Behavioral Health and Developmental Disabilities Administration Prepaid Inpatient Health Plans

2018–2019 PIP Validation Report

Patients With Schizophrenia and Diabetes Who Had an HbA1c and LDL-C Test

for

Region 5—Mid-State Health Network

September 2019
For Validation Year 2





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1. Background

The Code of Federal Regulations (CFR), specifically 42 CFR §438.350, requires states that contract with managed care organizations (MCOs) to conduct an external quality review (EQR) of each contracting MCO. An EQR includes analysis and evaluation by an external quality review organization (EQRO) of aggregated information on healthcare quality, timeliness, and access. Health Services Advisory Group, Inc. (HSAG) serves as the EQRO for the State of Michigan, Department of Health and Human Services, (MDHHS)—responsible for the overall administration and monitoring of the Michigan Medicaid managed care program. MDHHS requires that the prepaid health plan (PIHP) conduct and submit performance improvement projects (PIPs) annually to meet the requirements of the Balanced Budget Act of 1997 (BBA), Public Law 105-33. According to the BBA, the quality of health care delivered to Medicaid enrollees in PIHPs must be tracked, analyzed, and reported annually. PIPs provide a structured method of assessing and improving the processes, and thereby the outcomes, of care for the population that a PIHP serves.

For State Fiscal Year (SFY) 2018–2019, the MHDDS required PIHPs to conduct PIPs in accordance with 42 CFR §438.330(b)(1) and §438.330(d)(2)(i–iv). In accordance with §438.330(d)(2)(i–iv), each PIP must include:

- Measurement of performance using objective quality indicators.
- Implementation of systematic interventions to achieve improvement in quality.
- Evaluation of the effectiveness of the interventions.
- Planning and initiation of activities for increasing or sustaining improvement.

As one of the mandatory EQR activities required by 42 CFR §438.358(b)(1)(i), HSAG, as the State's EQRO, validated the PIPs through an independent review process. In its PIP evaluation and validation, HSAG used the Department of Health and Human Services, Centers for Medicare & Medicaid Services (CMS) publication, *EQR Protocol 3: Validating Performance Improvement Projects (PIPs): A Mandatory Protocol for External Quality Review (EQR)*, Version 2.0, September 2012.¹⁻¹ HSAG's evaluation of the PIP includes two key components of the quality improvement (QI) process:

1. HSAG evaluates the technical structure of the PIP to ensure that **Mid-State Health Network** designs, conducts, and reports the PIP in a methodologically sound manner, meeting all State and federal requirements. HSAG's review determines whether the PIP design (e.g., study question, population, indicator(s), sampling techniques, and data collection methodology) is based on sound methodological principles and could reliably measure outcomes. Successful execution of this

¹⁻¹ Department of Health and Human Services, Centers for Medicare & Medicaid Services. *EQR Protocol 3: Validating Performance Improvement Projects (PIPs): A Mandatory Protocol for External Quality Review (EQR)*, Version 2.0, September 2012. Available at: https://www.medicaid.gov/medicaid/quality-of-care/medicaid-managed-care/external-quality-review/index.html. Accessed on: August 19. 2019.



- component ensures that reported PIP results are accurate and capable of measuring sustained improvement.
- 2. HSAG evaluates the implementation of the PIP. Once designed, a PIP's effectiveness in improving outcomes depends on the systematic data collection process, analysis of data, and the identification of barriers and subsequent development of relevant interventions. Through this component, HSAG evaluates how well **Mid-State Health Network** improves its rates through implementation of effective processes (i.e., barrier analyses, intervention design, and evaluation of results).

The goal of HSAG's PIP validation is to ensure that MDHHS and key stakeholders can have confidence that any reported improvement is related and can be directly linked to the quality improvement strategies and activities conducted by the PIHP during the PIP.

Rationale

The purpose of a PIP is to achieve, through ongoing measurements and interventions, significant improvement sustained over time in clinical or nonclinical areas.

For this year's 2018–2019 validation, **Mid-State Health Network** submitted its *Patients With Schizophrenia and Diabetes Who Had an HbA1c and LDL-C Test* PIP. The PIP topic selected by **Mid-State Health Network** addressed CMS' requirements related to quality outcomes—specifically, the quality, timeliness, and accessibility of care and services.

Summary

The goal of this PIP is to increase annual hemoglobin A1c and low-density lipoprotein cholesterol testing among Medicaid members with diabetes and schizophrenia. Monitoring these test results can assist in controlling diabetes; prevent serious health complications such as blindness, kidney disease, and amputations; and lead to improvement in health and functional outcomes of members. This PIP topic represents a key area of focus for improvement by **Mid-State Health Network**.

Table 1-1 outlines the study indicator for the PIP.

Table 1-1—Study Indicator

PIP Topic	Study Indicator
Patients With Schizophrenia and Diabetes Who Had an HbA1c and LDL-C Test	The percentage of members with schizophrenia and diabetes who had an HbA1c and LDL-C test during the measurement period.



Validation Overview

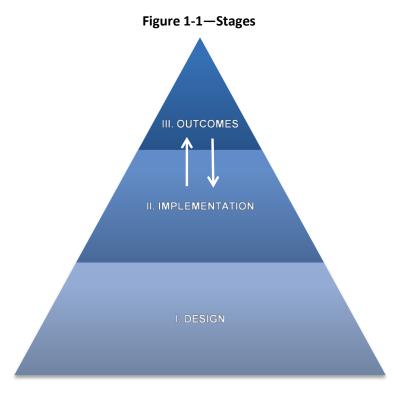
HSAG obtains the data needed to conduct the PIP validation from **Mid-State Health Network**'s PIP Summary Form. This form provides detailed information about **Mid-State Health Network**'s PIP related to the steps completed and evaluated by HSAG for the 2018–2019 validation cycle.

Each required step is evaluated on one or more elements that form a valid PIP. The HSAG PIP Review Team scores each evaluation element within a given step as *Met*, *Partially Met*, *Not Met*, *Not Applicable*, or *Not Assessed*. HSAG designates evaluation elements pivotal to the PIP process as critical elements. For a PIP to produce valid and reliable results, all critical elements must be *Met*. Given the importance of critical elements to the scoring methodology, any critical element that receives a *Not Met* score results in an overall validation rating for the PIP of *Not Met*. **Mid-State Health Network** would be given a *Partially Met* score if 60 percent to 79 percent of all evaluation elements were *Met* or one or more critical elements were *Partially Met*. HSAG provides a General Comment with a *Met* validation score when enhanced documentation would have demonstrated a stronger understanding and application of the PIP activities and evaluation elements.

In addition to the validation status (e.g., *Met*) HSAG gives the PIP an overall percentage score for all evaluation elements (including critical elements). HSAG calculates the overall percentage score by dividing the total number of elements scored as *Met* by the total number of elements scored as *Met*, *Partially Met*, and *Not Met*. HSAG also calculates a critical element percentage score by dividing the total number of critical elements scored as *Met* by the sum of the critical elements scored as *Met*, *Partially Met*, and *Not Met*.

Figure 1-1 illustrates the three stages of the PIP process—i.e., Design, Implementation, and Outcomes. Each sequential stage provides the foundation for the next stage. The Design stage establishes the methodological framework for the PIP. The steps in this section include development of the study topic, question, population, indicators, sampling techniques, and data collection. To implement successful improvement strategies, a methodologically sound study design is necessary.





Once Mid-State Health Network establishes its study design, the PIP process progresses into the Implementation stage. This stage includes data analysis and interventions. During this stage, Mid-State Health Network evaluates and analyzes its data, identifies barriers to performance, and develops active interventions targeted to improve outcomes. The implementation of effective improvement strategies is necessary to improve outcomes. The Outcomes stage is the final stage, which involves the evaluation of real and sustained improvement based on reported results and statistical testing. Sustained improvement is achieved when outcomes exhibit statistically significant improvement over the baseline and the improvement is sustained with a subsequent measurement period. This stage is the culmination of the previous two stages. If the outcomes do not improve, Mid-State Health Network investigates the data collected to ensure that Mid-State Health Network has correctly identified the barriers and implemented appropriate and effective interventions. If it has not, Mid-State Health Network should revise its interventions and collect additional data to remeasure and evaluate outcomes for improvement. This process becomes cyclical until sustained statistical improvement is achieved.



Validation Findings

HSAG's validation evaluated the technical methods of the PIP (i.e., the study design). Based on its technical review, HSAG determined the overall methodological validity of the PIP. Table 2-1 summarizes the PIP validated during the review period with an overall validation status of *Met*, *Partially Met*, or *Not Met*. In addition, Table 2-1 displays the percentage score of evaluation elements that received a *Met* score, as well as the percentage score of critical elements that received a *Met* score. Critical elements are those within the validation tool that HSAG has identified as essential for producing a valid and reliable PIP. All critical elements must receive a *Met* score for a PIP to receive an overall *Met* validation status. A resubmission is a PIHP's updates to the previously submitted PIP with corrected/additional documentation.

Table 2-1 illustrates the validation scores for the initial submission. **Mid-State Health Network** received an overall *Met* validation status, with a *Met* score for 100 percent of the evaluation elements across all activities completed in their initial submission, and did not resubmit the PIP.

Percentage Overall **Percentage** Type of Annual Score of **Name of Project Score of Critical Validation** Review¹ **Evaluation** Elements Met³ Status⁴ Elements Met² Patients With Schizophrenia Submission 100% 100% Met and Diabetes Who Had an HbA1c and LDL-C Test Resubmission NA NA NA

Table 2-1—2018–2019 PIP Validation Results for Mid-State Health Network

Table 2-2 displays the validation results for **Mid-State Health Network**'s PIP evaluated during 2018–2019. This table illustrates the PIHP's overall application of the PIP process and success in implementing the PIP. Each step is composed of individual evaluation elements scored as *Met*, *Partially Met*, or *Not Met*. Elements receiving a *Met* score have satisfied the necessary technical requirements for a specific element. The validation results presented in Table 2-2 show the percentage of applicable evaluation elements that received each score by step. Additionally, HSAG calculated a score for each stage and an overall score across all steps.

¹ **Type of Review**—Designates the PIP review as an annual submission, or resubmission. A resubmission means the PIHP was required to resubmit the PIP with updated documentation because it did not meet HSAG's validation criteria to receive an overall *Met* validation status.

² **Percentage Score of Evaluation Elements** *Met*—The percentage score is calculated by dividing the total elements *Met* (critical and non-critical) by the sum of the total elements of all categories (*Met*, *Partially Met*, and *Not Met*).

³ **Percentage Score of Critical Elements** *Met*—The percentage score of critical elements *Met* is calculated by dividing the total critical elements *Met* by the sum of the critical elements *Met*, *Partially Met*, and *Not Met*.

⁴ **Overall Validation Status**—Populated from the PIP Validation Tool and based on the percentage scores.



Table 2-2—Performance Improvement Project Validation Results for Mid-State Health Network

Store		Chan	Percei	ntage of App Elements	licable	
Stage		Step	Met	Partially Met	Not Met	
	I.	Appropriate Study Topic	100% (2/2)	0% (0/2)	0% (0/2)	
	II.	Clearly Defined, Answerable Study Question(s)	100% (1/1)	0% (0/1)	0% (0/1)	
Design	III.	Correctly Identified Study Population	100% (1/1)	0% (0/1)	0% (0/1)	
Design	IV.	Clearly Defined Study Indicator(s)	100% (1/1)	0% (0/1)	0% (0/1)	
	V.	Valid Sampling Techniques (if sampling was used)	Λ	Not Applicab	le	
	VI.	Accurate/Complete Data Collection	100% (3/3)	0% (0/3)	0% (0/3)	
		Design Total	100% (8/8)	0% (0/8)	0% (0/8)	
T 1	VII.	Sufficient Data Analysis and Interpretation	100% (3/3)	0% (0/3)	0% (0/3)	
Implementation	VIII.	Appropriate Improvement Strategies	100% (4/4)	0% (0/4)	0% (0/4)	
		Implementation Total	100% (7/7)	0% (0/7)	0% (0/7)	
0-4	IX.	Real Improvement Achieved	Not Assessed			
Outcomes	X.	Sustained Improvement Achieved		Not Assessed	l	
		Outcomes Total		Not Assessed	d	
	Percen	tage Score of Applicable Evaluation Elements Met	100% (15/15)			

Mid-State Health Network submitted the Design and Implementation stages of the PIP for this year's validation. Overall, 100 percent of all applicable evaluation elements received a score of *Met*.



Design

Mid-State Health Network designed a scientifically sound project supported by the use of key research principles. The technical design of the PIP was sufficient to measure outcomes, allowing for successful progression to the next stage of the PIP process. **Mid-State Health Network** indicated that it plans to include its entire eligible population in this PIP.

Implementation

In the Implementation stage, **Mid-State Health Network** accurately calculated and interpreted the baseline results. **Mid-State Health Network** progressed to completing a causal/barrier analysis using quality improvement tools and implementing interventions likely to impact outcomes.

Outcomes

Baseline performance was reported for the study indicator for this validation cycle. For the next annual validation, study indicator outcomes will be assessed by comparing **Mid-State Health Network**'s Remeasurement 1 results to the baseline measurement.

Analysis of Results

Table 2-3 displays outcomes data for Mid-State Health Network's *Patients with Schizophrenia and Diabetes Who Had a HbA1c and LDL-C Test* PIP. Mid-State Health Network reported baseline data for one study indicator.

Table 2-3—Performance Improvement Project Outcomes for Mid-State Health Network

	Stud	y Indicator Results		
Study Indicator	Baseline (1/1/2018–12/1/2018)	Remeasurement 1 (1/1/2019–12/31/2019)	Remeasurement 2 (1/1/2020–12/31/2020)	Sustained Improvement
Patient(s) with Schizophrenia and Diabetes who had an HbA1c and LDL-C test during the report period	52.6%			

For the baseline measurement period, **Mid-State Health Network** reported that 52.6 percent of patients with schizophrenia and diabetes had an HbA1c and LDC-C test. The PIHP did not document a goal for Remeasurement 1.



Barriers/Interventions

The identification and prioritization of barriers through causal/barrier analysis and the selection of appropriate active interventions to address these barriers are necessary steps to improve outcomes. The PIHP's choice of interventions, combination of intervention types, and sequence of implementing the interventions are essential to the PIHP's overall success in achieving the desired outcomes for the PIP.

Mid-State Health Network used brainstorming and the completion of the fishbone diagram to determine and prioritize barriers. From these tools, **Mid-State Health Network** determined the following top barriers:

- Lack of coordination and communication occurring between the primary care physicians (PCPs) and the Community Mental Health Service Programs (CMHSPs).
- Lack of access to labs.
- Information regarding completed labs is not available.

To address these barriers, Mid-State Health Network initiated the following interventions:

- The PIHP will develop and provide a brief document to the PCPs and CMHSP clinicians that explains when it is appropriate for protected health information (PHI) to be shared for the purposes of coordination of care, treatment, and payment. The Region 5 medical director will provide education related to PHI to be shared for the purposes of coordination of care, treatment, and payment to the joint group of medical directors and PCPs.
- The PIHP will implement a process to improve transportation availability. This will include developing an information sheet to provide to consumers at the time of their appointments with instructions for accessing the transportation available in each CMHSP's geographical location.
- The PIHP will implement a process for lab services to be obtained on-site at each CMHSP location. This may include a mobile lab, trained medical staff members, and an on-site lab draw station. The CMHSP will utilize the care alters to determine who does not have a claim for a completed lab.



3. Conclusions and Recommendations

Conclusions

The PIP received an overall *Met* validation status, with *Met* scores for 100 percent of critical evaluation elements and 100 percent overall for evaluation elements across all activities completed and validated. **Mid-State Health Network**'s performance on this PIP suggests a thorough application of the PIP Design stage (Steps I through VI) and Implementation stage (Steps VII through VIII). The PIP included only baseline results for this validation cycle and had not progressed to the Outcomes stage.

Recommendations

As the PIP progresses, HSAG recommends the following:

- Mid-State Health Network should address all General Comments documented in the PIP
 Validation Tool in the next annual submission. General Comments are associated with Met
 validation scores. If not addressed, the evaluation element may be scored down accordingly.
- Mid-State Health Network should ensure that it follows the approved PIP methodology to calculate and report Remeasurement 1 data accurately in next year's annual submission.
- To impact the Remeasurement 1 study indicator rate, **Mid-State Health Network** should complete a causal/barrier analysis to identify barriers to desired outcomes and implement interventions to address those barriers timely. Interventions implemented late in the Remeasurement 1 study period will not have enough time to impact the study indicator rate.
- Mid-State Health Network should document the process and steps used to determine barriers to improvement and attach completed QI tools, meeting minutes, and/or data analysis results used for the causal/barrier analysis.
- Mid-State Health Network should implement active, innovative interventions with the potential to directly impact study indicator outcomes.
- Mid-State Health Network should have a process in place for evaluating the performance of each PIP intervention and its impact on the study indicators and allow continual refinement of improvement strategies. The evaluation process should be ongoing and cyclical.
- Mid-State Health Network should reference the PIP Completion Instructions annually to ensure that all requirements for each completed step have been addressed.



Appendix A. PIP Validation Tool

The following contains the PIP validation tool for Mid-State Health Network.



Appendix A: Michigan 2018-2019 PIP Validation Tool: Patients With Schizophrenia and Diabetes Who Had an HbA1c and LDL-C Test for Region 5 - Mid-State Health Network



Demographic Information									
Plan Name: Region 5 - Mid-State Health Network									
Project Leader Name:	Sandy Gettel	Title:	Quality Manager						
Telephone Number:	(517) 220-2422	E-mail Address:	sandy.gettel@midstatehealthnetwork.org						
Name of Project: Patients With Schizophrenia and Diabetes Who Had an HbA1c and LDL-C Test									
Submission Date: 7/8/2019									





	Evaluation Elements							Scoring			Comments	
Perf	orm	ance Impr	vement P	roject/Health Care	Study Evalua	tion						
I.				: The study topic s				_		•	_	he project
	sho	uld be to i	nprove pro	ocesses and outco	mes of healtho	are. The topic	ma	y also be specified	d by the Sta	te. The study topi	c:	
C* 1. Was selected following collection and analysis of data.				✓ Met □	Par	tially Met Not I	Met \square NA	The study topic wa collection and anal				
NA is not applicable to this element for scoring.												
	Has the potential to affect consumer health, functional status, or satisfaction.					s, Met	Par	tially Met Not I	Met \square NA	The PIP has the po functional status, o		consumer health,
		The score	for this elem	nent will be Met or N	ot Met.							
						Resul	ts for	Step I				
			Tot	tal Evaluation Eleme	nts					Critical Elements		
	Total Evaluation Met Partially Met Not Met No Elements**			Not Applicabl	le	Critical Elements***	Met	Partially Met	Not Met	Not Applicable		
2 2 0 0			0		1	1	0	0	0			

^{* &}quot;C" in this column denotes a critical evaluation element.

^{**} This is the total number of all evaluation elements for this review step.

^{***} This is the total number of critical evaluation elements for this review step.





		Evaluat	ion Elements			Scoring			Comments			
Per	Performance Improvement Project/Health Care Study Evaluation											
II.	Define the Study Question(s): Stating the study question(s) helps maintain the focus of the PIP and sets the framework for data collection, analysis,											
	and interpre	etation. The stu	ıdy question:									
C*	C* 1. Was stated in simple terms and in the recommended X/Y format. Met Partially Met Not Met NA The study question was stated in simple terms using the recommended X/Y format.								imple terms using			
	NA is no	ot applicable to the	nis element for sco	oring.								
					Results 1	or Step II						
		Total	Evaluation Eleme	nts				Critical Elements		,		
			Partially Met	Not Met	Not Applicable	Critical	Met	Partially Met	Not Met	Not Applicable		
I	Elements**					Elements***						
1 1 0 0 0					0	1	1	0	0	0		

^{* &}quot;C" in this column denotes a critical evaluation element.

^{**} This is the total number of all evaluation elements for this review step.

^{***} This is the total number of critical evaluation elements for this review step.





		Evaluat	ion Elements			Scoring			Comments	
Per	formance Im	provement Pro	ject/Health Care	e Study Evalua	tion					
III.	Define the S	Study Population	n: The study po	pulation shou	d be clearly defi	ed to represent t	he population	n to which the stu	ıdy question a	nd indicators
	apply, with	out excluding c	onsumers with s	special healtho	are needs. The s	udy population:				
C* 1. Was accurately and completely defined and captured all consumers to whom the study question(s) applied.								The PIHP accurate study population.	ly and completel	ly defined the
	NA is no	ot applicable to the	nis element for sco	oring.						
					Results fo	r Step III				
		Total	Evaluation Eleme	ents				Critical Elements		
					Not Applicable	Critical	Met	Partially Met	Not Met	Not Applicable
I	Elements**			Elements***						
1 1 0 0 0					0	1	1	0	0	0

^{* &}quot;C" in this column denotes a critical evaluation element.

^{**} This is the total number of all evaluation elements for this review step.

^{***} This is the total number of critical evaluation elements for this review step.



Patients With Schizophrenia and Diabetes Who Had an HbA1c and LDL-C Test for Region 5 - Mid-State Health Network



		Evaluat	ion Elements			Sco	ring			Comments	
Perf	ormance Im	provement Pro	ject/Health Care	e Study Evalua	tion						
IV.	Select the Study Indicator(s): A study indicator is a quantitative or qualitative characteristic or variable that reflects a discrete event or a status that is to be measured. The selected indicator(s) should track performance or improvement over time. The indicator(s) should be objective, clearly and unambiguously defined, and based on current clinical knowledge or health services research. Study indicator goals should be specific, measurable, attainable, relevant, and time-bound. The study indicator(s):										
C*					✓ Met □	Partially Met	□ Not	Met □ NA	The study indicators specifications. The lacurately and prove technical specifications. The PIHP document the PIHP document baseline rate (not a however, the PIHP semeasurement 1 per documented in Step	PIHP cited the ided the year cons. ted "A 7% incompleted percentage percentage goal	rease over the oint increase);"
	2. Included the basis on which the indicator(s) was adopted, if internally developed. □ Not Met										
					Results	or Step IV					
		Total	Evaluation Eleme	ents					Critical Elements		
	al Evaluation Elements**	The Turtuity lifet 1101 lifet		Not Applicable	Critic Element		Met	Partially Met	Not Met	Not Applicable	
	2	1	0	0	1	1		1	0	0	0

State of Michigan

^{* &}quot;C" in this column denotes a critical evaluation element.

^{**} This is the total number of all evaluation elements for this review step.

^{***} This is the total number of critical evaluation elements for this review step.





	Evaluat	ion Elements					Scoring			Comments		
Perf	ormance Im	provement Pro	ject/Health Car	e Study Evalua	ation							
V.				_						Applicable [NA]). ation on the quali		
		d the measurement.g., baseline, Rem	nt period for the sneasurement 1).	ampling methods	s 🗆	Met \square I	Part	ially Met	ot Met 🗹 NA	Sampling will not	be used.	
	2. Included the title of the applicable study indicator(s).					Met \square F	Part	ially Met No	ot Met 🗹 NA	Sampling will not	be used.	
	3. Include	d the population	size.			Met \square I	Part	ially Met No	ot Met 🗹 NA	Sampling will not	be used.	
C*	* 4. Included the sample size.				Met \square I	Part	ially Met No	ot Met 🗹 NA	Sampling will not	be used.		
	5. Include	d the margin of e	rror and confidence	ce level.		Met \square I	Part	ially Met No	ot Met 🗹 NA	Sampling will not	be used.	
	6. Describ	ped in detail the m	nethod used to sele	ect the sample.		Met \square I	Part	ially Met No	ot Met 🗹 NA	Sampling will not	be used.	
C*	7. Allowe populat		Met □ I	Part	ially Met 🛚 No	ot Met 🗹 NA	Sampling will not	be used.				
						Results f	for S	Step V				
		Total	l Evaluation Elem	ents						Critical Elements		
	Total Evaluation Met Partially Met Not Met Elements**				Not Ap	pplicable		Critical Elements***	Met	Partially Met	Not Met	Not Applicable
	7	0	0	0		7		2	0	0	0	2

^{* &}quot;C" in this column denotes a critical evaluation element.

^{**} This is the total number of all evaluation elements for this review step.

^{***} This is the total number of critical evaluation elements for this review step.





		Evalua	tion Elements				Scoring			Comments	
Perf	forma	ance Improvement Pro	oject/Health Car	e Study Evalua	ition						
VI.	indic	ably Collect Data: The cation of the accuracy ection procedures incl	of the informat	-				•			•
		Clearly defined sources collected. NA is not applicable to			✓ Met □	Part	tially Met 🛚 No	t Met 🗌 NA	The PIHP clearly a elements and data	•	fined the data
C*					a ✓ Met □	Part	tially Met 🗌 No	t Met \square NA	The PIHP specified collecting baseline		
		NA is not applicable to	this element for sc	oring.							
C*			nanual data collection tool that ensured consistent and urate collection of data according to indicator cifications.					t Met 🗹 NA	The PIHP used add	ministrative data	collection only.
		An estimated degree of percentage. Met = 80 - 100 percent Partially Met = 50 - 79 Not Met = <50 percent	complete percent complete		✓ Met □	Part	tially Met 🛚 No	t Met 🗆 NA	The estimated degree completeness was percent, and the PI the administrative	between 80 perce HP explained ho	ent and 100 w it determined
					Results	for	Step VI		-		
		Tota	l Evaluation Elem	ents					Critical Elements		
	Total Evaluation Met Partially Met Not Met Elements**				Not Applicable		Critical Elements***	Met	Partially Met	Not Met	Not Applicable
	4	3	0	0	1		2	1	0	0	1

^{* &}quot;C" in this column denotes a critical evaluation element.

^{**} This is the total number of all evaluation elements for this review step.

^{***} This is the total number of critical evaluation elements for this review step.





		Evaluation Elements	Sco	ring	Comments
Perf	orma	nce Improvement Project/Health Care Study Evaluation	1		
VII.	Anal	yze Data and Interpret Study Results: Clearly present th	e results for each study i	indicator(s). Descril	be the data analysis performed and the results
		e statistical analysis, if applicable, and interpret the res		•	· · · · · · · · · · · · · · · · · · ·
		ovement can be determined. The data analysis and inte	erpretation of the study i	ndicator outcomes	
C*		Included accurate, clear, consistent, and easily understood information in the data table.	✓ Met □ Partially Met	□ Not Met □ NA	The PIHP included accurate, clear, consistent, and easily understood information in the data table.
					General Comment: The PIHP should report the study indicator results to one decimal place with rounding rules applied (i.e., baseline rate of 52.6 percent). The Remeasurement 1 goal of 56.3 percent should be documented in the Remeasurement 1 row.
		Include a narrative interpretation that addresses all required components of data analysis and statistical testing.	✓ Met □ Partially Met	□ Not Met □ NA	The PIHP provided a narrative interpretation of results that included all required components. General Comment:
					The PIHP should report the study indicator rate to one decimal place with rounding rules applied (i.e., baseline rate of 52.6 percent) in the narrative interpretation of results.
		Identified factors that threatened the validity of the data reported and ability to compare the initial measurement with the remeasurement.	✓ Met □ Partially Met	□ Not Met □ NA	The PIHP identified that no factors threatened the validity of the reported data.

^{* &}quot;C" in this column denotes a critical evaluation element.

^{**} This is the total number of all evaluation elements for this review step.

^{***} This is the total number of critical evaluation elements for this review step.





Evaluation Elements					Scoring		Comments		
Performance Im	provement Pro	ject/Health Card	e Study Evalua	ition					
	Results for Step VII								
	Total	Evaluation Eleme	ents		Critical Elements				
Total Evaluation	Met	Partially Met	Not Met	Not Applicable	Critical	Met	Partially Met	Not Met	Not Applicable
Elements**					Elements***				
3	3	0	0	0	1	1	0	0	0

^{* &}quot;C" in this column denotes a critical evaluation element.

^{**} This is the total number of all evaluation elements for this review step.

^{***} This is the total number of critical evaluation elements for this review step.





		Evaluation Elements	Scoring	Comments
Perf	orm	ance Improvement Project/Health Care Study Evaluation	n	
VIII.	thro	provement Strategies (interventions for improvement as ough a continuous cycle of data measurement and data a cess that included:		
C*	1.	A causal/barrier analysis with a clearly documented team, process/steps, and quality improvement tools.	✓ Met □ Partially Met □ Not Met □ NA	The PIHP documented its causal/barrier analysis process, described its quality improvement (QI) team, processes/steps, and tools used.
	2.	Barriers that were identified and prioritized based on results of data analysis and/or other quality improvement processes.	✓ Met □ Partially Met □ Not Met □ NA	Identified barriers were prioritized based on data analysis and/or appropriate QI processes.
C*	3.	Interventions that were logically linked to identified barriers and will directly impact study indicator outcomes.	✓ Met □ Partially Met □ Not Met □ NA	The interventions were logically linked to identified barriers and have the potential to impact study indicator outcomes.
	4.	Intervention that were implemented in a timely manner to allow for impact of study indicator outcomes.	✓ Met □ Partially Met □ Not Met □ NA	The interventions were implemented in a timely manner to allow for impact of the study indicator outcomes.
C*	5.	Evaluation of individual interventions for effectiveness.	☐ Met ☐ Partially Met ☐ Not Met ☑ NA	The PIHP has not progressed to the point of evaluating the effectiveness for each intervention.
	6.	Interventions that were continued, revised, or discontinued based on evaluation results.	☐ Met ☐ Partially Met ☐ Not Met ☑ NA	The PIHP has not progressed to the point of evaluating the effectiveness for each intervention.

^{* &}quot;C" in this column denotes a critical evaluation element.

^{**} This is the total number of all evaluation elements for this review step.

^{***} This is the total number of critical evaluation elements for this review step.







Evaluation Elements					Scoring		Comments		
Performance Impr	ovement Pi	oject/Health Car	e Study Evalua	ntion					
	Results for Step VIII								
	Tot	al Evaluation Eleme	ents		Critical Elements				
Total Evaluation	Met	Partially Met	Not Met	Not Applicable	Critical	Met	Partially Met	Not Met	Not Applicable
Elements**					Elements***				
6	4	0	0	2	3	2	0	0	1

^{* &}quot;C" in this column denotes a critical evaluation element.

^{**} This is the total number of all evaluation elements for this review step.

^{***} This is the total number of critical evaluation elements for this review step.





Evaluation Elements								Scoring			Comments			
Perf	Performance Improvement Project/Health Care Study Evaluatio													
IX.	Ass	ess for Rea	Improven	nent: Real improv	ement or mea	ningful change	ngful change in performance is evaluated based on study indicator(s) results.							
	The remeasurement methodology was the same as the baseline methodology.				■ Met ■	Met Partially Met Not Met NA Not Assessed. The PIP had not progressed to point of being assessed for real improvemen								
	The documented improvement meets the State- or plan- specific goal.					■ Met ■	■ Met ■ Partially Met ■ Not Met ■ NA			Not Assessed. The PIP had not progressed to the point of being assessed for real improvement.				
C*	C* 3. There was statistically significant improvement over the baseline across all study indicators.				■ Met ■	Par	tially Met 🔲 Not 1	Met 🗏 NA	Not Assessed. The PIP had not progressed to the point of being assessed for real improvement.					
						Results	for	Step IX						
	Total Evaluation Elements									Critical Elements				
		aluation nts**	Met	Partially Met	Not Met	Not Applicable	2	Critical Elements***	Met	Partially Met	Not Met	Not Applicable		
	3		0	0	0	0		1	0	0	0	0		

^{* &}quot;C" in this column denotes a critical evaluation element.

^{**} This is the total number of all evaluation elements for this review step.

^{***} This is the total number of critical evaluation elements for this review step.





Evaluation Elements						Scoring			Comments		
Perf	Performance Improvement Project/Health Care Study Evaluation										
X.	Assess for Sustained Improvement: Sustained improvement is demonstrated through repeated measurements over comparable time periods.										
			■ Met	Met Partially Met Not Met NA			Not Assessed. Sustained improvement cannot be assessed until statistically significant improvement over the baseline has been achieved across all study indicators, and a subsequent measurement period has been reported.				
					Resu	lts for	Step X				
		Total	Evaluation Eleme	ents					Critical Elements		
	l Evaluation lements**	Met	Partially Met	Not Met	Not Applicat	ble	Critical Elements**	* Met	Partially Met	Not Met	Not Applicable
	1	0	0	0	0		1	0	0	0	0

^{* &}quot;C" in this column denotes a critical evaluation element.

^{**} This is the total number of all evaluation elements for this review step.

^{***} This is the total number of critical evaluation elements for this review step.



Appendix A: Michigan 2018-2019 PIP Validation Tool: Patients With Schizophrenia and Diabetes Who Had an HbA1c and LDL-C Test for Region 5 - Mid-State Health Network



Table A-1—2018-2019 PIP Validation Tool Scores: Patients With Schizophrenia and Diabetes Who Had an HbA1c and LDL-C Test

	for Region 5 - Mid-State Health Network										
	Review Step	Total Possible	Total	Total	Total	Total	Total	Total	Total	Total	Total
		Evaluation Elements	Met	Partially	Not	NA	Possible	Critical	Critical	Critical	Critical
		(Including Critical		Met	Met		Critical	Elements	Elements	Elements	Elements
		Elements)					Elements	Met	Partially	Not Met	NA
									Met		
I.	Select the Study Topic(s)	2	2	0	0	0	1	1	0	0	0
II.	Define the Study Question(s)	1	1	0	0	0	1	1	0	0	0
III.	Define the Study Population	1	1	0	0	0	1	1	0	0	0
IV.	Select the Study Indicator(s)	2	1	0	0	1	1	1	0	0	0
V.	Use Sound Sampling Techniques	7	0	0	0	7	2	0	0	0	2
VI.	Reliably Collect Data	4	3	0	0	1	2	1	0	0	1
VII.	Analyze Data and Interpret Study Results	3	3	0	0	0	1	1	0	0	0
VIII	Improvement Strategies	6	4	0	0	2	3	2	0	0	1
IX.	Assess for Real Improvement	3		Not Ass	Not Assessed		1	Not Assessed			
X.	Assess for Sustained Improvement	1		Not Assessed		1	Not Assessed				
	Totals for All Steps	30	15	0	0	11	14	8	0	0	4

Table A-2—2018-2019 PIP Validation Tool Overall Score:						
Patients With Schizophrenia and Diabetes Who Had an HbA1c and LDL-C Test						
for Region 5 - Mid-State Health Network						
Percentage Score of Evaluation Elements Met*	100%					
Percentage Score of Critical Elements Met**	100%					
Validation Status***	Met					

- * The percentage score for all evaluation elements Met is calculated by dividing the total Met by the sum of all evaluation elements Met, Partially Met, and Not Met. The Not Assessed and Not Applicable scores have been removed from the scoring calculations.
- ** The percentage score of critical elements Met is calculated by dividing the total critical elements Met by the sum of the critical elements Met, Partially Met, and Not Met.
- *** Met equals high confidence/confidence that the PIP was valid.

 Partially Met equals low confidence that the PIP was valid.
 - Not Met equals reported PIP results that were not credible.



Appendix A: Michigan 2018-2019 PIP Validation Tool: Patients With Schizophrenia and Diabetes Who Had an HbA1c and LDL-C Test for Region 5 - Mid-State Health Network



EVALUATION OF THE OVERALL VALIDITY AND RELIABILITY OF PIP RESULTS							
HSAG assessed the validity and reliability of the results based on CMS validation protocols and determined whether the State and key stakeholders can have confidence in the reported PIP findings. Based on the validation of this PIP, HSAG's assessment determined the following:							
Met: High confidence/confidence in reported PIP results. All critical evaluation elements were Met, and 80 to 100 percent of all evaluation elements were Met across all activities.							
Partially Met: Low confidence in reported PIP results. All critical evaluation elements were Met, and 60 to 79 percent of all evaluation elements were Met across all activities; or one or more critical evaluation elements were Partially Met.							
Not Met: All critical evaluation elements were Met, and less than 60 percent of all evaluation elements were Met across all activities; or one or more critical evaluation elements were Not Met.							
Summary of Aggregate Validation Findings							
X Met Partially Met Not Met							



Appendix B. PIP Summary Form

Appendix B contains the PIP Summary Form **Mid-State Health Network** submitted to HSAG for validation. HSAG made only minor grammatical corrections to these forms; the content/meaning was not altered. This appendix does not include any attachments provided with the PIP submission.





for Region 5 - Mid-State Health Network

Demographic Information							
Plan Name: Mid-S	tate Health Network	Type of Delivery System: Clinical					
Project Leader Name	: Sandy Gettel	Title: Quality Manager					
Telephone Number:	517-220-2422	Email Address: sandy.gettel@midstatehealthnetwork.org					
Name of Project:	Patient(s) with Schizophrenia	a and Diabetes who had an HbA1c and LDL-C test during the report period.					
Resubmission Date:	July 8, 2019						





for Region 5 - Mid-State Health Network

Step I: Select the Study Topic. The study topic should be selected based on data that identify an opportunity for improvement. The goal of the project should be to improve processes and outcomes of healthcare. The topic may also be specified by the State.

Study Topic: The study topic is "Patient(s) with schizophrenia and diabetes who had an HbA1c and LDL-C test during the report period." The study topic aligns with a HEDIS Measure. The study topic was one of the identified topics by the Michigan Department of Health and Human Services Shared Metric Workgroup. This workgroup developed a list of topics, including this one, to have shared monitoring of health plan performance on national measures.

The goal of this PIP is to ensure that adult consumers with schizophrenia and diabetes receive both the HbA1c and LDL-C tests to ensure ongoing monitoring of an existing health condition.

The previous performance improvement project completed by Mid-State Health Network was "Diabetes Screening for People with Schizophrenia or Bipolar Disorder who are using Antipsychotic Medications." This project demonstrated positive results by meeting the established goals during remeasurement period one and remeasurement period two. The percentage of those who completed the diabetes screenings was 73.7% at baseline and was at 80.4% for remeasurement period two. The interventions applied included utilizing the ICDP database to run care alert reports monthly providing real time data, providing education to beneficiaries during person-centered planning on the importance of ongoing monitoring by a primary care physician and coordinating the completion of the screenings through the CMHSP or through the primary care physician. The results of this project exceeded our established goals. When compared to benchmark rates, MSHN started at 73.7% during baseline as compared to 83.6% for the Medicaid Health Plans and showed a marked improvement by our observed rate being at 80.4% and the Medicaid Health Plans rate being at 82.6% during remeasurement period two.

Based on the success of the interventions being applied, choosing the project "Patient(s) with Schizophrenia and Diabetes who had an HbA1c and LDL-C test during the report period" was a natural next step to continue to utilize the interventions to full capacity and to continue to emphasis coordination of care among beneficiaries.

Provide plan-specific data: This topic was chosen by the PIHP to make sure consumers were receiving certain physical health screenings and tests that might be performed outside of standard age- and sex-specific guidelines. HEDIS definitions were used as these are the gold standard for patient care and by using these guidelines, PIHP findings can be compared to other healthcare organizations (more directly comparable to other PIHPs as socioeconomic factors would be similar). The HbA1c is relevant to test for blood glucose levels over time as it quantifies how





for Region 5 - Mid-State Health Network

Step I: Select the Study Topic. The study topic should be selected based on data that identify an opportunity for improvement. The goal of the project should be to improve processes and outcomes of healthcare. The topic may also be specified by the State.

well an individual's blood glucose levels are being controlled. The LDL-C is relevant to predict an individual's risk of developing heart disease. Typically, those who have been diagnosed with diabetes have an increased risk for heart disease. Completing both the HbA1c and the LDL-C will test for controlled blood glucose levels and risks for developing heart disease.

Historical Data for the region is not available for MSHN.

Baseline data received during the report period January 1, 2018 through December 31, 2018 for "Patient(s) with Schizophrenia and Diabetes who had an HbA1c and LDL-C test during the report period" indicated that MSHN had a rate of 52.62% (543/1031) for those who received a HbA1c and LDL-C. By comparison, the Michigan Weighted Average (MWA)which consists of the Medicaid Health Plans in Michigan, demonstrated 69.97% for those who received a HbA1c and LDL-C test during the baseline measurement year.

Describe how the study topic has the potential to improve consumer health, functional status, or satisfaction: HEDIS measures are designed to assess the quality of healthcare services received and this topic will help identify whether those receiving specialty behavioral health services for schizophrenia are receiving screenings and tests related to controlling diabetes and assessing risks for heart disease.





for Region 5 - Mid-State Health Network

Step II: Define the Study Question(s). Stating the question(s) helps maintain the focus of the PIP and sets the framework for data collection, analysis, and interpretation.

The Study Question(s) should:

- Be structured in the recommended X/Y format: "Does doing X result in Y?"
- State the problem in clear and simple terms.
- Be answerable based on the data collection methodology and study indicator(s).

Study Question(s): Do targeted interventions increase the percentage of consumers diagnosed with schizophrenia who have an annual HbA1c and LDL-C test?

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for Region 5 - Mid-State Health Network

Step III: Define the Study Population. The study population should be clearly defined to represent the population to which the study question and indicators apply, without excluding consumers with special healthcare needs.

The study population definition should:

- Include the requirements for the length of enrollment, continuous enrollment, new enrollment, and allowable gap criteria.
- Include the age range and the anchor dates used to identify age criteria, if applicable.
- Include the inclusion, exclusion, and diagnosis criteria.
- Include a list of diagnosis/procedure/pharmacy/billing codes used to identify consumers, if applicable.
- Capture all consumers to whom the study question(s) applies.
- Include how race and ethnicity will be identified, if applicable.

Study Population: Medicaid enrolled adults with schizophrenia who have been diagnosed with diabetes.

Enrollment requirements (if applicable): Medicaid eligible adults (18-64 years old) receiving services from the PIHP who have at least one PIHP reported encounter to the State's data warehouse. Continuous Medicaid Enrollment applies to the study question. Members with more than one gap in enrollment, or one gap greater than 45 days as determined by the 834 enrollment file will be excluded. Included Medicaid Scope and coverage codes D1, D2, F1, F2, K1, K2, P1, T1, T2.

Consumer age criteria (if applicable): Adults age 18 years to 64 years of age as of the end of the measurement period.

Inclusion, exclusion, and diagnosis criteria:

The potentially eligible members will include those between the ages of 18 and 64, at of the end of the measurement period, who also satisfy the following:

- One, or both, of the following conditions during the measurement year:
 - o At least one acute inpatient encounter, with any diagnosis of schizophrenia
 - o At least two visits in an outpatient, intensive outpatient, partial hospitalization, ED or non-acute inpatient setting, on different dates of service, with any diagnosis of schizophrenia





for Region 5 - Mid-State Health Network

Step III: Define the Study Population. The study population should be clearly defined to represent the population to which the study question and indicators apply, without excluding consumers with special healthcare needs.

The study population definition should:

- Include the requirements for the length of enrollment, continuous enrollment, new enrollment, and allowable gap criteria.
- Include the age range and the anchor dates used to identify age criteria, if applicable.
- Include the inclusion, exclusion, and diagnosis criteria.
- Include a list of diagnosis/procedure/pharmacy/billing codes used to identify consumers, if applicable.
- Capture all consumers to whom the study question(s) applies.
- Include how race and ethnicity will be identified, if applicable.
 - Members with diabetes, must be determined by the following (during the measurement year or the year prior to the measurement year)
 - o Claim/encounter data:
 - At least two outpatient visits, observation visits, ED visits or nonacute inpatient encounters, on different dates of service, with a diagnosis of diabetes. Visit type need not be the same for the two encounters
 - At least one acute inpatient encounter with a diagnosis of diabetes
 - o Pharmacy data:
 - Members who were dispensed insulin or oral hypoglycemic/anti-hyperglycemic on an ambulatory basis

The eligible population, will be calculated by excluding the potentially eligible members who meet the following conditions:

• Members with no more than one gap in enrollment of up to 45 days during the measurement year as determined by the 834 enrollment file. To determine continuous enrollment for a Medicaid beneficiary for whom enrollment is verified monthly, the member may not have more than a 1-month gap in coverage (i.e., a member whose coverage lapses for 2 months [60 days] is not considered continuously enrolled.

Diagnosis/procedure/pharmacy/billing codes (if applicable):

The attached *SMD_Value Sets-2018.xlsx* file of the code sets published in 2018 by the National Quality Forum to be used for the HEDIS measure "Patient(s) with Schizophrenia and Diabetes who had an HbA1c and LDL-C test during the report period" were used.





for Region 5 - Mid-State Health Network

Step IV: Select the Study Indicator(s). A study indicator is a quantitative or qualitative characteristic or variable that reflects a discrete event or a status that is to be measured. The selected indicator(s) should track performance or improvement over time. The indicator(s) should be objective, clearly and unambiguously defined, and based on current clinical knowledge or health services research. Study indicator goals should be specific, measurable, attainable, relevant, and time-bound.

The description of the study Indicator(s) should:

- Include the complete title of the study indicator(s).
- Include a narrative description of the numerator(s) and denominator(s).
- Include the rationale for selecting the study indicator(s).
- If indicators are based on nationally recognized measures (e.g., HEDIS), include the year of the HEDIS technical specifications used for the applicable measurement year and update the year annually.
- Include complete dates for all measurement periods (with the day, month, and year).
- Include plan-specific goals for the remeasurement periods that are specific, measurable, attainable, relevant, and time-bound.
- Include the State-designated goal, if applicable.

Study Indicator 1: Patient(s) with Schizophrenia and Diabetes who had an HbA1c and LDL-C test during the report period.

Provide a narrative description and the rationale for selection of the study indicator. Describe the basis on which the indicator was adopted, if internally developed.

The goal of this PIP is to ensure that adult consumers with schizophrenia and diabetes receive both the HbA1c and LDL-C tests to ensure ongoing monitoring of an existing health condition.

The study topic aligns with the 2018 spec HEDIS Measure "Patient(s) with schizophrenia and diabetes who had an HbA1c and LDL-C test during the report period."





for Region 5 - Mid-State Health Network

Step IV: Select the Study Indicator(s). A study indicator is a quantitative or qualitative characteristic or variable that reflects a discrete event or a status that is to be measured. The selected indicator(s) should track performance or improvement over time. The indicator(s) should be objective, clearly and unambiguously defined, and based on current clinical knowledge or health services research. Study indicator goals should be specific, measurable, attainable, relevant, and time-bound.

- Include the complete title of the study indicator(s).
- Include a narrative description of the numerator(s) and denominator(s).
- Include the rationale for selecting the study indicator(s).
- If indicators are based on nationally recognized measures (e.g., HEDIS), include the year of the HEDIS technical specifications used for the applicable measurement year and update the year annually.
- Include complete dates for all measurement periods (with the day, month, and year).
- Include plan-specific goals for the remeasurement periods that are specific, measurable, attainable, relevant, and time-bound.
- Include the State-designated goal, if applicable.

	7 TERROR TO THE TOTAL CONTROL OF THE TOTAL CONTROL
	This topic was chosen by the PIHP to make sure consumers were receiving certain physical health screenings and tests that might be performed outside of standard age- and sex-specific guidelines. HEDIS definitions were used as these are the gold standard for patient care and by using these guidelines, PIHP findings can be compared to other healthcare organizations (more directly comparable to other PIHPs as socioeconomic factors would be similar). The HbA1c is relevant to test for blood glucose levels over time as it quantifies how well an individual's blood glucose levels are being controlled. The LDL-C is relevant to predict an individual's risk of developing heart disease. Typically those who have been diagnosed with diabetes have an increased risk for heart disease. Completing both the HbA1c and the LDL-C will test for controlled blood glucose levels and risks for developing heart disease.
Numerator Description:	Those in the denominator who had the HbA1c and an LDL-C test performed during the measurement year.





for Region 5 - Mid-State Health Network

Step IV: Select the Study Indicator(s). A study indicator is a quantitative or qualitative characteristic or variable that reflects a discrete event or a status that is to be measured. The selected indicator(s) should track performance or improvement over time. The indicator(s) should be objective, clearly and unambiguously defined, and based on current clinical knowledge or health services research. Study indicator goals should be specific, measurable, attainable, relevant, and time-bound.

- Include the complete title of the study indicator(s).
- Include a narrative description of the numerator(s) and denominator(s).
- Include the rationale for selecting the study indicator(s).
- If indicators are based on nationally recognized measures (e.g., HEDIS), include the year of the HEDIS technical specifications used for the applicable measurement year and update the year annually.
- Include complete dates for all measurement periods (with the day, month, and year).
- Include plan-specific goals for the remeasurement periods that are specific, measurable, attainable, relevant, and time-bound.
- Include the State-designated goal, if applicable.

and a second sec	
Denominator Description:	The entire eligible populations for the study indicator based on HEDIS specifications for the SMD measure.
Baseline Measurement Period (include date range) 01/01/2018 – 12/31/2018	01/01/2018 - 12/31/2018
Remeasurement 1 Period (include date range) 01/01/2019 – 12/31/2019	01/01/2019- 12/31/2019
Remeasurement 1 Period Goal	A 7% increase over the baseline rate (not a 7 percentage-point increase)
Remeasurement 2 Period (include date range) 01/01/2020 – 12/31/2020	01/01/2020 -12/31/2020





for Region 5 - Mid-State Health Network

Step IV: Select the Study Indicator(s). A study indicator is a quantitative or qualitative characteristic or variable that reflects a discrete event or a status that is to be measured. The selected indicator(s) should track performance or improvement over time. The indicator(s) should be objective, clearly and unambiguously defined, and based on current clinical knowledge or health services research. Study indicator goals should be specific, measurable, attainable, relevant, and time-bound.

- Include the complete title of the study indicator(s).
- Include a narrative description of the numerator(s) and denominator(s).
- Include the rationale for selecting the study indicator(s).
- If indicators are based on nationally recognized measures (e.g., HEDIS), include the year of the HEDIS technical specifications used for the applicable measurement year and update the year annually.
- Include complete dates for all measurement periods (with the day, month, and year).
- Include plan-specific goals for the remeasurement periods that are specific, measurable, attainable, relevant, and time-bound.
- Include the State-designated goal, if applicable.

Remeasurement 2 Period Goal	To be determined.
State-Designated Goal or Benchmark	N/A (However, health plan ranking from MI2018 HEDIS 2018 Results Statewide Aggregate Report indicated the Michigan Weighted Average for those who received a HbA1c and LDL-C test during the baseline measurement year was 69.97%)
Source of Benchmark	
Study Indicator 2: [Enter title]	Provide a narrative description and the rationale for selection of the study indicator. Describe the basis on which the indicator was adopted, if internally developed.
	Not Applicable – Only one Study Indicator for this Project
Numerator Description:	Not Applicable – Only one Study Indicator for this Project
Denominator Description:	Not Applicable – Only one Study Indicator for this Project





for Region 5 - Mid-State Health Network

Step IV: Select the Study Indicator(s). A study indicator is a quantitative or qualitative characteristic or variable that reflects a discrete event or a status that is to be measured. The selected indicator(s) should track performance or improvement over time. The indicator(s) should be objective, clearly and unambiguously defined, and based on current clinical knowledge or health services research. Study indicator goals should be specific, measurable, attainable, relevant, and time-bound.

- Include the complete title of the study indicator(s).
- Include a narrative description of the numerator(s) and denominator(s).
- Include the rationale for selecting the study indicator(s).
- If indicators are based on nationally recognized measures (e.g., HEDIS), include the year of the HEDIS technical specifications used for the applicable measurement year and update the year annually.
- Include complete dates for all measurement periods (with the day, month, and year).
- Include plan-specific goals for the remeasurement periods that are specific, measurable, attainable, relevant, and time-bound.
- Include the State-designated goal, if applicable.

Baseline Measurement Period (include date range) MM/DD/YYYY to MM/DD/YYYY	Not Applicable – Only one Study Indicator for this Project
Remeasurement 1 Period (include date range) MM/DD/YYYY to MM/DD/YYYY	Not Applicable – Only one Study Indicator for this Project
Remeasurement 1 Period Goal	Not Applicable – Only one Study Indicator for this Project
Remeasurement 2 Period (include date range) MM/DD/YYYY to MM/DD/YYYY	Not Applicable – Only one Study Indicator for this Project





for Region 5 - Mid-State Health Network

Step IV: Select the Study Indicator(s). A study indicator is a quantitative or qualitative characteristic or variable that reflects a discrete event or a status that is to be measured. The selected indicator(s) should track performance or improvement over time. The indicator(s) should be objective, clearly and unambiguously defined, and based on current clinical knowledge or health services research. Study indicator goals should be specific, measurable, attainable, relevant, and time-bound.

- Include the complete title of the study indicator(s).
- Include a narrative description of the numerator(s) and denominator(s).
- Include the rationale for selecting the study indicator(s).
- If indicators are based on nationally recognized measures (e.g., HEDIS), include the year of the HEDIS technical specifications used for the applicable measurement year and update the year annually.
- Include complete dates for all measurement periods (with the day, month, and year).
- Include plan-specific goals for the remeasurement periods that are specific, measurable, attainable, relevant, and time-bound.
- Include the State-designated goal, if applicable.

Remeasurement 2 Period Goal	Not Applicable – Only one Study Indicator for this Project			
State-Designated Goal or Benchmark	Not Applicable – Only one Study Indicator for this Project			
Source of Benchmark	Not Applicable – Only one Study Indicator for this Project			
Study Indicator 3: [Enter title]	Provide a narrative description and the rationale for selection of the study indicator. Describe the basis on which the indicator was adopted, if internally developed.			
	Not Applicable – Only one Study Indicator for this Project			
Numerator Description:	Not Applicable – Only one Study Indicator for this Project			
Denominator Description:	Not Applicable – Only one Study Indicator for this Project			





for Region 5 - Mid-State Health Network

Step IV: Select the Study Indicator(s). A study indicator is a quantitative or qualitative characteristic or variable that reflects a discrete event or a status that is to be measured. The selected indicator(s) should track performance or improvement over time. The indicator(s) should be objective, clearly and unambiguously defined, and based on current clinical knowledge or health services research. Study indicator goals should be specific, measurable, attainable, relevant, and time-bound.

The description of the study Indicator(s) should:

- Include the complete title of the study indicator(s).
- Include a narrative description of the numerator(s) and denominator(s).
- Include the rationale for selecting the study indicator(s).
- If indicators are based on nationally recognized measures (e.g., HEDIS), include the year of the HEDIS technical specifications used for the applicable measurement year and update the year annually.
- Include complete dates for all measurement periods (with the day, month, and year).
- Include plan-specific goals for the remeasurement periods that are specific, measurable, attainable, relevant, and time-bound.
- Include the State-designated goal, if applicable.

Baseline Measurement Period (include date range) MM/DD/YYYY to MM/DD/YYYY	Not Applicable – Only one Study Indicator for this Project
Remeasurement 1 Period (include date range) MM/DD/YYYY to MM/DD/YYYY	Not Applicable – Only one Study Indicator for this Project
Remeasurement 1 Period Goal	Not Applicable – Only one Study Indicator for this Project
Remeasurement 2 Period (include date range) MM/DD/YYYY to MM/DD/YYYY	Not Applicable – Only one Study Indicator for this Project

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for Region 5 - Mid-State Health Network

Step IV: Select the Study Indicator(s). A study indicator is a quantitative or qualitative characteristic or variable that reflects a discrete event or a status that is to be measured. The selected indicator(s) should track performance or improvement over time. The indicator(s) should be objective, clearly and unambiguously defined, and based on current clinical knowledge or health services research. Study indicator goals should be specific, measurable, attainable, relevant, and time-bound.

The description of the study Indicator(s) should:

- Include the complete title of the study indicator(s).
- Include a narrative description of the numerator(s) and denominator(s).
- Include the rationale for selecting the study indicator(s).
- If indicators are based on nationally recognized measures (e.g., HEDIS), include the year of the HEDIS technical specifications used for the applicable measurement year and update the year annually.
- Include complete dates for all measurement periods (with the day, month, and year).
- Include plan-specific goals for the remeasurement periods that are specific, measurable, attainable, relevant, and time-bound.
- Include the State-designated goal, if applicable.

Remeasurement 2 Period Goal	Not Applicable – Only one Study Indicator for this Project		
State-Designated Goal or Benchmark	Not Applicable – Only one Study Indicator for this Project		
Source of Benchmark	Not Applicable – Only one Study Indicator for this Project		

Use this area to provide additional information, if necessary.





for Region 5 - Mid-State Health Network

Step V: Use Sound Sampling Techniques. If sampling is used to select consumers of the study, proper sampling techniques are necessary to provide valid and reliable information on the quality of care provided. Sampling techniques should be in accordance with generally accepted principles of research design and statistical analysis.

The description of the sampling methods should:

- Include components identified in the table below.
- Be updated annually for each measurement period and for each study indicator.
- Include a detailed narrative description of the methods used to select the sample and ensure sampling techniques support generalizable results.

Measurement Period	Study Indicator		Sample Size	Margin of Error and Confidence Level
MM/DD/YYYY- MM/DD/YYYY				

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Describe in detail the methods used to select the sample:

N/A, all eligible consumers will be included in the study.





for Region 5 - Mid-State Health Network

Step VI: Reliably Collect Data. The data collection process must ensure that data collected for the study indicators are valid and reliable.

The data collection methodology should include the following:

- Identification of data elements and data sources.
- When and how data are collected.
- How data are used to calculate the study indicators.
- A copy of the manual data collection tool, if applicable.

• An estimate of the administrative data completeness percentage and the process used to determine this percentage.					
Data Sources (Select all that apply) [] Hybrid—Both medical/treatmen	t record review (manual data collection) and administrative data.				
[] Medical/Treatment Record Abstraction Record Type [] Outpatient [] Inpatient [] Other Other Requirements [] Data collection tool attached [] Other data	[X] Administrative Data Data Source [X] Programmed pull from claims/encounters [] Complaint/appeal [X] Pharmacy data [] Telephone service data/call center data [] Appointment/access data [] Delegated entity/vendor data [] X] Other Medicaid Claims Dataset Other Requirements [X] Codes used to identify data elements (e.g., ICD-9/ICD-10, CPT codes) ICD-9/10, CPT Codes, NDC	[] Survey Data Fielding Method [] Personal interview [] Mail [] Phone with CATI script [] Phone with IVR [] Internet [] Other Other Requirements [] Number of waves			
	[] Data completeness assessment attached [] Coding verification process attached Estimated percentage of administrative data completeness: _95_ percent.	[] Response rate [] Incentives used			





for Region 5 - Mid-State Health Network

Step VI: Reliably Collect Data. The data collection process must ensure that data collected for the study indicators are valid and reliable.

The data collection methodology should include the following:

- Identification of data elements and data sources.
- When and how data are collected.
- How data are used to calculate the study indicators.
- A copy of the manual data collection tool, if applicable.
- An estimate of the administrative data completeness percentage and the process used to determine this percentage.

Describe the process used to determine data completeness: Claims and encounters are submitted to MDHHS from all types of providers. MDHHS will not accept claims/encounters into its warehouse without meeting the minimum standards for submission. Providers are required to submit Medicaid encounters to MDHHS within 30 days after the service was provided. Transactions will not be accepted if they do not meet completeness requirements. Typically, over 95% of the transactions are submitted within the 30 days after service date timeframes.





for Region 5 - Mid-State Health Network

Step VI: Determine the Data Collection Cycle.	Determine the Data Analysis Cycle.
 [] Once a year [] Once a season [X] Once a quarter [] Once a month [] Once a week [] Once a day [] Continuous [] Other (list and describe): 	 [X] Once a year [] Once a season [] Once a quarter [] Once a month [] Continuous [] Other (list and describe):





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Describe the data collection process:

Data analysis plan:

Rates are determined by dividing the number of those in the study population with the physical health service of interest (HbA1c and LDL-C) by all those in the study population. Rates will be compared between measurement periods using 2-proportion tests (95% two-sided confidence interval). Benchmark rates for the same HEDIS measure are available for a single year for Medicaid Health Plans in Michigan and will be used to compare to MSHN rates using 2-proportion tests (95% two-sided confidence interval).

Data collection process:

Data from the Medicaid Claims Dataset are all physical and mental health claims (excluding substance use disorder claims) for CMHSP consumers that were paid by Medicaid. Claims are updated nightly and available for the PIHP to retrieve from MDHHS once per week. Claims can be retrieved less frequently from MDHHS as well. These claims contain information on eligibility criteria (prescription fills) as well as outcomes of interest (PCP visits and HbA1c and LDL-C test). Claims are limited to identifying that a service was provided (with associated ICD-9/10 codes where applicable) but do not report the results from any screenings/tests.

- **Step 1**: The PIHP will use the enrollment file (834) to identify all Medicaid enrollees in the measurement year. A file listing these individuals (5656) is uploaded per MDHHS requirements to DEG mailbox.
- Step 2: On the following Monday morning claims files (5657) should be ready for downloading from the DEG mailbox
- Step 3: Data is imported and merged with any previous claims data files
- **Step 4**: The potentially eligible members will include those between the ages of 18 and 64, at of the end of the measurement period, who also satisfy the following:
 - One, or both, of the following conditions during the measurement year:
 - o At least one acute inpatient encounter, with any diagnosis of schizophrenia
 - o At least two visits in an outpatient, intensive outpatient, partial hospitalization, ED or non-acute inpatient setting, on different dates of service, with any diagnosis of schizophrenia





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Describe the data collection process:

- Members with diabetes, must be determined by the following (during the measurement year or the year prior to the measurement year)
 - o Claim/encounter data:
 - At least two outpatient visits, observation visits, ED visits or nonacute inpatient encounters, on different dates of service, with a diagnosis of diabetes. Visit type need not be the same for the two encounters
 - At least one acute inpatient encounter with a diagnosis of diabetes
 - o Pharmacy data:
 - Members who were dispensed insulin or oral hypoglycemic/anti-hyperglycemic on an ambulatory basis

Step 5: The eligible population (denominator), will be calculated by excluding the potential eligible members who meet the following conditions:

• Members with no more than one gap in enrollment of up to 45 days during the measurement year as determined by the 834 enrollment file. To determine continuous enrollment for a Medicaid beneficiary for whom enrollment is verified monthly, the member may not have more than a 1-month gap in coverage (i.e., a member whose coverage lapses for 2 months [60 days] is not considered continuously enrolled.

Step 6: The progress of the eligible population (numerator), will be calculated by counting the members who meet the following condition:

• A HbA1c and LDL-C tests performed during the measurement year

Data retrieval and analysis can be done by PIHP-contracted personnel or through a vendor supplied this same Medicaid Claims Data by the PIHP. Either process will follow the same data collection steps and yield the same results.

To ensure the completeness and accuracy of the data in determining the study indicator rate, the PIHP will take into account the time lag allowed for the submission of claims for the CMHSP consumers. The data utilized to determine the study indicator rate will be retrieved for analysis 90 days after the end of the measurement period.





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Step VII: Study Indicator Results. Enter the results of the study indicator(s) in the table below. For HEDIS-based PIPs, the data reported in the PIP Summary Form should match the validated performance measure rate(s).

Enter results for each study indicator—including the goals, statistical testing with complete p values, and the statistical significance—in the table provided.

Study Indicator 1 Title: [Enter title of study indicator]

Time Period Measurement Covers	Indicator Measurement	Numerator	Denominator	Rate or Results	Goal	Statistical Test, Statistical Significance, and p Value
01/01/2018–12/31/2018	Baseline	543	1032	52.62%	NA	NA
	Remeasurement 1					
	Remeasurement 2					
	Remeasurement 3					

Study Indicator 2 Title: [Enter title of study indicator]

Time Period Measurement Covers	Indicator Measurement	Numerator	Denominator	Rate or Results	Goal	Statistical Test, Statistical Significance, and p Value
MM/DD/YYYY- MM/DD/YYYY	Baseline					
	Remeasurement 1					
	Remeasurement 2					
	Remeasurement 3					

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Appendix B: State of Michigan 2018-2019 PIP Summary Form Patients With Schizophrenia and Diabetes Who Had an HbA1c and LDL-C Test for Region 5 - Mid-State Health Network



Step VII: Data Analysis and Interpretation of Study Results. Clearly document the results for each of the study indicator(s). Describe the data analysis performed and the results of the statistical analysis, and interpret the results. Through data analysis and interpretation, real improvement as well as sustained improvement can be determined.

The data analysis and interpretation of study indicator results should include the following for each measurement period:

- Data presented clearly, accurately, and consistently in both table and narrative format.
- A clear and comprehensive narrative description of the data analysis process, including a comparison of the results to the goal and the type of statistical test completed. Statistical testing *p* value results should be calculated and reported to four decimal places (e.g., 0.0235).
- Discussion of any random, year-to-year variations; population changes; sampling errors; or statistically significant increases or decreases that occurred during the remeasurement process.
- A statement indicating whether or not factors that could threaten (a) the validity of the findings for each measurement period and/or (b) the comparability of measurement periods were identified. If there were no factors identified, this should be documented in Step VII.

Describe the data analysis process and provide an interpretation of the results for each measurement period.

Baseline Measurement:

For the Baseline Measurement period of 01/01/2018-12/31/2018, the total number of Medicaid Beneficiaries that were eligible to be included in the study were 1032. MSHN had a total of 543 beneficiaries (52.62%), out of the eligible 1032, have had a LDL-C and a HbA1c test performed during the baseline measurement year. MSHN's goal for Baseline to Remeasurement Period one is to increase the results by a 7%, to 56.30%, which is a 3.68% percentage point increase over the baseline rate of 52.62%.

For the Baseline Measurement period, rates were determined by dividing the number of those in the study population with the physical health service of interest (diabetes monitoring) by all those in the study population. Rates will be compared between measurement period using 2-proportion tests (95% two-sided confidence interval). Benchmark rates for the same HEDIS measure are available for a single year for Medicaid Health Plans in Michigan and will be used to compare to MSHN rates using 2-proportion tests (95% two-sided confidence interval).





for Region 5 - Mid-State Health Network

Step VII: Data Analysis and Interpretation of Study Results. Clearly document the results for each of the study indicator(s). Describe the data analysis performed and the results of the statistical analysis, and interpret the results. Through data analysis and interpretation, real improvement as well as sustained improvement can be determined.

The data analysis and interpretation of study indicator results should include the following for each measurement period:

- Data presented clearly, accurately, and consistently in both table and narrative format.
- A clear and comprehensive narrative description of the data analysis process, including a comparison of the results to the goal and the type of statistical test completed. Statistical testing p value results should be calculated and reported to four decimal places (e.g., 0.0235).
- Discussion of any random, year-to-year variations; population changes; sampling errors; or statistically significant increases or decreases that occurred during the remeasurement process.
- A statement indicating whether or not factors that could threaten (a) the validity of the findings for each measurement period and/or (b) the comparability of measurement periods were identified. If there were no factors identified, this should be documented in Step VII.

The following is a description of how the calculations for the project are determined:

(The denominator) The potentially eligible members will include those between the ages of 18 and 64, at of the end of the measurement period, who also satisfy the following:

- One, or both, of the following conditions during the measurement year:
 - o At least one acute inpatient encounter, with any diagnosis of schizophrenia
 - o At least two visits in an outpatient, intensive outpatient, partial hospitalization, ED or non-acute inpatient setting, on different dates of service, with any diagnosis of schizophrenia
- Members with diabetes, must be determined by the following (during the measurement year or the year prior to the measurement year)
 - o Claim/encounter data:
 - At least two outpatient visits, observation visits, ED visits or nonacute inpatient encounters, on different dates of service, with a diagnosis of diabetes. Visit type need not be the same for the two encounters
 - At least one acute inpatient encounter with a diagnosis of diabetes
 - o Pharmacy data:
 - Members who were dispensed insulin or oral hypoglycemic/anti-hyperglycemic on an ambulatory basis





for Region 5 - Mid-State Health Network

Step VII: Data Analysis and Interpretation of Study Results. Clearly document the results for each of the study indicator(s). Describe the data analysis performed and the results of the statistical analysis, and interpret the results. Through data analysis and interpretation, real improvement as well as sustained improvement can be determined.

The data analysis and interpretation of study indicator results should include the following for each measurement period:

- Data presented clearly, accurately, and consistently in both table and narrative format.
- A clear and comprehensive narrative description of the data analysis process, including a comparison of the results to the goal and the type of statistical test completed. Statistical testing *p* value results should be calculated and reported to four decimal places (e.g., 0.0235).
- Discussion of any random, year-to-year variations; population changes; sampling errors; or statistically significant increases or decreases that occurred during the remeasurement process.
- A statement indicating whether or not factors that could threaten (a) the validity of the findings for each measurement period and/or (b) the comparability of measurement periods were identified. If there were no factors identified, this should be documented in Step VII.

The eligible population (denominator), will be calculated by excluding the potential eligible members who meet the following conditions:

• Members with no more than one gap in enrollment of up to 45 days during the measurement year as determined by the 834-enrollment file. To determine continuous enrollment for a Medicaid beneficiary for whom enrollment is verified monthly, the member may not have more than a 1-month gap in coverage (i.e., a member whose coverage lapses for 2 months [60 days] is not considered continuously enrolled.

The progress of the eligible population (numerator), will be calculated by counting the members who meet the following condition:

• A HbA1c and LDL-C tests performed during the measurement year

Currently, there is no comparison of the results/changes between measurement periods. We have not completed the timeframe for remeasurement period one (01/01/19 to 12/31/2019) and therefore cannot compare rates using the 2-proportion tests.





for Region 5 - Mid-State Health Network

Step VII: Data Analysis and Interpretation of Study Results. Clearly document the results for each of the study indicator(s). Describe the data analysis performed and the results of the statistical analysis, and interpret the results. Through data analysis and interpretation, real improvement as well as sustained improvement can be determined.

The data analysis and interpretation of study indicator results should include the following for each measurement period:

- Data presented clearly, accurately, and consistently in both table and narrative format.
- A clear and comprehensive narrative description of the data analysis process, including a comparison of the results to the goal and the type of statistical test completed. Statistical testing *p* value results should be calculated and reported to four decimal places (e.g., 0.0235).
- Discussion of any random, year-to-year variations; population changes; sampling errors; or statistically significant increases or decreases that occurred during the remeasurement process.
- A statement indicating whether or not factors that could threaten (a) the validity of the findings for each measurement period and/or (b) the comparability of measurement periods were identified. If there were no factors identified, this should be documented in Step VII.

Baseline data will be compared to remeasurement period one following completion of the first year. Baseline and remeasurement period one data and remeasurement period one goal will then be compared to remeasurement period two after the close of the second year.

Data will be analyzed against the interventions and used to determine the most/least effective strategies. In areas where significant change has occurred, strategies and interventions that led to the increase will be analyzed. These techniques will be considered for implementation across the PIHP.

Currently only baseline data is available, therefore, there is no random variations, population changes, sampling errors or statistical significance discussion that can occur. This will be reviewed during the analysis of the remeasurement one period.

Additionally, there are no factors identified that threaten the internal or external validity of the findings. After a casual/barrier analysis is completed and the data is analyzed for remeasurement period 1, factors that threaten validity may be evident and will be assessed at that time. Any issues that cause errors or any statistically significant increases or decreases that may have occurred during the remeasurement process will be reviewed after the completion of remeasurement period one.

Baseline to Remeasurement 1:





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Step VII: Data Analysis and Interpretation of Study Results. Clearly document the results for each of the study indicator(s). Describe the data analysis performed and the results of the statistical analysis, and interpret the results. Through data analysis and interpretation, real improvement as well as sustained improvement can be determined.

The data analysis and interpretation of study indicator results should include the following for each measurement period:

- Data presented clearly, accurately, and consistently in both table and narrative format.
- A clear and comprehensive narrative description of the data analysis process, including a comparison of the results to the goal and the type of statistical test completed. Statistical testing p value results should be calculated and reported to four decimal places (e.g., 0.0235).
- Discussion of any random, year-to-year variations; population changes; sampling errors; or statistically significant increases or decreases that occurred during the remeasurement process.

	A statement indicating whether or not factors that could threaten (a) the validity of the findings for each measurement period and/or (b)
	the comparability of measurement periods were identified. If there were no factors identified, this should be documented in Step VII.
B	aseline to Remeasurement 2:

Baseline to Remeasurement 3:

Baseline to Final Remeasurement:





for Region 5 - Mid-State Health Network

Step VIII: Improvement Strategies (interventions for improvement as a result of analysis). Interventions are developed to address causes/barriers identified through a continuous cycle of data measurement and data analysis.

This step should include the following:

- Processes used to identify barriers/interventions.
- Processes used to prioritize barriers.
- Prioritized list of barriers with corresponding interventions.
- Processes used to evaluate the effectiveness each intervention and the evaluation results.
- For remeasurement periods, how evaluation and analysis results guided continuation, revision, or discontinuation of interventions.

Please describe the process used to identify barriers and develop corresponding interventions. Include the team/committee/group that conducted the causal/barrier analysis and the QI tools used to identify barriers, such as data mining, key driver diagram, fishbone diagram, process-level data, etc. Describe the process used to prioritize the barriers and designate high-priority barriers. Lastly, describe the process used to evaluate the effectiveness of each intervention. The documentation should be dated to identify when steps in the ongoing quality improvement process were initiated and revisited.

Describe the causal/barrier analysis process, quality improvement team consumers, and quality improvement tools:

The PIHP utilized the regional Quality Improvement Council and the regional Medical Directors group to identify region wide barriers to receiving a LDL-C and an HbA1c test as well as causal factors and interventions to overcome the barriers. The process used for the causal/barrier analysis was brainstorming and the completion of a Fishbone Diagram.

Each CMHSP reviewed their local baseline data and provided feedback regarding barriers to the PIHP using their local quality improvement process.

Describe the processes, tools, and/or data analysis results used to identify and prioritize barriers:

The PIHP utilized the Quality Improvement Council and regional Medical Directors group to identify and review the region wide barriers and causal factors. The barriers were prioritized based on the effort of and relevance to each CMHSP and potential impact on the outcome.

Describe the processes and measures used to evaluate the effectiveness of each intervention:

The interventions will be evaluated using the following methods:





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Step VIII: Improvement Strategies (interventions for improvement as a result of analysis). Interventions are developed to address causes/barriers identified through a continuous cycle of data measurement and data analysis.

This step should include the following:

- Processes used to identify barriers/interventions.
- Processes used to prioritize barriers.
- Prioritized list of barriers with corresponding interventions.
- Processes used to evaluate the effectiveness each intervention and the evaluation results.
- For remeasurement periods, how evaluation and analysis results guided continuation, revision, or discontinuation of interventions.

<u>Intervention 1</u>: Develop and provide a brief explanation document to the Primary Care Physicians and the CMHSP clinicians of when Protected Health Information (PHI) can be shared for the purposes of coordination of care, treatment and payment. Additionally, the MSHN Medical Director will provide education related to when Protected Health Information can be shared for the purposes of coordination of care, treatment and payment to the joint group of Medical Directors and Primary Care Physicians.

<u>Evaluation of Effectiveness:</u> The CMHSPs will track the number of physician offices that have received the brief explanation document of when PHI can be shared for the purposes of coordination of care, treatment and payment, and as a result have begun to share information and/or coordinate care.

<u>Intervention 2</u>: Implement process to improve transportation availability. This will include developing an information sheet to provide consumers at the time of their appointment with instructions for accessing transportation through what is available in each CMHSPs geographical location. This may vary by location but should include any of the following: list of vendors, process for scheduling transportation with the Department of Human Services, provision of bus tokens and/or vouchers, other transportation services based on each specific location.

<u>Evaluation of Effectiveness:</u> CMHSP will track who has received the transportation information. MSHN will identify via ICDP who has completed the lab work as ordered. The number of HbA1c and LDL-C claims will increase.





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Step VIII: Improvement Strategies (interventions for improvement as a result of analysis). Interventions are developed to address causes/barriers identified through a continuous cycle of data measurement and data analysis.

This step should include the following:

- Processes used to identify barriers/interventions.
- Processes used to prioritize barriers.
- Prioritized list of barriers with corresponding interventions.
- Processes used to evaluate the effectiveness each intervention and the evaluation results.
- For remeasurement periods, how evaluation and analysis results guided continuation, revision, or discontinuation of interventions.

<u>Intervention 3</u>: Implement process for labs services to be obtained onsite at the CMHSP location. This may include mobile lab, trained medical staff, on-site lab draw station.

<u>Evaluation of Effectiveness</u>: The CMHSPs will track the number of labs that have been completed utilizing the onsite lab option. The number of HbA1c and LDL-C will increase.

<u>Intervention 4</u>: CMHSP will utilize the care alerts to determine who does not have a claim for a completed lab. A record review is completed to identify if lab was ordered. If ordered is it in the record or can it be obtained. If the results are in the record and a claim was submitted to Medicare the CMHSP can enter "addressed" into ICDP.

<u>Evaluation of Effectiveness:</u> The CMHSPs will complete a record review of the individuals identified with an open care alert, indicating that a claim has not been submitted for a HbA1c and LDL-C. The CMHSP will indicate "addressed" within ICDP, for those individuals that have a lab result for the HbA1c and LDL-C present in the record. ICDP Report will indicate that claims have been "addressed" and primary source verification will occur during the delegated managed care review as needed to verify.





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Step VIII: Improvement Strategies (interventions for improvement as a result of analysis). Interventions are developed to address causes/barriers identified through a continuous cycle of data measurement and data analysis.

This step should include the following:

- Processes used to identify barriers/interventions.
- Processes used to prioritize barriers.
- Prioritized list of barriers with corresponding interventions.
- Processes used to evaluate the effectiveness each intervention and the evaluation results.
- For remeasurement periods, how evaluation and analysis results guided continuation, revision, or discontinuation of interventions.

Barriers/Interventions Table:

Use the table below to list barriers, corresponding intervention descriptions, intervention type, target population, and implementation date. For each intervention, select if the intervention was (1) new, continued, or revised, and (2) consumer, provider, or system. Update the table as interventions are added, discontinued, or revised.

Date Implemented (MM/YY)	Select if Continued, New, or Revised	Select if Consumer, Provider, or System Intervention	Priority Ranking	Barrier	Intervention That Addresses the Barrier Listed in the Previous Column
1/1/2019	New	Provider Intervention	1	Lack of Coordination occurring between the Primary Care Physician and the CMHSP-No process in place to communicate.	1. Develop and provide a brief explanation document to the Primary Care Physicians and the CMHSP clinicians of when Protected Health Information (PHI) can be shared for the purposes of coordination of care, treatment and payment. Additionally, the MSHN Medical





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Step VIII: Improvement Strategies (interventions for improvement as a result of analysis). Interventions are developed to address causes/barriers identified through a continuous cycle of data measurement and data analysis.

This step should include the following:

- Processes used to identify barriers/interventions.
- Processes used to prioritize barriers.
- Prioritized list of barriers with corresponding interventions.
- Processes used to evaluate the effectiveness each intervention and the evaluation results.
- For remeasurement periods, how evaluation and analysis results guided continuation, revision, or discontinuation of interventions.

					Director will provide education related to when Protected Health Information can be shared for the purposes of coordination of care, treatment and payment to the joint group of Medical Directors and Primary Care Physicians.
1/1/2019	New	System Intervention	2	Access to labs	2. Implement process to improve transportation availability. This will include developing an information sheet to provide consumers at the time of their appointment with instructions for accessing transportation through what is available in each CMHSPs geographical location. This may vary by location but should include any of the following: list of vendors,





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Step VIII: Improvement Strategies (interventions for improvement as a result of analysis). Interventions are developed to address causes/barriers identified through a continuous cycle of data measurement and data analysis.

This step should include the following:

- Processes used to identify barriers/interventions.
- Processes used to prioritize barriers.
- Prioritized list of barriers with corresponding interventions.
- Processes used to evaluate the effectiveness each intervention and the evaluation results.
- For remeasurement periods, how evaluation and analysis results guided continuation, revision, or discontinuation of interventions.

					process for scheduling transportation with the Department of Human Services, provision of bus tokens and/or vouchers, other transportation services based on each specific location.
1/1/2019	New	System Intervention	3	Access to labs	3. Implement process for labs services to be obtained onsite at the CMHSP location. This may include mobile lab, trained medical staff, onsite lab draw station.
1/1/2019	New	System Intervention	4	Information of completed labs not available.	4. CMHSP will utilize the care alerts to determine who does not have a claim for a completed lab. A record review is completed to identify if lab was ordered. If ordered is it in the record or can it be obtained. If the results are in the record and a claim





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Step VIII: Improvement Strategies (interventions for improvement as a result of analysis). Interventions are developed to address causes/barriers identified through a continuous cycle of data measurement and data analysis.

This step should include the following:

- Processes used to identify barriers/interventions.
- Processes used to prioritize barriers.
- Prioritized list of barriers with corresponding interventions.
- Processes used to evaluate the effectiveness each intervention and the evaluation results.
- For remeasurement periods, how evaluation and analysis results guided continuation, revision, or discontinuation of interventions.

		was submitted to Medicare the CMHSP can enter "addressed" into
		ICDP.

Report the evaluation results for each intervention and describe the steps taken based on the evaluation results. Was each intervention successful? How were successful interventions continued or implemented on a larger scale? How were less-successful interventions revised or discontinued?

Describe evaluation results for each intervention: At this time, we have not completed a measurement period that allows us to gauge the effectiveness of the interventions. This will be completed after remeasurement period one.

Describe next steps for each intervention based on evaluation results: