

Diabetes

Clinical Advisory Group Meeting

Meeting Date: 10/20

Meeting Schedule & Agenda

Meeting 1

- Introduction to Value Based Payment
- Clinical Advisory Group- Roles and Responsibilities
- Understanding the Approach: HCI3 Overview
- Chronic Heart Episodes Definition
- Chronic Heart Episodes Impressions of Available Data

Meeting 2

- Chronic Heart Episodes Definition Recap
- Chronic Heart Episodes Quality Measures

Webinar

- Introduction to Value Based Payment
- Clinical Advisory Group Roles and Responsibilities
- Understanding the Approach: HCI3 Overview
- Introduction to Quality Measures

Meeting October 20th

- Short Review and Questions from Previous CAG Meeting
- Diabetes Episode Definition
- Diabetes Quality Measures
- Closing this Series of CAG Sessions and Next Steps



Short Review and Questions from Previous CAG Meeting

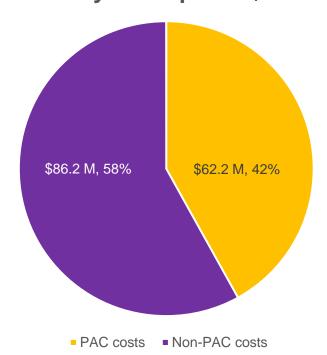


accounts for

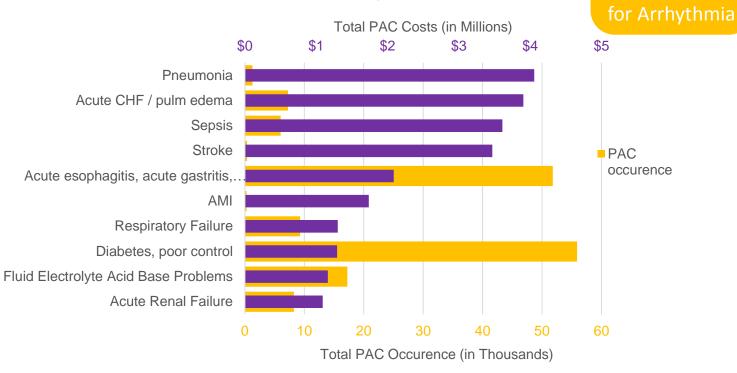
\$40.0 million

PAC Costs Represent 41.9% of the Total Arrhythmia, Heart Block, and Conduction Disorders Costs

Arrhythmia: 41.9% PAC Costs Total Arrhytmia Spend: \$ 148.4 M



Top 10 Arrhythmia PACs



Costs Included:

- Fee-for-service and MCO payments (paid encounters);
- Caveat: add-on payments included in some cost data, not in others (GME/IME, HCRA, Capital). Data not yet standardized.

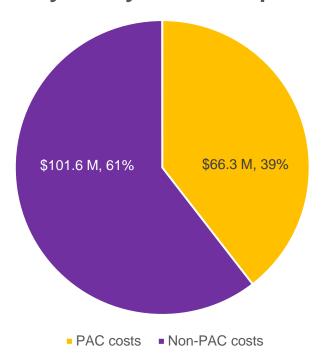


accounts for

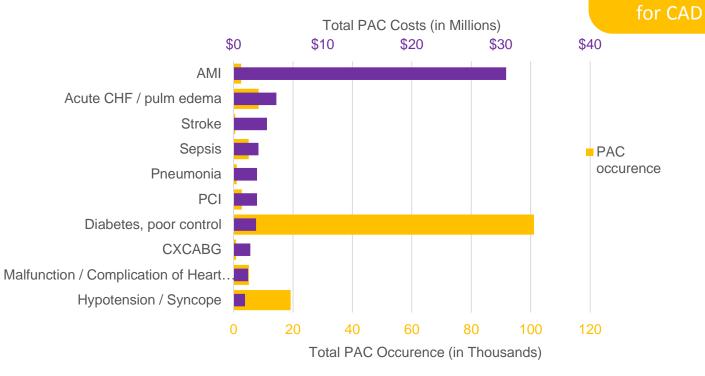
\$29.0 million

PAC Costs Represent 39.5% of the Total Coronary Artery Disease (CAD) Costs

Coronary Artery Disease: 39.5% PAC Costs
Total Coronary Artery Disease Spend: \$ 167.9 M



Top 10 CAD PACs



Costs Included:

- Fee-for-service and MCO payments (paid encounters);
- Caveat: add-on payments included in some cost data, not in others (GME/IME, HCRA, Capital). Data not yet standardized.

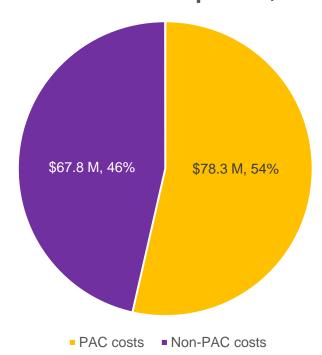
NEW YORK STATE OF OPPORTUNITY. Department of Health

accounts for

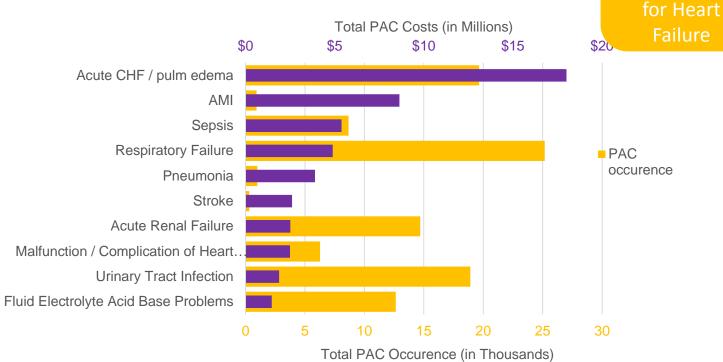
\$30.5 million

PAC Costs Represent 53.6% of the Heart Failure Costs

Heart Failure: 53.6% PAC Costs Total Heart Failure Spend: \$ 146.1 M







Costs Included:

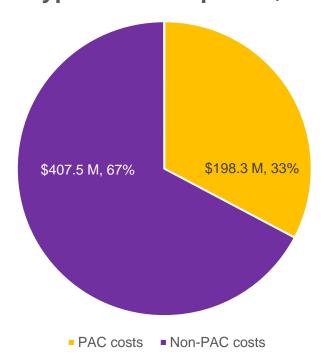
- Fee-for-service and MCO payments (paid encounters);
- Caveat: add-on payments included in some cost data, not in others (GME/IME, HCRA, Capital). Data not yet standardized.

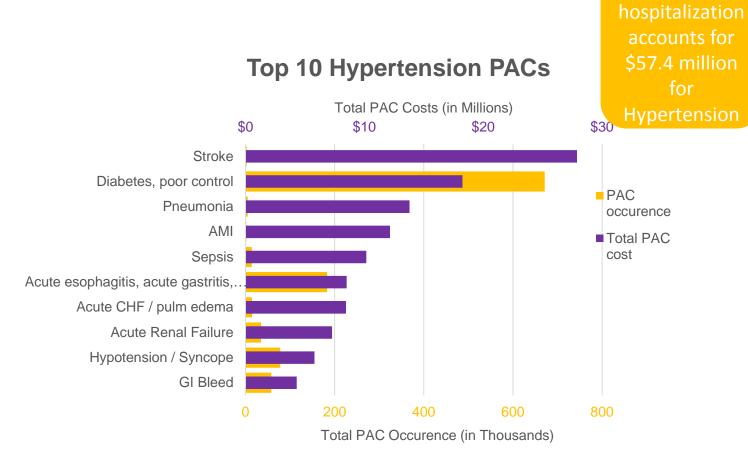


Source: 01/01/2012 – 12/31/2013 Medicaid claims for non-dual Medicaid members.

PAC Costs Represent 32.7% of the Total Hypertension Costs

Hypertension: 32.7% PAC Costs Total Hypertension Spend: \$605.8 M





Costs Included:

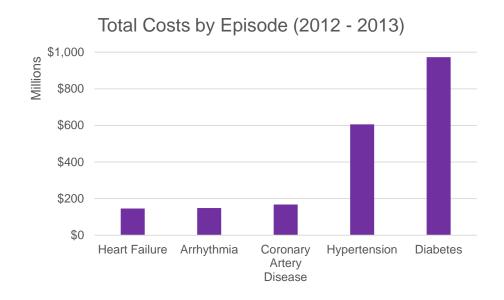
- Fee-for-service and MCO payments (paid encounters);
- Caveat: add-on payments included in some cost data, not in others (GME/IME, HCRA, Capital). Data not yet standardized.

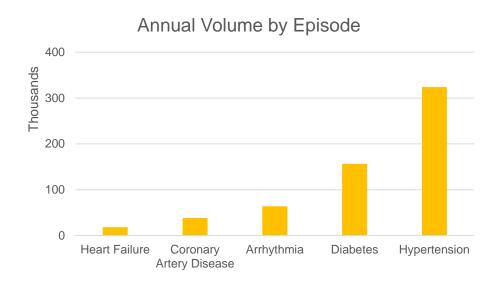


Source: 01/01/2012 – 12/31/2013 Medicaid claims for non-dual Medicaid members.

October 20th

Annualized Volume and Total Costs by Episode





Costs Included:

- Fee-for-service and MCO payments (paid encounters);
- Caveat: add-on payments included in some cost data, not in others (GME/IME, HCRA, Capital). Data not yet standardized.



Are there Any Questions, Comments or Suggestions Based on the Content of the Earlier Meetings?

Meeting 1

- Introduction to Value Based Payment
- Clinical Advisory Group- Roles and Responsibilities
- Understanding the Approach: HCI3 Overview
- Chronic Heart Episodes Definition
- Chronic Heart Episodes Impressions of Available Data

Meeting 2

- Chronic Heart Episodes Definition Recap
- Chronic Heart Episodes Quality Measures

Webinar

- Introduction to Value Based Payment
- Clinical Advisory Group Roles and Responsibilities
- Understanding the Approach: HCI3 Overview
- Introduction to Quality Measures

Important topic (based on former meetings) we will research during the pilot phase:

- Possibility to include LVEF measures for risk adjustment and quality measurement
- Option to include a claim based quality measure to look at post-discharge follow up transition in care



Short Diabetes Episode Definition



Clinical Logic

The Diabetes Episode Diabetes (DIAB)





Initial doctor visit, during which a diagnosis of DIAB is given.





Doctor visit for a broken bone (e.g. a sports injury) unrelated to the DIAB





ER Visits and inpatient admissions related to DIAB episode





Prescription medicine to treat DIAB.





Readmission following inpatient treatment for DIAB.



Diabetes Accounts for \$973.1 M in Annual Medicaid Spend



Annual Diabetes Episode Volume

156.3 K



Total Costs of Diabetes Episodes to the State (2012 – 2013)

\$ 973.1 M



Average Cost of a Diabetes Episode

\$3,113

Costs Included:

- Fee-for-service and MCO payments (paid encounters);
- Caveat: add-on payments included in some cost data, not in others (GME/IME, HCRA, Capital). Data not yet standardized.

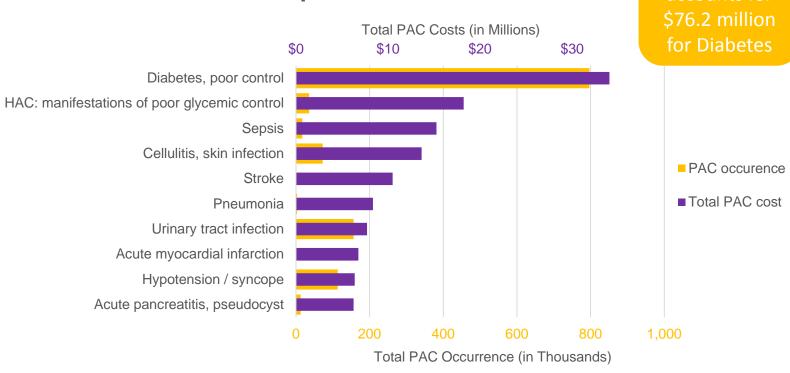
accounts for

PAC Costs Represent 26.8% of Diabetes Costs

Diabetes: 26.8% PAC Costs
Total Diabetes Spend: \$ 973.1 M









Diabetes Quality Measures



How Are the Quality Measures Going to be Used?



NY State / MCO relationship

- MCO's will be held accountable for the quality measures, and will get upward or downward adjustments based on the value of the care in their network.
- The State will make the outcomes of the recommended measures transparent to all stakeholders. The quality measures set by the CAG and accepted by the State will be mandatory for the VBP arrangement involved.

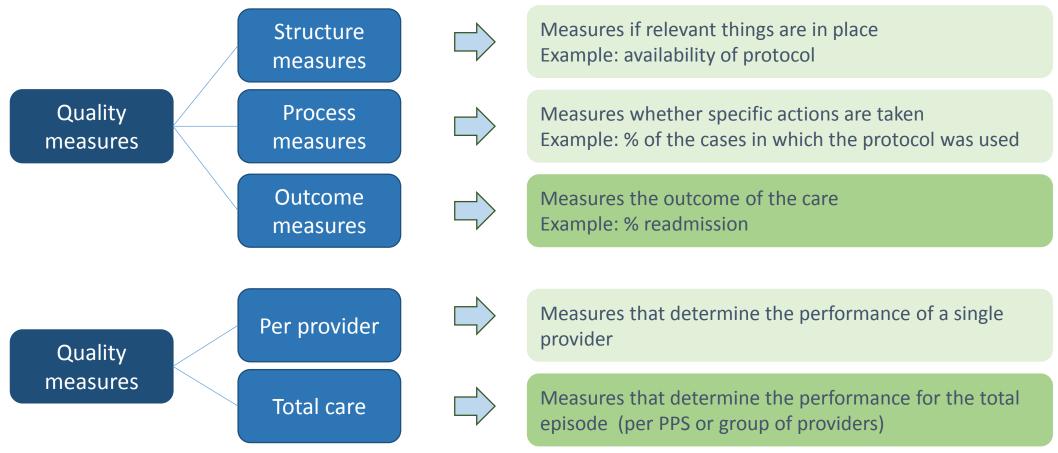


MCO / Provider relationship

- How the providers and MCO's translate the quality measures into financial consequences, and which measure(s) they want to focus on primarily, is left to these stakeholders.
- Improvement of quality measures could affect payment in different ways:
 - A higher or lower score leading to a higher or lower percentage of savings respectively available for the providers
 - A higher or lower score leading to a higher or lower negotiated rate respectively



To Assess Value, a Small Key Set of Quality Measures is Needed. Focus Should Be on the *Performance* of the Overall Episode.





The Effort of Collecting Additional Data for Quality Measurement Must Be Weighed Against the Added Value

- For care for patients with chronic conditions, most widely used quality measures can be derived from claims data.
- Other data sources for quality measures including patient surveys, medical records and assessments.
 Incorporating this data will require standardized collection efforts and can be costly, unless currently existing clinical registries or available data collection mechanisms are used. Identification of key measures is important.
 - The extra costs (in time and money) of collecting the additional data has to be weighed against the added value that the measure brings.

Added Value for Quality Measures

Extra Costs (Time and Costs) for Administration



Suggested Process for Fine Tuning Quality Measures

Pilot 2016 & Data Analyses

Evaluation of Quality Measures

Pilot 2016. In 2016 a pilot project will be started on the Chronic Bundle, which encompasses both the Chronic Heart episode and the Diabetes episode, with use of quality measures

Data Analyses. 2016 will be used to do additional data analyses (if necessary) within pilot sites:

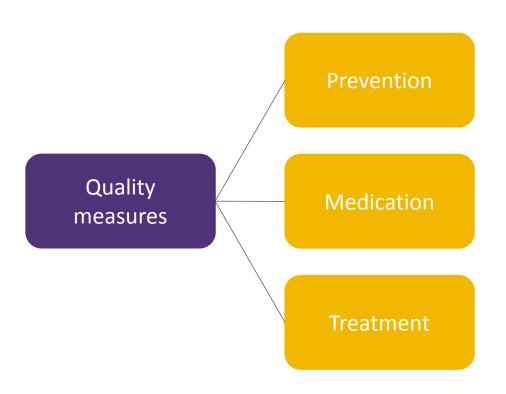
Explore addition of clinical data elements

Evaluation Quality Measures. At the end of the pilot period the projects will be evaluated and quality measures for the Chronic Bundle can be refined.

The CAG will be re-assembled yearly during the first years to discuss results of quality measures and suggestions for improvement. First-year review will result in recommended modifications for the quality measures set.



Process to Walk Through Measures in this Meeting



- The quality measures are divided into three groups
- Per group we will walk through the measures and try to assign them to a category or 'bucket' (see next slide)



For Categorizing and Prioritization of Measures We Use Three Categories (or 'Buckets')



CATEGORY 1

Approved quality measures that are felt to be both clinically relevant, reliable and valid, and feasible.



CATEGORY 2

Measures that are clinically relevant, valid and probably reliable, but where the feasibility could be problematic. These measures should be investigated during the 2016 or 2017 pilot.



CATEGORY 3

Measures that are insufficiently relevant, valid, reliable and/or feasible.



Criteria for Selecting Quality Measures

CLINICAL RELEVANCE

Focused on key outcomes of integrated care process

I.e. outcome measures are preferred over process measures; outcomes of the total care process are preferred over outcomes of a single component of the care process (i.e. the quality of one type of professional's care).

- For process measures: crucial evidence-based steps in integrated care process that may not be reflected in the patient outcome measures
- Existing variability in performance and/or possibility for improvement

RELIABILITY AND VALIDITY

Measure is well established by reputable organization

By focusing on established measures (owned by e.g. NYS Office of Quality and Patient Safety (OQPS), endorsed by the National Quality Forum (NQF), HEDIS measures and/or measures owned by organizations such as the Joint Commission, the validity and reliability of measures can be assumed to be acceptable.

Outcome measures are adequately risk-adjusted

Measures without adequate risk adjustment make it impossible to compare outcomes between providers.



Criteria for Selecting Quality Measures

FEASIBILITY

- Claims-based measures are preferred over nonclaims based measures (clinical data, surveys)
- When clinical data or surveys are required, existing sources must be available

I.e. the link between the Medicaid claims data and this clinical registry is already established.

Preferably, data sources to be patient-level data

This allows drill-down to patient level and/or adequate risk-adjustment. The exception here is measures using samples from a patient panel or records. When such a measure is deemed crucial, and the infrastructure exists to gather the data, these measures could be accepted.

Data sources must be available without significant delay

I.e. data sources should not have a lag longer than the claims-based measures (which have a lag of six months).



Selection of Measures Prevention (1/2)

		Town of	OADD /					Avail	ability	- CAG
#	Quality Measure	Type of Measure			CMS	NQF	ADA	Medicaid Claims Data	Clinical Data	categorization
1	Comprehensive Diabetes Care: Blood Pressure Control (<140/90 mm Hg)	Outcome	YES	-	YES	61	YES	NO	YES	
2	Comprehensive Diabetes Care: Medical Attention for Nephropathy	Process	YES	-	-	62	YES	YES*	YES	
3	Comprehensive Diabetes Care: Hemoglobin A1c (HbA1c) Control (<8.0%)	Outcome	YES	-	YES	575	-	NO	YES	
4	Hemoglobin A1c Control (HbA1c)	Outcome	-	-	-	-	YES	NO	YES	
5	Comprehensive Diabetes Care: Hemoglobin A1c (HbA1c) Poor Control (>9.0%)	Outcome	YES	YES	YES	59	-	NO	YES	
6	Comprehensive Diabetes Care: Hemoglobin A1c (HbA1c) testing	Process	YES	-	-	57	-	YES*	YES	
7	Comprehensive Diabetes Care: Eye Exam (retinal) performed	Process	YES	-	-	55	YES	YES*	YES	
8	Comprehensive diabetes care: LDL-c control (<100mg/dL)	Process	-	YES	-	64	-	NO	YES	
9	Comprehensive Diabetes screening – All Four Tests (HbA1c, lipid profile, dilated eye exam, nephropathy monitor)	Process	YES	YES	-	-	-	NO	YES	
10	Optimal Diabetes Care (Composite Measure)	Process	-	-	-	729	-	NO	YES	



Selection of Measures Prevention (2/2)

		Type of QARR /						Avail	ability	CAG categorization
#	Quality Measure	Measure			CMS	NQF	ADA	Medicaid Claims Data	Clinical Data	
11	Diabetic Retinopathy: Communication with the Physician Managing Ongoing Diabetes Care	Process	-	-	YES	89	-	YES*	YES	
12	Diabetic Retinopathy: Documentation of Presence or Absence of Macular Edema and Level of Severity of Retinopathy	Process	-	-	-	88	-	NO	YES	
13	Diabetes: Foot Exam	Process	-	-	-	56	YES	YES*	YES	
14	Diabetic Foot & Ankle Care, Ulcer Prevention – Evaluation of Footwear	Process	-	-	-	416	-	YES	YES	
15	Smoking Cessation discussed and documented	Process	-	-	-	-	YES	NO	YES	
16	BMI/Nutrition Counseling	Process	-	-	-	-	YES	NO	YES	
17	Depression screening (PHQ2 or 9) annually	Process	-	-	-	-	YES	YES	YES	



Selection of Measures Medication

		Type of QARR /					Avail	ability	CAG categorization	
#	Quality Measure	Measure	DSRIP C		CMS	NQF	ADA	Medicaid Claims Data		Clinical Data
18	Adherence to ACEIs/ARBs for Individuals with Diabetes Mellitus	Process	-	-	YES	2467	-	YES*	NO	
19	Adherence to Oral Diabetes Agents for Individuals with Diabetes Mellitus	Process	-	-	YES	2468	-	YES*	NO	
20	Adherence to Statins for Individuals with Diabetes Mellitus	Process	-	-	YES	545	-	YES*	NO	
21	Glycemic Control - Hyperglycemia	Outcome	-	-	YES	2362	-	NO	YES	
22	2 Glycemic Control - Hypoglycemia		-	-	YES	2363	-	NO	YES	
23	Proportion of Days Covered (PDC): 3 Rates by Therapeutic Category	Process	-	-	-	541	-	YES	NO	
24	On ACEI/ARB if hypertension or nephropathy	Process	-	-	-	-	YES	NO	YES	



Selection of Measures Treatment

		Type of	QARR /					Avail	ability	CAG
#	Quality Measure	Type of QARR / DSRIP Measure HEDIS		DSRIP	CMS	NQF	ADA	Medicaid Claims Data	Clinical Data	categorization
25	Proportion of patients with a chronic condition that have a potentially avoidable complication during a calendar year.	Outcome	-	-	-	709	-	YES	YES	
26	6 Diabetes Short-Term Complications Admission Rate (PQI 01)		-	YES	YES	272	-	YES	YES	
27	7 Diabetes Long-Term Complications Admission Rate (PQI 03)		-	-	-	274	-	YES	YES	
28	8 Uncontrolled Diabetes Admission Rate (PQI 14)		-	-	-	638	-	YES	YES	
29	Rate of Lower-Extremity Amputation Among Patients With Diabetes (PQI 16)	Outcome	-	-	-	285	-	YES	YES	



Weighing the Different Measures

- To create a single composite measure to establish 'value' of diabetes care
- Not all measures may be equally important. By allocating different 'weights' to the measures we can take relative importance into account.
- How would we weigh the individual measures?

Example

Part of Care	Measure	Weight
	Measure 1	10
Prevention	Measure 2 Measure 2 Measure 4 Measure 4 Measure 5	ed in 20
Frevention	Measification	10
to be	Measure 45ta	20
Treatment	Measure 5	10
Medication	Measure 6	10
Wedication	Measure 7	20
Total		100



Closing this Series of CAG Sessions and Next Steps



Next Steps

This was the last of the three clinical advisory meetings.

• Next steps: Continuous Evaluation and Improvement Episode and Outcome Measures **Evaluation Pilots and** Further Rollout Chronic **Pilots** Adjustments Care Episodes in NYS

• Would you like to be involved in the next steps?



Thank You For Participating in The Clinical Advisory Meetings!

Any last comments, questions and / or suggestions?





Appendix

Definitions Measures: Prevention (1/8)

#	Measure	Measure Steward	Data Source	Description	Numerator	Denominator
1	Blood Pressure	Committee for Quality	Data and Clinical Records	years of age with diabetes (type 1 and type 2) whose most recent blood pressure level taken during	pressure level was <140/90 mm Hg	
2	Medical	Committee for Quality	Data and Clinical	years of age with diabetes (type 1	screening test or had evidence of	Patients 18-75 years of age by the end of the measurement year who had a diagnosis of diabetes (type 1 or type 2) during the measurement year or the year prior to the measurement year.



Definitions Measures: Prevention (2/8)

#	Measure	Measure Steward	Data Source	Description	Numerator	Denominator
13	Comprehensive	National	Claims	The percentage of patients 18-	Patients whose most recent HbA1c level is	Patients 18-75 years of age by the end of the measurement year who had a
	Diabetes Care:	Committee	Data and	75 years of age with diabetes	less than 8.0% during the measurement	diagnosis of diabetes (type 1 or type 2) during the measurement year or the year
	Hemoglobin	for Quality	Clinical	(type 1 and type 2) whose most	year. The outcome is a result of an HbA1c	prior to the measurement year.
	A1c (HbA1c)	Assurance	Records	recent HbA1c level is <8.0%	test, indicating desirable control of	
	Control (<8.0%)			during the measurement year.	diabetes. Poor control puts the individual	
					at risk for complications including renal	
					failure, blindness, and neurologic damage.	
					There is no need for risk adjustment for	
					this intermediate outcome.	
4	Hemoglobin	ADA	Claims	Percentage of patients aged 18	Patients 18-65 with diagnosis of diabetes	An eligible diabetes patient is one who meets all three criteria:
	A1c Control		Data and	through 65 years with diabetes	without comorbidities with A1C less than	1. Is between 18 and 75 years of age.
	(HbA1c)		Clinical	w/o comorbidities who had	7% and diabetic patients age >65, and/or	2. Has had a documented diagnosis of diabetes (as defined in Table 1 below) and/or
			Records	most recent hemoglobin A1c	with significant comorbidities with	notation of prescribed insulin or oral hypoglycemics/antihyperglycemics (as defined
				less than 7% and percentage of	hemoglobin A1C less than 8%.	in Table 2 below) for at least 12 months, from the last day of the reporting period.
				diabetic patients age >65, or		3. Has been under the care of the applicant for at least 12 months. This is defined by
				with significant complications		documentation of two face-to-face visits for diabetes care between the clinician and
				and comorbidities with		the patient: one within 12 months of the last day of the reporting period and one
				hemoglobin A1C less than 8%.		that predates the last day of the reporting period by at least 12 months.



Definitions Measures: Prevention (3/8)

1	#	Measure	Measure Steward	Data Source	Description	Numerator	Denominator
	C	Care: Hemoglobin A1c HbA1c) Poor Control (>9.0%)	Committee	Claims Data and Clinical Records	recent HbA1c level during the measurement year was greater than 9.0% (poor control) or	9.0% or is missing a result, or for whom an HbA1c test was not done during the measurement year. The outcome is an out of range result of an HbA1c test, indicating poor control of diabetes. Poor control puts the individual at risk for	during the measurement year or the year prior to the
(C	Care: Hemoglobin A1c HbA1c) testing	Committee	Claims Data and Clinical Records	The percentage of patients 18-75 years of age with diabetes (type 1 and type 2) who received an HbA1c test during the measurement year.	measurement year.	Patients 18-75 years of age by the end of the measurement year who had a diagnosis of diabetes (type 1 or type 2) during the measurement year or the year prior to the measurement year.
-	C	Care: Eye Exam (retinal) performed	Committee	Claims Data and Clinical Records	eye exam (retinal) performed.	disease. This includes people with diabetes who had the following: -a retinal or dilated eye exam by an eye care professional (optometrists or ophthalmologist) in the measurement year OR –a negative retinal exam or dilated	Patients 18-75 years of age by the end of the measurement year who had a diagnosis of diabetes (type 1 or type 2) during the measurement year or the year prior to the measurement year.



Definitions Measures: Prevention (4/8)

#	Measure	Measure Steward	Data Source	Description	Numerator	Denominator
8	diabetes care - LDL-c control (<100mg/dL)	Committee	Clinical Records	years of age with diabetes (type 1	Number of people whose most recent level of bad cholesterol was below the recommended level	Number of people ages 18 to 75 with diabetes
9	Comprehensive Diabetes screening – All Four Tests (HbA1c, lipid profile, dilated eye exam, nephropathy monitor)		Claims Data & Clinical Records		Number of people who received at least one of each of the following tests: HbA1c test, cholesterol screening test, diabetes eye exam, and Medicaid attention for nephropathy	Number of people ages 18 to 75 with diabetes



Definitions Measures: Prevention (5/8)

#	Measure	Measure Steward	Data Source	Description	Numerator	Denominator
10	Optimal Diabetes Care	MN	Claims Data	The percentage of adult diabetes patients who have optimally managed	Patients ages 18 to 75 with diabetes	Patients ages 18 to 75
	(Composite Measure)	Community	and Clinical	modifiable risk factors (A1c, blood pressure, statin use, tobacco non-use and	who meet all of the following targets	with diabetes who have at
		Measurement		daily aspirin or anti-platelet use for patients with diagnosis of ischemic vascular	_	least two visits for this
				, , , , , , , , , , , , , , , , , , ,	· ·	diagnosis in the last two
					A1c less than 8.0, Blood Pressure less	
						with at least one visit in
				targets of this composite measure: A1c less than 8.0, Blood Pressure less than		the last 12 months.
				140 systolic and less than 90 diastolic, Statin use unless contraindications or	Tobacco non-user and Daily aspirin or	
				exceptions, Tobacco-free (non-user) and for patients with diagnosis of ischemic	· ·	
				, , ,	diagnosis of ischemic vascular disease	
				Please note that while the all-or-none composite measure is considered to be	use unless contraindicated.	
				the gold standard, reflecting best patient outcomes, the individual components		
				may be measured as well. This is particularly helpful in quality improvement		
				efforts to better understand where opportunities exist in moving the patients		
				toward achieving all of the desired outcomes. Please refer to the additional		
	Diabatic Datinopathy	A N A A		numerator logic provided for each component.	Dationts with documentation at least	All nationts agod 10 years
11	· · ·	AMA-			Patients with documentation, at least	
						and older with a diagnosis
	· ·	Physician Consortium for		documented communication to the physician who manages the ongoing care of the patient with diabetes mellitus regarding the findings of the macular or	_	of diabetic retinopathy who had a dilated macular
		Performance		·		or fundus exam
	Dianetes Cale			Turidus Exam at least office within 12 months		performed
		Improvement			patient 3 diabetic care	periorined



Definitions Measures: Prevention (6/8)

#	Measure	Measure Steward	Data Source	Description	Numerator	Denominator
12	Diabetic Retinopathy: Documentation of Presence or Absence of Macular Edema and Level of Severity of Retinopathy	Physician Consortium	Claims Data and Clinical Records	Percentage of patients aged 18 years and older with a diagnosis of diabetic retinopathy who had a dilated macular or fundus exam performed which included documentation of the level of severity of retinopathy and the presence or absence of macular edema during one or more office visits within 12 months	exam performed which included documentation	All patients aged 18 years and older with a diagnosis of diabetic retinopathy
13	Diabetes: Foot Exam	National Committee for Quality Assurance	Claims Data and Clinical Records	The percentage of patients 18-75 years of age with diabetes (type 1 and type 2) who received a foot exam (visual inspection and sensory exam with mono filament and a pulse exam) during the measurement year.	inspection and sensory exam with monofilament and pulse exam) during the measurement period.	Patients 18-75 years of age by the end of the measurement year who had a diagnosis of diabetes (type 1 or type 2) during the measurement year or the year prior to the measurement year.



Definitions Measures: Prevention (7/8)

#	Measure	Measure Steward	Data Source	Description	Numerator	Denominator
14	Diabetic Foot & Ankle Care, Ulcer Prevention – Evaluation of Footwear	American College of Cardiology	Claims Data	diabetes mellitus who were	Patients who were evaluated for proper footwear and sizing at least once within 12 months Definition: Evaluation for Proper Footwear – Includes a foot examination documenting the vascular, neurological, dermatological, and structural/biomechanical findings. The foot should be measured using a standard measuring device, and counseling on appropriate footwear should be based on risk categorization. Numerator Quality-Data Coding Options for Reporting Satisfactorily: Footwear Evaluation Performed G8410: Footwear evaluation performed and documented OR Footwear Evaluation not Performed for Documented Reasons G8416: Clinician documented that patient was not an eligible candidate for footwear evaluation measure OR Footwear Evaluation not Performed G8415: Footwear evaluation was not performed	All patients aged 18 years and older with a diagnosis of diabetes mellitus



October 20th

Definitions Measures: Prevention (8/8)

#	#	Measure	Measure Steward	Data Source	Description	Numerator	Denominator
1		U	ADA		Percentage of patients	Patients aged 18-75 years with a	An eligible diabetes patient is one who meets all three criteria:
		Cessation		Records		diagnosis of diabetes and	1. Is between 18 and 75 years of age.
		discussed and			'		2. Has had a documented diagnosis of diabetes (as defined in Table 1 below) and/or notation of
	C	documented				and if tobacco user, date of cessation	prescribed insulin or oral hypoglycemics/antihyperglycemics (as defined in Table 2 below) for at
					tobacco use, and if a	counseling or treatment. See "Patient Eligibility Criteria" for further	least 12 months, from the last day of the reporting period. 3. Has been under the care of the applicant for at least 12 months. This is defined by
					·	information on codes to identify	documentation of two face-to-face visits for diabetes care between the clinician and the patient:
					cessation counseling or	,	one within 12 months of the last day of the reporting period and one that predates the last day
					treatment.	patients with diabetes.	of the reporting period by at least 12 months.
1	16 E	BMI/Nutrition	ADA			Patients aged 18-75 years with a	An eligible diabetes patient is one who meets all three criteria:
-		Counseling		Records	aged 18 through 75	diagnosis of diabetes and a	1. Is between 18 and 75 years of age.
					years with diabetes for	documented BMI calculated. See	2. Has had a documented diagnosis of diabetes (as defined in Table 1 below) and/or notation of
					whom a documented	"Patient Eligibility Criteria" for further	prescribed insulin or oral hypoglycemics/antihyperglycemics (as defined in Table 2 below) for at
					'	information on codes to identify	least 12 months, from the last day of the reporting period.
						patients with diabetes.	3. Has been under the care of the applicant for at least 12 months. This is defined by
					nutrition counseling is		documentation of two face-to-face visits for diabetes care between the clinician and the patient:
					performed and		one within 12 months of the last day of the reporting period and one that predates the last day
\vdash		_			documented.		of the reporting period by at least 12 months.
1		•	ADA				An eligible diabetes patient is one who meets all three criteria:
		screening		Data		have had depression screening with	1. Is between 18 and 75 years of age.
	- 1	(PHQ2 or 9)			_		2. Has had a documented diagnosis of diabetes (as defined in Table 1 below) and/or notation of
	ā	annually			•	See "Patient Eligibility Criteria" for	prescribed insulin or oral hypoglycemics/antihyperglycemics (as defined in Table 2 below) for at
						patients with diabetes.	least 12 months, from the last day of the reporting period. 3. Has been under the care of the applicant for at least 12 months. This is defined by
						patients with diabetes.	documentation of two face-to-face visits for diabetes care between the clinician and the patient:
							one within 12 months of the last day of the reporting period and one that predates the last day
							of the reporting period by at least 12 months.
			l	1			of the reporting period by at least 12 months.

Definitions Measures: Medication (1/5)

#	:	Vleasure	Measure Steward	Data Source	Description	Numerator	Denominator
1	fo	or Individuals with Diabetes Mellitus		Clinical Records	The measure addresses adherence to angiotensin converting enzyme inhibitors (ACEIs)/angiotensin receptor blockers (ARBs). The measure is reported as the percentage of eligible individuals with diabetes mellitus who had at least two prescriptions for ACEIs/ARBs and who have a Proportion of Days Covered (PDC) of at least 0.8 during the measurement period (12 consecutive months).	least two prescriptions for ACEIs/ARBs with a PDC of at least 0.8 for ACEIs/ARBs.	Individuals at least 18 years of age as of the beginning of the measurement period with diabetes mellitus and at least two prescriptions for ACEIs/ARBs during the measurement period (12 consecutive months).
1	Α	gents for Individuals with Nabetes Mellitus		Clinical Records	diabetes agents (ODA). The measure is reported as the percentage of eligible individuals with diabetes mellitus who had	least two prescriptions for oral diabetes agents, in any diabetes drug class, with a PDC of at least 0.8 for at least one diabetes drug class.	Individuals at least 18 years of age as of the beginning of the measurement period with diabetes mellitus and at least two prescriptions for a single oral diabetes agent or at least two prescriptions for multiple agents within a diabetes drug class during the measurement period (12 consecutive months).



Definitions Measures: Medication (2/5)

#	Measure	Measure Steward	Data Source	Description	Numerator	Denominator
20	Adherence to Statins for Individuals with Diabetes Mellitus	Centers for Medicare & Medicaid Services		The measure addresses adherence to statins. The measure is reported as the percentage of eligible individuals with diabetes mellitus who had at least two prescriptions for statins and who have a Proportion of Days Covered (PDC) of at least 0.8 during the measurement period (12 consecutive months).	least two prescriptions for statins with a PDC of at least 0.8 for statins.	Individuals at least 18 years of age as of the beginning of the measurement period with diabetes mellitus and at least two prescriptions for statins during the measurement period (12 consecutive months).
21	Glycemic Control - Hyperglycemia	Centers for Medicare & Medicaid Services	Clinical Records	Average percentage of hyperglycemic hospital days for individuals with a diagnosis of diabetes mellitus, antidiabetic drugs (except metformin) administered, or at least one elevated glucose level during the hospital stay	hyperglycemia for each admission in the denominator	Total number of admissions with a diagnosis of diabetes mellitus, at least one administration of insulin or any anti-diabetic medication except metformin, or at least one elevated blood glucose value (>200 mg/dL [11.1 mmol/L]) at any time during the entire hospital stay



Definitions Measures: Medication (3/5)

#	Measure	Measure Steward	Data Source	Description	Numerator	Denominator
	Glycemic Control - Hypoglycemia	Centers for Medicare & Medicaid Services				



Definitions Measures: Medication (4/5)

#	Measure	Measure Steward	Data Source	Description	Numerator	Denominator
23	Proportion of Days Covered (PDC): 3 Rates by Therapeutic Category	Pharmacy Quality Alliance	Claims Data and Clinical Records	threshold of 80% during the measurement year. A performance rate is calculated seperately for the following	measurement year for each therapeutic category separately. Follow the steps below for each patient to determine whether the patient meets the PDC threshold. Step 1: Determine the patient's measurement period, defined as	prescriptions in a specific therapeutic category on two unique dates of service during the measurement year.



Definitions Measures: Medication (5/5)

#	Measure	Measure Steward	Data Source	Description	Numerator	Denominator
24	On ACEI/ARB if hypertension or nephropathy		Records	hypertension or diabetic nephropathy that are prescribed	diagnosis of hypertension and/or diabetic nephropathy. See "Patient Eligibility Criteria" for further information on codes to identify patients with diabetes.	An eligible diabetes patient is one who meets all three criteria: 1. Is between 18 and 75 years of age. 2. Has had a documented diagnosis of diabetes (as defined in Table 1 below) and/or notation of prescribed insulin or oral hypoglycemics/antihyperglycemics (as defined in Table 2
				neceptor blocker (Anb).		below) for at least 12 months, from the last day of the reporting period. 3. Has been under the care of the applicant for at least 12 months. This is defined by documentation of two face-to-face visits for diabetes care between the clinician and the patient: one within 12 months of the last day of the reporting period and one that predates the last day of the reporting period by at least 12 months.



Definitions Measures: Treatment (1/4)

#	Measure	Measure Steward	Data Source	Description	Numerator	Denominator
2	Proportion of patients with a chronic conditio that have a potentially avoidable complication during a calendar year.	Excellence	Claims Data	had one or more potentially avoidable complications (PACs). A Potentially Avoidable Complication is any event that negatively impacts the patient and is potentially controllable by the physicians and hospitals that manage and co-manage the patient. Generally, any hospitalization related to the patient's core chronic condition or any co-morbidity is considered a potentially avoidable complication, unless that	complications (PACs) in patients having one of six chronic conditions: Diabetes Mellitus (DM), Congestive Heart Failure (CHF), Coronary Artery Disease (CAD), Hypertension (HTN), Chronic Obstructive Pulmonary Disease (COPD) or Asthma, during the episode time window of one calendar year	years who had a trigger code for one of the six chronic conditions: Diabetes Mellitus (DM), Congestive



Definitions Measures: Treatment (2/4)

#	Measure	Measure Steward	Data Source	Description	Numerator	Denominator
2	Diabetes Short-Term Complications Admission Rate (PQI 01)	Agency for Healthcare Research and Quality	Claims Data	with short-term complications (ketoacidosis, hyperosmolarity, or coma) per 100,000 population, ages 18 years and older. Excludes obstetric admissions and transfers from other institutions.	and older, with a principal ICD-9-CM diagnosis code for diabetes short-term complications (ketoacidosis, hyperosmolarity, or coma).	



Definitions Measures: Treatment (3/4)

1	Measure	Measure Steward	Data Source	Description	Numerator	Denominator
	Complications Admission Rate (PQI 03)	Agency for Healthcare Research and Quality		Admissions for a principal diagnosis of diabetes with long-term complications (renal, eye, neurological, circulatory, or complications not otherwise specified) per 100,000 population, ages 18 years and older. Excludes obstetric admissions and transfers from other institutions.	and older, with a principal ICD-9-CM diagnosis code for diabetes with long-term complications (renal, eye, neurological, circulatory, or	Population ages 18 years and older in metropolitan area† or county. Discharges in the numerator are assigned to the denominator based on the metropolitan area or county of the patient residence, not the metropolitan area or county where the hospital discharge occurred.



Definitions Measures: Treatment (4/4)

#	;	Measure	Measure Steward	Data Source	Description	Numerator	Denominator
2	I	Diabetes Admission Rate (PQI 14)	Agency for Healthcare Research and Quality	Claims Data	Admissions for a principal diagnosis of diabetes without mention of short-term (ketoacidosis, hyperosmolarity, or coma) or long-term (renal, eye, neurological, circulatory, or other unspecified) complications per 100,000 population, ages 18 years and older. Excludes obstetric admissions and transfers from other institutions.	[NOTE: By definition, discharges with a principal diagnosis of uncontrolled diabetes without mention of short-term or long-term complications cannot have an assignment of MDC 14 (pregnancy, childbirth and the puerperium). Thus, obstetric discharges are not considered in the PQI rate.] See Prevention Quality Indicators technical specifications for additional details (available at http://www.qualityindicators.ahrq.gov/Modules/PQI_TechSpe	Population ages 18 years and older in metropolitan area† or county. Discharges in the numerator are assigned to the denominator based on the metropolitan area or county of the patient residence, not the metropolitan area or county of the hospital where the discharge occurred. May be combined with diabetes short-term complications as a single indicator as a simple sum of the rates to form the Health People 2010 indicator (note that the AHRQ QI excludes transfers to avoid double counting cases).
2	ا ا ا	Extremity Amputation Among Patients With		Claims Data	Admissions for any-listed diagnosis of diabetes and any-listed procedure of lower-extremity amputation per 100,000 population, ages 18 years and older. Excludes any-listed diagnosis of traumatic lower-extremity amputation admissions, toe amputation admission (likely to be traumatic), obstetric admissions, and transfers from other institutions.	Discharges, for patients ages 18 years and older, with any- listed ICD-9-CM procedure codes for lower-extremity amputation and any-listed ICD-9-CM diagnosis codes for	Population ages 18 years and older in metropolitan area† or county. Discharges in the numerator are assigned to the denominator based on the metropolitan area or county of the patient residence, not the metropolitan

