sent to Measure Steward of CSAC decision; Public notification of CSAC decision posted to website
- 7. 30-day Appeals Period

REVIEW OF DIABETES MEASURES

The Diabetes TAP from the Patient Outcomes project reviewed the measures described below. In this process, the TAP was asked to review the information submitted by the developers and determine whether the measures still meet the NQF measure evaluation criteria. NQF staff advised the TAP endorses all types of measures including population-level measures that can be used at the community and state levels, including measures that might be used by accountable care organizations (ACOs) and health systems. These measures include outcome measures and measures of health behaviors for the populations that are being served.

The Diabetes TAP from the Patient Outcomes project reviewed four population-level measures from the Agency for Healthcare Research and Quality (AHRQ). The AHRQ PQIs measure potentially avoidable hospitalizations for ambulatory care-sensitive conditions. The indicators rely on hospital discharge data and are intended to reflect issues of access to high-quality ambulatory care in the system of care. The PQIs encourage healthcare providers to use community-level measures to assess the health of the areas in which they practice and obtain regional health information from where their patients reside. These measures were originally endorsed within the Ambulatory Care project and focused on identification of disparities. These measures provide a regional overview of performance and guide further measurement, particularly stratification for disparities.

The measure developer advised the TAP that they receive positive feedback on these measures from states, Medicaid agencies, and health plans that find them useful.

The summary of the TAP evaluation and recommendations are included in the tables below. The TAP evaluated the measures on all criteria and sub-criteria and recommended all four measures maintain endorsement; two of the measures are to be paired.

0272: Diabetes short-term complications admission rate (PQI 1)

This measure is used to assess the number of admissions for diabetes short-term complications

per 100,000 persons.

Data Source: electronic administrative data/claims

Level of Analysis: population: national, regional/network, state, counties/cities

Measure Developer/Steward: AHRQ

IMPORTANCE TO MEASURE AND REPORT								
	Completely	Partially	Minimally	Not At All	NA			
1a Impact	5		1					
1b Gap	4	1	1					
1c Relation to outcomes	4	2						

Comments: Current performance: 61.51 (overall rate); 59.72 (risk-adjusted rate). The admission rate is a useful parameter to have to determine how well diabetes patients are managing their diabetes as well as how often health care systems are being used. Important to determine for future cost implications. Indicates a possible reflection of provider-care and self-care practices. Admissions may not be diabetes related. Well validated importance of hospitalizations in this population for acute complications. The problem with this measure it is really a dysglycemia measure, since it does not capture admissions for cardiovascular or renal conditions associated with diabetes, but it is an important one that should be measured. Other short-term adverse complications that should be studied in other measures in the future.

SCIENTIFIC ACCEPTABILITY

	Completely	Partially	Minimally	Not At All	NA				
2a Specifications	3	2	1						
2b Reliability	3	2	1						
2c Validity	3	2	1						
2d Exclusions	1	2							
2e Risk adjustment	1	2		1					
2f Meaningful differences	3	2	1						
2g Comparability	4	1		1					
2h Disparities	4	1	1						
Comments: CMS-database	and coding error	s occur so th	nere is possibi	lity for error					

Comments: CMS-database and coding errors occur so there is possibility for error. Measurement parameters may vary but information is still useful. Poor attribution. Well established definitions, proven track record. Reliance on claims data/ICD 9 codes always potentially confounded. This overlaps with measure 0638 and problems with coding- that is, some providers will code the same problem in two very different ways diminishes the specificity of the data noted here.

USABILITY						
	Completely	Partially	Minimally	Not At All	NA	
3a Understandable	5		1			
3b Harmonization	5			1		

3c Added value	5		1		
Comments: Current use: P	ublicly reported t	by a variety of	f states. Provi	des useful	1 1
information for providers ar	nd consumers to	determine fut	ture actions w	ithin specific	
population groups. If this is				•	s that
measures 0272 and 0638 a	•			•	
accepted.				ipiementeu a	i i d
FEASIBILITY					
	Completely	Partially	Minimally	Not At All	NA
4a Data as by-product of	2	3	1		
care					
4b Electronic	4	1	1		
4c Exclusions	4	2	1		
4d Inaccuracies	2	3	1		
4e Implementation	2	3			
outcome but is related to an	n outcome. There	rictly speakin e are other ur	g the outcome nrelated issue	e is not a pations, such as the	e
have difficulty accessing the outcome but is related to an density of hospital beds in t elements are available elect	n outcome. There the region and tra	rictly speakin e are other ur	g the outcome nrelated issue	e is not a pations, such as the	ent e
outcome but is related to an density of hospital beds in t elements are available elect	n outcome. There the region and tra stronically.	rictly speakin e are other ur ansportation t	g the outcome nrelated issue	e is not a pations, such as the	ent e
outcome but is related to an density of hospital beds in t elements are available elec RECOMMENDATION	n outcome. There the region and tra ctronically.	rictly speakin e are other ur ansportation t	g the outcome nrelated issue	e is not a pations, such as the	ent e
outcome but is related to an density of hospital beds in t elements are available elect RECOMMENDATION Recommendation for	n outcome. There the region and tra stronically.	rictly speakin e are other ur ansportation t	g the outcome nrelated issue	e is not a pations, such as the	ent e
outcome but is related to an density of hospital beds in t elements are available elec RECOMMENDATION Recommendation for continued endorsement	n outcome. There the region and tra ctronically.	rictly speakin e are other ur ansportation t	g the outcome nrelated issue	e is not a pations, such as the	ent e
outcome but is related to an density of hospital beds in t elements are available elec RECOMMENDATION Recommendation for continued endorsement and pair with measure	n outcome. There the region and tra ctronically.	rictly speakin e are other ur ansportation t	g the outcome nrelated issue	e is not a pations, such as the	ent e
outcome but is related to an density of hospital beds in t elements are available elect RECOMMENDATION Recommendation for continued endorsement and pair with measure 0638	n outcome. There the region and tra stronically. Yes 5	rictly speakin e are other ur ansportation t No 1	g the outcome nrelated issue that may affec	e is not a pations, such as the structure of the number	ent e s. Data
outcome but is related to an density of hospital beds in t elements are available elec RECOMMENDATION Recommendation for continued endorsement and pair with measure 0638 Comments: Attribution prob	n outcome. There the region and tra- stronically. Yes 5 5	rictly speakin e are other ur ansportation t No 1 low numbers	g the outcome nrelated issue that may affec	e is not a patie s, such as the t the number	ent e s. Data
outcome but is related to an density of hospital beds in t elements are available elec RECOMMENDATION Recommendation for continued endorsement and pair with measure 0638 Comments: Attribution prot and has implications for pra	n outcome. There the region and tra- stronically. Yes 5 5 olems, case mix, actice. It is impor	rictly speakin e are other ur ansportation t No 1 low numbers tant informati	g the outcome nrelated issue that may affect Overall infor on to assist in	e is not a patie s, such as the t the number mation is valu developing p	ent e s. Data
outcome but is related to an density of hospital beds in t elements are available elect RECOMMENDATION Recommendation for continued endorsement and pair with measure 0638 Comments: Attribution prot and has implications for pra The TAP recommended tha	n outcome. There the region and tra- stronically. Yes 5 5 olems, case mix, actice. It is impor at this measure b	rictly speakin e are other ur ansportation t No 1 low numbers tant informati pe paired with	g the outcome nrelated issue that may affect Overall infor on to assist in measure #06	e is not a patie s, such as the t the number mation is valu developing p 338. The two	ent e s. Data uable plans.
outcome but is related to an density of hospital beds in t elements are available elec RECOMMENDATION Recommendation for continued endorsement and pair with measure 0638 Comments: Attribution prot and has implications for pra The TAP recommended that measures are mutually exc	n outcome. There the region and tra- stronically. Yes 5 5 olems, case mix, actice. It is impor at this measure b lusive. The deve	rictly speakin e are other ur ansportation to No 1 low numbers tant information pe paired with elopers note to	g the outcome nrelated issue that may affect . Overall inform on to assist in measure #06 .hat in the earl	e is not a patie s, such as the t the number mation is valu developing p 538. The two y years of rep	ent e s. Data uable plans.
outcome but is related to an density of hospital beds in t elements are available elect RECOMMENDATION Recommendation for continued endorsement and pair with measure 0638 Comments: Attribution prot and has implications for pra The TAP recommended that measures are mutually exc on these measures more pro-	n outcome. There the region and tra- stronically. Yes 5 blems, case mix, actice. It is impor at this measure to lusive. The deve atients were cap	rictly speakin e are other ur ansportation to No 1 low numbers tant information pe paired with elopers note to tured in meas	g the outcome nrelated issue that may affect . Overall inform on to assist in measure #06 that in the earl sure 0638, how	e is not a patie s, such as the t the number mation is valu developing p 338. The two y years of rep wever, in rece	ent e s. Data uable olans. porting ent
outcome but is related to an density of hospital beds in t elements are available elec RECOMMENDATION Recommendation for continued endorsement and pair with measure 0638 Comments: Attribution prot and has implications for pra The TAP recommended that measures are mutually exc	n outcome. There the region and tra- stronically. Yes 5 olems, case mix, actice. It is impor at this measure to lusive. The deve atients were cap red where 0272 i	rictly speakin e are other ur ansportation to No 1 low numbers tant informati be paired with elopers note to tured in meas s more preva	g the outcome nrelated issue that may affect . Overall infor on to assist in measure #06 that in the earl sure 0638, how lent. This like	e is not a patie s, such as the t the number mation is valu developing p 338. The two y years of rep wever, in rece	ent e s. Data uable olans. porting ent

0638: Uncontrolled diabetes admission rate (PQI 14)

This measure is used to assess the number of admissions for uncontrolled diabetes per 100,000 persons.

persons.

Data Source: electronic administrative data/claims

Level of Analysis: population: national, regional/network, state, counties/cities

Measure Developer/Steward: AHRQ

IMPORTANCE TO MEASU	RE AND REPORT					
	Completely	Partially	Minimally	Not At All	NA	
1a Impact	4	1	1			
1b Gap	3	2	1			
1c Relation to outcomes	4	1	1			
Comments: Current perform	 nance: 23.02 (over	l rall rate); 22.	46 (risk-adjus	ted rate). Th	is shou	uld
be strongly endorsed becau	•		· ·	,		
accountability and allows us			•	•		
practices. Relatively rare in	•	•				
poor self-care practices, not	• •			•		
	•	•	•			
paired with the measure 02 ⁻ and both are key in evaluati		•	•	veen the mea	asures	
SCIENTIFIC ACCEPTABILI						
SCIENTIFIC ACCEPTABILI		Partially	Minimally	Not At All	NA	
2a Specifications	Completely 4	Partially 1	1	INULALAI	INA	
-	-		1			
2b Reliability	3	3				
2c Validity	4	2				
2d Exclusions	4	2				
2e Risk adjustment	4	2				
2f Meaningful differences	3	2		1		
2g Comparability	4	2				
2h Disparities	4	2				
Comments: Main problem is						
dependent on the health sys						ng
and determining trends in co						
Weaknesses: requires acce		•	•		tain	
patient groups such that "co						
income/insurance. Varying				•		
is dependence on ICD-9 co	•				•	
Again, the weakness is that						272
but there are patients that a		272, which s	should be cou	inted, and th	IS	
measure is useful for those	patients.					
USABILITY			NA: - 11			
	Completely	Partially	Minimally	Not At All	NA	
3a Understandable	3	2	1			
3b Harmonization	4	1	1		ļ	
3c Added value	4	1	1	l	<u> </u>	Ļ
Comments: Current use: Pu		-	•		-	
differences because numbe						ıd
admissions. Strength: usefu						
Aligns with other diabetes u						g
undue negative reflection or	n providers in cert	ain geograph	nic or poorer o	communities.		
FEASIBILITY					F	
	Completely	Partially	Minimally	Not At All	NA	4
4a Data as by-product of	5	1				
care						1

					1	
4b Electronic	4	2				
4c Exclusions	3	3				
4d Inaccuracies	4	2				
4e Implementation	5	1				
Comments: May be a seco	ndary category of	admission—	not necessari	ly primary ac	dmissio	n
diagnosis.						
RECOMMENDATION						
	Yes	No				
Recommendation for	5	1				
continued endorsement						
and pair with measure						
0272						
Comments: Too uncommor	n in type 2. Overal	I has merit to	o determine tre	ends in care	for cert	tain
population groups. Despite	weakness in defir	nition, this is a	an important a	area of patie	nt	
morbidity. Unclear why this						
measure with 0272, this wo						
,						

0274: Diabetes long-term complications admission rate (PQI 3)

This measure is used to assess the number of admissions for diabetes long-term complications

per 100,000 persons.

Data Source: electronic administrative data/claims

Level of Analysis: population: national, regional/network, state, counties/cities

Measure Developer/Steward: AHRQ

IMPORTANCE TO MEASURE AND REPORT									
	Completely	Partially	Minimally	Not At All	NA				
1a Impact	5		1						
1b Gap	5	1	1						
1c Relation to outcomes	5		1						

Comments: Current performance: 128.21 (overall rate); 123.66 (risk-adjusted rate). This measures teamwork, patient empowerment, and outpatient service. Attribution to prior care, maybe ok as a public health measure applied to the VA or a state. Useful in such that coding and retrospective review is accurate; always at risk for error. This type of information is much needed and useful to develop plans for health care facilities and health care providers. This is again a hospital admission measure, related to the patient outcomes, but not entirely. Local admission practices affect results.

SCIENTIFIC ACCEPTABILITY									
	Completely	Partially	Minimally	Not At All	NA				
2a Specifications	3	2	1						
2b Reliability	2	3	1						
2c Validity	2	3							
2d Exclusions	3	2							

2e Risk adjustment	3	2		1		Ι
2f Meaningful differences	3	2	1	•		-
2g Comparability	2	3	1			
2h Disparities	3	2	1			
Comments: This is well docu	umented as this h	as been an o	ongoing meas	ure. Quality	of data	is
subject to reviewer interpreta						
care. The strengths is it relie	s on data that is	unequivocal,	the weaknes	s is the inte	rpretatio	n
is complex.						
USABILITY		•	•			
	Completely	Partially	Minimally	Not At All	NA	
3a Understandable	4	1	1			
3b Harmonization	4	1	1			
3c Added value	5		1			
Comments: Current use: Pu	blicly reported by	a variety of	states. The va	alue of this r	neasure	is
FEASIBILITY						
	Completely	Partially	Minimally	Not At All	NA	Τ
4a Data as by-product of care	5	1				-
4b Electronic	3	3				1
4c Exclusions	2	4				1
4d Inaccuracies	1	4	1			1
4e Implementation	2	4				1
Comments: Long term hospi proactively planned procedu reviewer knowledge base. In difficult to compare one setti RECOMMENDATION	re. This can composition formation is usef	plicate the in	terpretation.	Strengths ar	e limited	
	Yes	No				
Recommendation for	5	1				
continued endorsement						
Comments: This measure w						1
complications that may justif initiatives. Very important da	5	•	Q		policy	

0285: Rate of lower-extremity amputation among patients with diabetes (PQI 16)

This measure is used to assess the number of lower-extremity amputations among patients with

diabetes per 100,000 persons.

Data Source: electronic administrative data/claims

Level of Analysis: population: national, regional/network, state, counties/cities

Measure Developer/Steward: AHRQ

IMPORTANCE TO MEASU	RE AND REPOR				
	Completely	Partially	Minimally	Not At All	NA
1a Impact	6				
1b Gap	6				
1c Relation to outcomes	6				
	U				
Comments: Results of years	s and years of ca	re, so attribu	tion problems	. Good meas	ure—
specific outcome that can b					
diabetes. Very useful inform					
disease progression.			·		U
SCIENTIFIC ACCEPTABIL	ITY				
	Completely	Partially	Minimally	Not At All	NA
2a Specifications	5	1			
2b Reliability	5	1			
2c Validity	5	1			
2d Exclusions	5	2			
2e Risk adjustment	3	3			
2f Meaningful differences	3	3			
2g Comparability	4	3			
2h Disparities	5	1			
Comments: It enables the u	-		lv manageme	ent and lifesty	le change
(natient empowerment) Sa		ο αρτροτ ητοι		i liar disease	
(patient empowerment). Sa					
our best efforts, the disease	has advanced. A	Iso, atheros	clerotic progre	ession is a fu	nction of
our best efforts, the disease many factors that we are so	has advanced. A metimes limited in	lso, atheros	clerotic progre	ession is a fu are of quality	nction of for a
our best efforts, the disease many factors that we are so health system or a state or	has advanced. A metimes limited in federal, not good	lso, atheros n controlling at doctor lev	clerotic progre Good measuel. Strengths:	ession is a fu ire of quality good outcon	nction of for a ne
our best efforts, the disease many factors that we are so health system or a state or measure, specific and gene	e has advanced. A metimes limited in federal, not good rates good usable	Iso, atheros n controlling at doctor lev e data. Weal	clerotic progre Good measuel. Strengths: Goesses: Not	ession is a fu ire of quality good outcon sure that prov	nction of for a ne <i>r</i> iders can
our best efforts, the disease many factors that we are so health system or a state or measure, specific and gene reduce occurrence with just	has advanced. A metimes limited in federal, not good rates good usable "improvements in	Also, atheros n controlling at doctor lev e data. Weal n care." The	clerotic progre Good measuel. Strengths: chesses: Not strengths: best provider	ession is a fu ire of quality good outcon sure that prov may have hig	nction of for a ne viders can gh rate of
our best efforts, the disease many factors that we are so health system or a state or measure, specific and gene reduce occurrence with just amputations; not always a r	e has advanced. A metimes limited in federal, not good rates good usable "improvements in eflection of poor of	Also, atheros n controlling at doctor lev e data. Weal n care." The care. There a	clerotic progre Good measuel. Strengths: chesses: Not strengths best provider are problems i	ession is a fu ire of quality good outcon sure that prov may have hig n interpreting	nction of for a ne viders can gh rate of g this data,
our best efforts, the disease many factors that we are so health system or a state or measure, specific and gene reduce occurrence with just amputations; not always a r such as whether an amputa	e has advanced. A metimes limited in federal, not good rates good usable "improvements in eflection of poor o tion takes place r	Also, atheros n controlling at doctor lev e data. Weal n care." The care. There a nay reflect w	clerotic progre Good measu el. Strengths: (nesses: Not best provider are problems i (hat the resou	ession is a fu ire of quality good outcon sure that prov may have hig n interpreting rces that are	nction of for a ne viders can gh rate of g this data, available
our best efforts, the disease many factors that we are so health system or a state or to measure, specific and gene reduce occurrence with just amputations; not always a r such as whether an amputa- at the site, and amputations	e has advanced. A metimes limited in federal, not good rates good usable "improvements in eflection of poor o tion takes place r can be wise or u	Also, atheros n controlling at doctor leve e data. Weal n care." The care. There a nay reflect w nwise, depe	clerotic progre Good measu el. Strengths: (nesses: Not best provider are problems i (hat the resounding upon th	ession is a fu ire of quality good outcon sure that pro- may have hig n interpreting rces that are e clinical situ	nction of for a viders can gh rate of this data, available ation.
our best efforts, the disease many factors that we are so health system or a state or to measure, specific and gene reduce occurrence with just amputations; not always a r such as whether an amputa- at the site, and amputations Nevertheless, the data is clear	e has advanced. A metimes limited in federal, not good rates good usable "improvements ir eflection of poor o tion takes place r s can be wise or u ear, and the result	Also, atheros n controlling at doctor lev e data. Weal n care." The care. There a nay reflect w nwise, depe t is always le	clerotic progre Good measure el. Strengths: chesses: Not best provider are problems i what the resoure nding upon the ess than what	ession is a fu good outcon sure that pro- may have hig n interpreting rces that are e clinical situ we would ha	nction of for a viders can gh rate of g this data, available ation. ve wanted
our best efforts, the disease many factors that we are so health system or a state or the measure, specific and gener reduce occurrence with just amputations; not always a risuch as whether an amputations Nevertheless, the data is clear at the start, and this measure	e has advanced. A metimes limited in federal, not good rates good usable "improvements in eflection of poor of tion takes place r s can be wise or u ear, and the resul- re is scientifically	Also, atheros n controlling at doctor lev e data. Weal n care." The care. There a nay reflect w nwise, depe t is always le	clerotic progre Good measure el. Strengths: chesses: Not best provider are problems i what the resoure nding upon the ess than what	ession is a fu good outcon sure that pro- may have hig n interpreting rces that are e clinical situ we would ha	nction of for a viders can gh rate of g this data, available ation. ve wanted
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our best efforts, the disease many factors that we are so health system or a state or the measure, specific and gener reduce occurrence with just amputations; not always a risuch as whether an amputations Nevertheless, the data is clear at the start, and this measure	e has advanced. A metimes limited in federal, not good rates good usable "improvements in eflection of poor of tion takes place r can be wise or u ear, and the resul- re is scientifically hitation.	Also, atheros n controlling at doctor leve e data. Weal n care." The care. There a nay reflect w nwise, depe t is always le sound. Risk	clerotic progre Good measure el. Strengths: chesses: Not best provider are problems i what the resoure nding upon the ess than what adjustment is	ession is a fu good outcon sure that pro- may have hig n interpreting rces that are e clinical situ we would ha open to algo	nction of for a viders can gh rate of this data, available ation. ve wanted vrithmic
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Comments: There are many factors that accelerate amputations—trauma, accidents notwithstanding. The benefit of this measure is to draw attention to the need for early detection and management of peripheral vascular disease, and in patients who have advanced disease, good hygiene, and clinical practices to delay or avoid amputation. In some instances attempts at revascularization may be futile, and an amputation is the preferred option. The indications and ultimate success of revascularization will complicate the outcome. Good outcomes measure for tracking purposes. Provides useful data for study and future policy initiatives.								
RECOMMENDATION								
	Yes	No						
Recommendation for	6							
continued endorsement								
Comments: Good as a publi purposes. Use of this measu key measure.								