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# Conception to Implementation: Quality Improvement in Behavioral Health Home Organizations

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Conception to Implementation: Quality Improvement in Behavioral Health Home Organizations

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#### Abstract

This capstone project developed quality improvement tools to be used by community mental health agencies participating in the Maine Behavioral Health Homes Initiative. Providing technical assistance, analysis of feedback, and developing recommendations were the foundation of this project with a central tenet to enhance the existing *Quality Improvement Project Template* created by MaineCare, Maine's Medicaid Office. These recommendations suggest the *Quality Improvement Project Template* may be improved by providing an additional fillable quality improvement process outline, providing a list of example projects and focus areas for quality improvement projects, and providing tools to assist in implementation of quality improvement projects. These recommendations, if implemented, might improve the capacity of Maine Behavioral Health Homes through implementation of QI projects resulting in reducing avoidable emergency department utilization, avoidable hospitalizations, and the over-utilization of healthcare services.

Key words: Quality Improvement, Behavioral Health, Health Homes, Serious Mental Illness

#### **Capstone Project Purpose**

The purpose of this capstone project is to provide community mental health agencies, participating in the Maine Behavioral Health Home Organization initiative, with supporting material to develop, implement, and document required quality improvement (QI) projects. These organizations identified a need for additional support in establishing processes and infrastructure around quality improvement. This capstone project aims to add value to the quality improvement work of Behavioral Health Homes and add value to the efforts of MaineCare, Maine's Medicaid Office in supporting the Behavioral Health Homes initiative. Tools developed as a product of this capstone work will enhance the capacity of Maine Behavioral Health Homes to successfully plan and implement QI projects that align with reducing avoidable emergency department utilization, reducing avoidable hospitalizations, and the over-utilization of healthcare services (see Figure 1).

#### **Project Objectives**

- Assist a Maine Behavioral Health Home team to interpret and use the MaineCare *Quality Improvement (QI) Project Template for Maine Behavioral Health Homes*
- Collect and summarize recommendations from Maine Behavioral Health Homes to improve the MaineCare *QI Project Template*
- Develop a Quality Improvement Implementation Plan Template as a tool for Maine Behavioral Health Homes to use when they execute quality improvement projects.

#### **Learning Goals**

Through this project, I enhanced my knowledge, abilities, and skills in the following Public Health Program Core Competencies:

• Communication

- Leadership
- Health Policy and Management
- Informed Decision-Making

In addition, I improved my professional abilities in the following areas:

- Develop leadership skills in working with a team of community mental health agency staff
- Develop skills in using quality improvement tools
- Enhance skills in qualitative data collection and synthesis

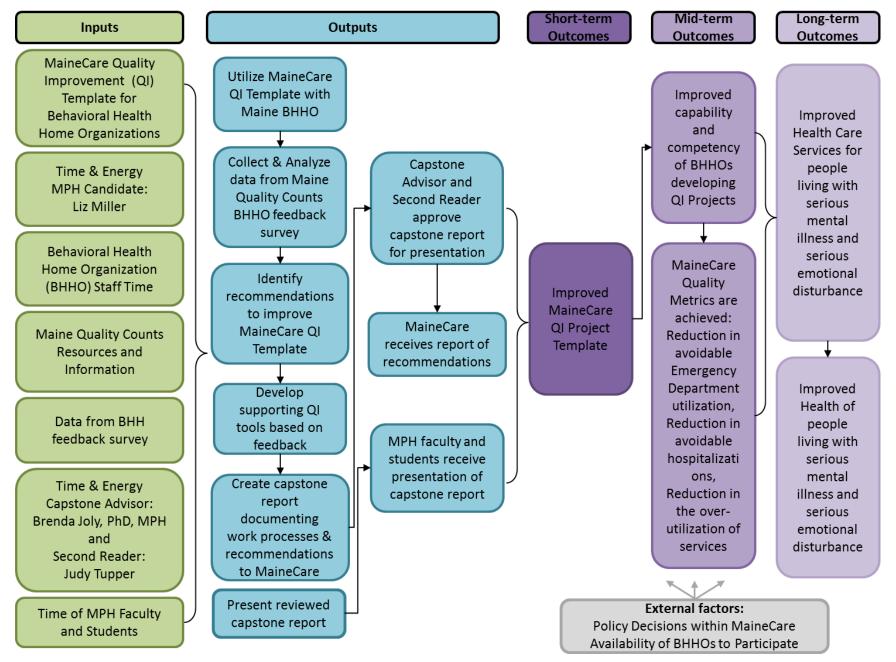


Figure 1: Logic Model of Conception to Implementation: Quality Improvement in Maine Behavioral Health Homes Project

#### **Quality Improvement in Health**

Quality improvement in health care is a series of systematic and continuous actions that lead to measureable improvements in health services provided and improvements in the health status of targeted populations (Health Resources and Services Administration, 2011). One of the most commonly recognized models for improvement in health care is the Plan-Do-Study-Act (PDSA) cycle. The PDSA cycle encourages individuals engaged in improvement efforts to plan their approach, try it, observe the results, and act on what is learned (Institute for Healthcare Improvement, 2015). Models like the PDSA cycle allow for a wide audience in health care to accept the culture change and movement in improving the quality of health in the country.

Health care delivery across the nation is undergoing a major transformation with the implementation of the Affordable Care Act (ACA) in 2010. Many initiatives are driving quality improvement within organizations through public reporting of performance measures. Other initiatives are focusing on reimbursing quality care and improving the coordination of care between providers by transitioning to monthly payment structures for patients from fee for services structures (Centers for Medicare & Medicaid Services [CMS], 2014). This work to improve quality in healthcare is necessary. Seven of the top ten diseases in the nation are the result of chronic conditions (Cono, 2014). Through an improved focus on prevention and evidence based practice in health care, deaths attributed to these chronic conditions, such as heart disease, stroke, and diabetes can be delayed. Of these populations, people living with serious mental illness die, on average, 25 years earlier than the general population (Maurer, 2006). In addition, it is projected that total Medicaid expenditures will continue to rise until they account for nearly 50% of the national health spending total by 2023 (CMS Expenditures, 2014).

There is a drive for all health care stakeholders to be involved in quality improvement, including consumers, caregivers, primary care providers, behavioral health professionals, payers, and educators, in an effort to improve health, health care, and prevention (Batalden, 2007). As a way to focus the conversation on how to improve these components, the Institute for Healthcare Improvement (IHI) developed the message of the Triple Aim: improving the individual experience of care; improving the health of the population; and reducing the per capita costs of care for populations (Berwick, 2008). The Institute of Medicine (IOM) recently published a report recommending that health communities identify measures of quality for leading causes of preventable deaths and major illnesses, aligning with Healthy People 2020 (Institute of Medicine, 2013). These forces have encouraged states, like Maine, to take on initiatives focusing on quality, such as Health Homes and Behavioral Health Homes as outlined in Section 2703 of the ACA.

#### **Quality Improvement and the Maine Behavioral Health Homes Initiative**

In April 2014, a select number of community mental health agencies were accepted by MaineCare, to provide a new holistic model of care that integrates mental health and physical health called Behavioral Health Home (BHH) services. These mental health agencies became known as Behavioral Health Home Organizations (BHHO) and provide integrated mental health services in partnership with primary care providers to MaineCare eligible adults living with a diagnosis of serious mental illness and children living with a diagnosis of serious emotional disturbance (Department of Health and Human Services [DHHS], 2014). According to the Office of MaineCare Services staff, in early March there were 25 BHHOs providing services to 1,537 adults and 285 children. Modeled after the national and Maine Patient Centered Medical Home models and aligning with the Triple Aim, the Maine Behavioral Health Homes initiative focuses on improving quality of care and improving population health, while reducing the cost of care. BHHOs are required through MaineCare to design, implement, and document a quality improvement project that demonstrates a commitment to reducing waste, unnecessary healthcare spending, and improving cost-effective use of healthcare services (DHHS, 2014). MaineCare developed the *Quality Improvement Project Template for Maine Behavioral Health Homes* (Appendix A) to aid BHHOs in the process of developing their quality improvement projects. BHHOs are required to use this template and document a quality improvement plan by April 1, 2015 (Maine Quality Counts, 2015).

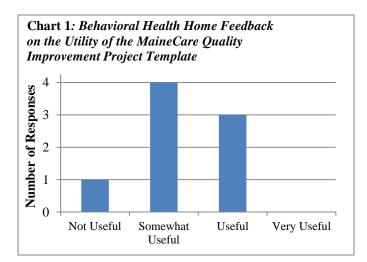
#### Methods to Develop Recommendations to Improve MaineCare QI Project Template

In order to provide recommendations to MaineCare on enhancing the *QI Project Template*, I chose to work with a Behavioral Health Homes Organization who used the template to develop a quality improvement process. United Cerebral Palsy (UCP) of Maine, a Behavioral Health Home Organization, accepted my offer in February 2015 to assist their team in walking through the elements to of the *QI Project Template* to develop their quality improvement project. In addition to this work, I connected with MaineCare's contractor, Maine Quality Counts, to attain feedback from other Behavioral Health Home Organizations on their use of the *QI Project Template*.

#### Feedback on Using the Quality Improvement Project Template

In my work providing support to UCP of Maine in using the *QI Project Template*, I quickly realized that more tools were necessary in order to develop a robust process, such as developing an aim statement. Using *Embracing Quality in Local Public Health: Michigan's* 

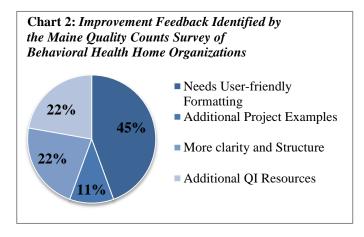
*Quality Improvement Guidebook*, I found a resource that was helpful in guiding the UCP Quality improvement team in developing an aim statement outline (Tews, Sherry, Butler, & Martin, 2008). The resource prompted UCP's team to identify an aim statement that was specific, measurable, achievable, relevant, and time-bound. The most notable utility of this tool was that it prompts the discussion of what is achievable for the team to accomplish for their quality improvement project. Also in my experience using the *QI Project Template* with UCP, the team noted that the tool did not provide a space to document the QI process. The team instead developed a table in a separate document, mimicking the format found in the *QI Project Template*. During the UCP team's development of their QI process, questions arose about next steps in implementing the process and how to use the Plan-Do-Study-Act cycle referenced in the *QI Project Template*. This prompted the creation of an implementation plan with the UCP team of their QI process.



In early April 2015, Maine Quality Counts distributed a survey to the 24 participating Behavioral Health Homes, soliciting their feedback on their use of the MaineCare *QI Project Template*. Maine Quality Counts received eight surveys for a 33% response rate. The majority of

respondents rated the QI Project Template as "Somewhat Useful" (See Chart 1).

This rating resonated with the qualitative responses on the template. The most useful components outlined in the *QI Project Template* indicated by respondents were the data source examples and expectations from MaineCare for the BHHO quality improvement projects. Other



comments focused on improvements to the *QI Project Template*. The most common comment identified the need for the template to have a fillable format to guide BHHOs in completing a QI Process. Additional comments included recommendations to provide resources and tools, such an action

plan, detail the concepts of quality improvement models with more clarity, and provide more relevant project examples (See Chart 2).

#### Recommendations to Improve the MaineCare Quality Improvement Project Template

1. Develop an additional Quality Improvement Project Tool that can be filled-in and used as a model (See Appendix B for a recommended tool)

The MaineCare *QI Project Template*, as indicated by the feedback from Behavioral Health Home Organizations, could be more useful if formatted in as fillable document. Currently the document offers guidance on MaineCare's expectations for the topic of quality improvement projects as well as provides examples within a framework that aligns with the Plan-Do-Study-Act cycle. These components are useful and should remain in the document, though as a recommendation, MaineCare should add an additional tool that BHHOs can use to fill out a quality improvement process. Using *Embracing Quality in Local Public Health: Michigan's Quality Improvement Guidebook*, I adapted a QI Team Charter tool to include components of the MaineCare *QI Project Template* (Tews, et al. 2008). This QI process outline is a resource that can assist Maine BHHOs by providing a structured, fillable format to document their QI projects, see Appendix B for this tool. 2. Provide a list of example projects and focus areas for quality improvement projects (See Appendix C for a recommended list)

The current *QI Project Template* separately identifies data sources and project examples in quality improvement for BHHOs to use. To improve these components of the *QI Project Template*, MaineCare could consider including a resource list that collectively identifies project examples and the related data sources that can support the improvement work for the Behavioral Health Home Organizations. A psychiatric consultant for the Maine Quality Counts' Behavioral Health Home Learning Collaborative developed an initial list of project examples and data sources. This original document provided the foundation for the list identified in Appendix C. I edited the content in the original list to provide up-to-date information of data sources.

#### 3. Provide tools to assist in the implementation of quality improvement projects for BHHOs

The final recommendation for the MaineCare to improve the *QI Project Template* is to include a resource to help Behavioral Health Home Organizations in implementing their quality improvement projects. Two Behavioral Health Home Organizations commented that an action plan would be a useful tool in their project implementation. The tool developed should align with the QI process outline and include enough detail to understand the tasks and timeline of the project.

In my work with UCP of Maine, I developed a Quality Improvement Project Implementation Plan Template to use as a tool with the current MaineCare *QI Project Template*. (See Appendix D). The Quality Improvement Implementation Plan Template follows a general action plan and includes categories that align with the QI Process Outline. This implementation plan template provides structure around the individuals involved in the QI project, the tasks to achieve the aim statement, and a structured timeline to work towards the aim. Because only one organization has tested this tool, I would encourage MaineCare or its contractor Maine Quality Counts to gather Behavioral Health Home Organizations' feedback on the tool prior to distribution.

#### **Knowledge Gained**

I have learned a great deal in my three years in the Master of Public Health program at the Muskie School of Public Service. Much of the knowledge I applied to my capstone project was gained through course work and course projects that expanded my thinking about how to improve the quality improvement tools and documentation provided in behavioral health settings. In reflecting on my work over the past 3 months, I feel confident I achieved my learning goals I set for this project which align with the four of the five public health program competencies.

<u>Learning Goal</u>: Develop leadership skills in working with a team of community mental health agency staff

# <u>Public Health Program Competencies</u>: Communication, Leadership, Health Policy and Management

I effectively provided technical assistance to a community mental health agency, UCP of Maine, in utilizing the MaineCare *QI Project Template*. Leading the effort of my capstone project, I set an appropriate timeline of objectives, tasks, and meetings dates required to complete my project and assist UCP of Maine develop their QI process within the set time constraints. I reflected on the course work from *MPH 575: Health Systems Organization and Management* co-instructed by Elise Bolda, Ph.D. and Stephen Loebs, Ph.D. to establish my leadership role as well as understand the organizational constraints on UCP of Maine as they were engaging with me to develop the QI Process and implementation plan. Also, my knowledge gained from *MPH 630: Health Planning & Marketing* instructed by Elise Bolda, Ph.D. and *MPH*  565: Social and Behavioral Health instructed by Brenda Joly, Ph.D., MPH provided a

framework for my communication around UCP of Maine's determined QI improvement project idea. I was able to provide constructive and useful feedback on the reality of what is achievable based on their situation in the Health System. In this same competency, I used my knowledge from *MPH 525: The American Health Care System* course instructed by Andy Coburn, Ph.D. and *MPH 681: Mental Health Policy*, instructed by David Lambert, Ph.D. to comprehend the concepts of the Health Home initiative in Maine and the role of community mental health agencies in this movement.

## <u>Learning Goal</u>: Develop skills in using Quality Improvement tools Public Health Program Competencies: Health Policy and Management

Due to my recent course work and knowledge gained in *MPH 670: Quality Improvement* instructed by Judy Tupper, DH.Ed., CHES, CPPS, I effectively utilized and adapted tools to enhance the current MaineCare *QI Project Template*. In addition, I used my enhanced skills from this course to apply a critical and constructive eye to the *QI Project Template* and to propose recommendations for improvement. Additionally, this course work provided framework for me to plan my capstone project around my intended audiences.

<u>Learning Goal</u>: Enhance skills in qualitative data collection and synthesis <u>Public Health Program Competencies</u>: Informed Decision-Making

My involvement with MPH 650: Applied Research and Evaluation in Public Health and PPM 606: Introduction to Survey Research helps lay the groundwork for analyzing and synthesizing qualitative data. I used my knowledge gained in these courses to develop useful and objective information to inform the recommendations to improve the MaineCare *QI Project Template*.

#### Conclusion

I achieved my primary objectives of providing hands on assistance to a community mental health agency, developing recommendations to MaineCare, and developing a Quality Implementation Plan Template to improve the work of the *Quality Improvement Project Template for Maine Behavioral Health Homes*. These recommendations to improve the template will enhance the guidance to Maine BHHOs in improving their healthcare services to reduce avoidable emergency department admissions, avoidable hospitalizations, and unnecessary healthcare spending. Maine Behavioral Health Homes, with the guidance and tools developed in this capstone, can build the capacity to improve health care service delivery for persons living with a diagnosis serious mental illness or serious emotional disturbance.

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## Appendix A

MaineCare Quality Improvement Project Template for Maine Behavioral Health Homes



# Quality Improvement Project Template for Maine Behavioral Health Homes

BHH Core Standard #9: Commitment to Reducing Waste, Unnecessary Healthcare Spending, and Improving Cost-Effective Use of Healthcare Services.

#### What does Quality Improvement Mean for Behavioral Health Home Teams?

Quality improvement is the practice of identifying and testing changes to enhance the physical and behavioral health outcomes of people receiving services.

Core expectation #9 requires BHHO providers to commit to reducing waste, unnecessary healthcare spending, and improving cost-effective use of healthcare services. Through this core standard, MaineCare requires BHHOs to *develop the capacity to use data to identify and implement quality improvement projects*. Quality improvement projects should align with key MaineCare objectives, including:

- 1. Reduction in unnecessary utilization of services
- 2. Reduction in avoidable emergency room use
- 3. Reduction in avoidable hospital admissions

"Alignment" means that project success would be expected to impact any of these three very broadly stated goals.

#### Criteria for Selecting Quality Improvement Projects for Maine Behavioral Health Homes (BHH)

BHHs should seek to address the needs of their community and unique population within criteria and processes outlined by MaineCare.

Projects should be:

- 1. Related to improving integration of physical health into behavioral health systems of care
- 2. Data driven: Data exists to support the goals and activities of the project:
  - a. BHH-generated, such as EHR data, internally-tracked data, etc.
  - b. MaineCare utilization data (HHES portal)
  - c. HealthInfoNet
  - d. Other, as defined.
- 3. Feasible/Actionable/Simple: Changes in processes of care are simple, clearly specified and actionable within BHH work flow
- 4. Where possible, identifying existing toolkits/manuals/educational materials that have been vetted by national or state quality improvement sources.

Organizations are encouraged to create projects that fulfill to other core expectations (such as Core Standard #6, integration with primary care, and/or Core Standard #3, population health management) and related initiatives, such as the BHH HIT initiative with HealthInfoNet.

#### QUALITY IMPROVEMENT IN BEHAVIORAL HEALTH

#### **Quality Improvement Documentation Tools**

BHH quality improvement projects should include the project goal and focus area, purpose of the project, plan of actions, and points of measurement for the outcomes of the project. The <u>Plan-Do-Study-Act Guide</u> from the Minnesota Department of Health provides a useful outline of the steps required to initiate a quality improvement project. The table below highlights key steps and provides some examples of projects that organizations could undertake using available data.

Focus Area	Aim Statement	Describe the problem	Analyze Data	Select One New Approach	Study	Act
Alignment with: 1. Reduction in unnecessary utilization of services 2. Reduction in avoidable emergency room use 3. Reduction in avoidable hospital admissions	<ol> <li>What are we trying to accomplish?</li> <li>How will we know that a change is an improvement?</li> <li>What change can we make that will result in improvement?</li> </ol>	Write a problem statement that clearly outlines the issue that the BHH hopes to improve; Include available data to describe the issue	Analyze data to identify potential causes for the problem and potential solutions: Is this a work flow issue? Is there a way to improve processes?	Identify alternative approaches: "if we do X, then we will get Y outcome" Use existing materials/ evidence- based approaches, where available	It's it working? Determine an appropriate cycle for reviewing data – monthly, quarterly?	Standardize or modify your approaches and implement improvements
Reduction in avoidable ED Use	For members with bronchitis, asthma, or COPD, BHH will reduce the number of ED visits associated with those conditions through improved chronic care management targeting these disorders. Improved care management will result in a reduction in BHH member use of the ED for these disorders. The BHH will implement the following specific process improvements	Per HHES data, XX number of BHH members used the ED in the last quarter for these conditions. These are chronic conditions, the management of which could be improved via targeted care management techniques.	Review HHES data and other sources as available (client surveys, EHR data, information from PCP offices, HIN, etc.) Based on data, refine issues and identify potential process/system changes: Identify major drivers of ED use across BHH population, e.g.) unmanaged chronic bronchitis or asthma; substance use, dental	Identify specific change to implement, e.g.: - Ensure a care plan from PCP or specialist is included in ISP - Provide targeted nurse care management services to members - Include in crisis plan - Education to members Connect members to existing resources for asthma or other disorder	Study at intervals consistent with chosen approach	Standardize Improvements Modify Approach Try a different approach
Reduction in avoidable hospital admission	<ol> <li>Reduce hospital admissions</li> <li>Reduction in # of hospital admissions for BHHO members</li> <li>Possible Changes:         <ul> <li>a. Improve Chronic Care management</li> <li>b. Promote better coordination with primary care</li> </ul> </li> </ol>	members hospitalized due to chronic conditions and lack of care coordination/support Identify and use data to define problem and develop project: BHH internal data (EHR, spreadsheets, etc.) or data available in the HHES portal	Identify drivers of hospital use; chronic conditions, mental health, substance use	Nurse care manager coordinates with primary care and supports consumer on chronic illness self- care, such as Diabetes Self- Management classes (or Asthma, or COPD, etc.) Group outreach/education on managing chronic illness using evidence-based curriculum Peer support in establishing, maximizing PCP relationship All members up to date on well child visits	Study at intervals consistent with chosen approach: Review data at 3 months, 6 months, 9 months	Standardize Improvements Modify Approach Try a different approach

#### Additional ideas for projects:

- Identify members with high BMI and link consumers to programs to address weight gain
- Assure recommended testing for glucose and lipids;
- Coordination with PCP to support consumers in chronic conditions medication adherence
- Linkage to CDC smoking hot line; linkage to CDC smoking cessation programming; training BHH staff to provide smoking cessation in-house
- Educate consumers and primary care on risk from antipsychotic medication; linkage to interventions to address high lipids and weight gain

Appendix B

Maine Behavioral Health Homes QI Process Outline

Maine Behavioral Health Homes QI Process Outline										
1. BHHO Name:										
2. Focus Area: Reduction in unnecessary utilization of services Reduction in avoidable emergency room use	Reduction in avoidable hospital admissions									
3. Problem/Opportunity Statement (How do you know you can improve?):										
4. AIM Statement(s): (Click Here to Access a Tool to Develop an AIM Statement)										
5. Target Population (Who are you trying to Reach?):										
6. Success Measures (What does success look like? What data are you collecting to	show your success?):									
7. Considerations (Assumptions/Constraints/Obstacles):										
8. Plan-Do-Study-Act (PDSA) Timeline: ( <u>Click Here to Access an Implementation Pla</u>	n Template)									
<b>Plan:</b> Plan the test or observation, including a plan for collecting data	<u> </u>									
<b>Do:</b> Try out the test on a small scale										
<b>Study:</b> Set aside time to analyze the data and study the results										
Act: Refine the change, based on what was learned from the test										
9. BHH Team Leader:										
10. QI Team Leader:										
11. Team Members: Role:										
12. Meeting Frequency:										
13. Communication Plan (Who, How, and When):										
13. Communication Plan (Who, How, and When):										
13. Communication Plan (Who, How, and When):										
13. Communication Plan (Who, How, and When):         14. Improvement Theories (if we do X then Y will result):										
14. Improvement Theories (if we do X then Y will result):										

Appendix C

Potential Behavioral Health Homes (BHH) Quality Improvement Projects

#### Potential Behavioral Health Homes (BHH) Quality Improvement Projects

1. Projects directly a	nd concretely focused	on reducing emergen	icy department or hos	pital utilization.

Project	Data Source	Process Change	Tools	Pros	Cons
Reduce Emergency	Identify High Users	Create processes for	Educational	Data readily	May be difficult to
Department (ED)	from MaineCare	consumers to access	materials from	available to all	"sell" since
Use	Health Home Portal	primary care	AHRQ on	BHH; MaineCare	relationship to
		instead of	ambulatory	members with BH	improved quality
		historically	sensitive	disorders have	unclear for
		automatic referral	conditions.	higher rates of ED	consumers with
		to ER; identify	Materials from	use than those with	high levels of
		visits considered	MaineCare ED	no BH diagnosis;	medical
		ambulatory	Reduction Project		comorbidity; many
		sensitive	on self-care for		factors outside of
		conditions; address	unnecessary ED		control of BHH
		barriers to	visits		contributes to high
		accessing primary			use (e.g.
		care; coordinate			transportation,
		with primary care			primary care access
		to address gaps in			)
		care			-
Reduce 30 day re-	HealthInfoNet	Improve transitions	Educational	Evidence for utility	Data currently
hospitalization by	notification to BHH	of care in	materials, plan for	in reducing re-	available to BHH
improving	of current	coordination	process change are	hospitalization.	HealthInfoNet State
transitions of care	hospitalization		available from		Innovation Model
			Maine Quality		(SIM) grant
			Counts		recipients

2. Projects that improve chronic disease care, reducing disability and complications from chronic disease, thereby reducing need for emergency department and hospital use for these chronic conditions; supports integration with primary care; supports increased knowledge about chronic disease self-care; reduces premature mortality

ProjectDataProcess ChangeToolsProsCons
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In a second to atime of	Maine Cana David		Materiala fuera	A second al DCMII	Duccess
Improve testing for	MaineCare Portal	Coordinate with	Materials from	Accepted PCMH	Process measure;
lipids and	identifies those	primary care;	most providers and	and HEDIS goals.	assumes having test
Hemoglobin A1c	with no	support consumers	American Diabetes	Data available to all	done results in
for members with	Hemoglobin A1c in	on diabetes self-	Association on self-	BHH; improves	remedial action
Diabetes	last quarter; no	care; coordinate	care for diabetes;	knowledge about	
	lipid test in past	with community	Diabetes self-	diabetes care	
	year	supports (Diabetes	management and	(diabetes a major	
		Self-Management	Living Well with	issue for BHH	
		classes)	Chronic Disease	population, risk for	
			classes	disability and early	
				death)	
Reduce number of	HealthInfoNet lab	Coordinate with	Materials on self-	Evidence based:	Limited to BHH with
members whose	result data	primary care;	care from a variety	better glucose	access to
Hemoglobin A1C	(see example)	support consumers	of national and	control means	HealthInfoNet
is greater than 8		on diabetes self-	local sources; many	better diabetes	
(identifies those		care; coordinate	community	outcomes and less	
with undiagnosed		with community	resources for	complications	
diabetes, those with		supports (Diabetes	improving diabetes		
diagnosed diabetes		Self-Management	self-care – Diabetes		
but not in control)		classes)	Self-Management		
			Education, Living		
			Well with Chronic		
			Disease		
Increase number of	Blood Pressure	Coordination with	Well-developed	Supports BHH	Direct measurement
members whose	measured directly	primary care to	materials from	doing direct	adds burden to BHH
Blood Pressure is	by BHH staff	provide medication;	National Institutes	measurement;	but Quality
<140		support for	of Health, Centers	Allows "in the	Improvement
		consumers in	for Disease Control	moment"	process initially
		medication	and Prevention etc.	conversation	might be limited to
		adherence,	for consumers and	between BHH staff	just taking and
		increased exercise,	workforce on	and consumer;	recording Blood
		improved nutrition	Blood Pressure	supports insertion	Pressure
		etc.	Control	of health topics into	

				BHH records	
Increase number of children with asthma who are on controller inhalers	Obtain child data from primary care reports to primary care; MaineCare services data could be added to portal	Coordination with primary care for increased awareness of self- care measures for asthma control	Well-developed materials available	Asthma is a major chronic issue for both children and adults and cause for ED visits	Must have processes in place to share info between Primary Care and BHH

# 3. Projects that reduce health risk for which there is firm evidence that health will be improved and chronic disease reduced, which should have an impact on hospital and emergency department use, but only in the very long term.

Project	Data	Process Change	Tools	Pros	Cons
Reduce % of members who smoke; increase number of smokers engaged in smoking cessation programming	Direct assessment by BHH	Smoke-free campus; Linkage to Centers for Disease Control and Prevention (CDC) smoking hot line; linkage to CDC smoking cessation programming; training BHH staff to provide smoking cessation in-house	Well developed in Maine by CDC	50% of consumers with SMI are smokers; Smoking a major risk for heart disease, stroke, diabetes, early death	Requires direct assessment and systems for entry into BHH Health Record; requires reporting from BHH to MaineCare
Increase number of members whose lipids are in appropriate range	HealthInfoNet lab data	Coordinate with consumers and primary care to increase number of consumers who are receiving and adherent to lipid lowering medication	Numerous national Centers for Disease Control and Prevention and National Institutes of Health materials on lipids	Applies to a broad population of consumers (not merely those with diabetes); data shows that BH population has high lipid levels and low levels of statin use; major risk factor	Limited to BHH with access to HealthInfoNet

				for diabetes, heart disease, stroke	
Increase percentage of children receiving annual preventive dental care		Identify as Service Plan Goal; Support families in accessing dental care for children		MaineCare reimburses child dental services; addressing issue in childhood will reduce dental issues in adults	Undetermined data source
Increase dissemination in Let's Go! Maine 5- 2-1-0 program to reduce childhood obesity	Child BMI. Collected at agency or from primary care	Insert as goal in treatment planning; review progress regularly;	Let's Go Maine materials and trainings	Let's Go Materials are easily accessible and are connected with primary care initiatives	Must collect data at BHH or have processes in place to share information between primary care and BHH

Appendix D Quality Improvement Implementation Plan

## **Quality Improvement Implementation Plan**

This template is designed to help your team have a successful QI project. It incorporates the Plan-Do-Study-Act cycle steps and provides a structure for you and your team to complete key tasks within your timeframe of your project.

	BHHO Name:								
C	I Project Title:								
BHH	I Team Leader:								
Q	Team Leader:								
QI Pro	oject Duration:								
QI A	IM Statement:								
PDSA Cycle	Objective	Tasks	Person(s) Responsible	Start Date	Completion Date	Team Meeting Date	Resources Needed (if applicable)	Success Measures (if applicable)	Notes
	What are you trying t achieve	What needs to be done to meet your objective	Who is responsible for completing the task	When will the task start	When should the task be done	What date will your team meet to talk about this task	Are there resources you need to complete the task	How will you know your task was a success	Mark additional actions needed, missed deadlinesetc.
Cycle 1									
Plan									
Do									
00									
Study									
Act Cycle 2									
Plan									
Do									
Church									
Study									

## **Quality Improvement Implementation Plan**

## **EXAMPLE**

B	HHO Name:	Believi	ng in Holistic Health Organization (	ВННО)						
Р	roject Title:	Increas	sing Awareness of Alternative Optic	ons to the Emergency	y Department f	or BHH Clients				
BHH Te	am Leader:	: Sadel Davis								
QI Te	am Leader:	er: Doris Skarka								
QI Proie	ct Duration:									
QI AIM Statement: By January 2016, only 18% of BHHO's BHH Clients have visited the Emergency Department at least once for a low to moderate severity reason. SUB AIM: 60% of BHHO's BHH Clients who have visited the Emergency Department (ED) at least once for a low to moderate severity reason in 2014 will aware of their alternative ED options by January 2016.								port being more		
PDSA Cycle			Actions	Person(s) Responsible	Start Date	Completion Date	Team Meeting Date	Resources Needed (if applicable)	Success Measures (if applicable)	Notes
Indicate which PDSA Cycle the actions are supporting	What's the overall topic		What Steps need to be done to meet your objective	Who is responsible for completing the action	When will the action start	When should the action be done	What date will your team meet to talk about this action	Are there resources you need to complete the action	How will you know your action was a success	Mark additional actions needed, missed deadlinesetc.
Cycle 1										
Plan	Baseline Data Collection		Distribute survey to BHH Clients to collect baseline on awareness levels	All Health Home Coordinators	4/1/2015	4/30/2015	5/4/2015	Printed Surveys	30 surveys distributed	
			Collect surveys from BHH Clients	All Health Home Coordinators	4/1/2015	4/30/2015	5/4/2015		30 surveys collected	
			Develop database and analyze survey data	Nurse Care Manager	4/1/2015	5/8/2015	5/11/2015		Database developed	
Do	Increase Aware	ness #1	Research client's nearby resources for alternative ED options	All Health Home Coordinators	5/1/2015	8/1/2015	8/3/2015	Research on client's nearby resources	30 specific info sheets for clients	
			At Client's Plan of Care discussion, refer to the Health Guidebook and specific resources as alternative ED options	All Health Home Coordinators	5/1/2015	8/1/2015	8/3/2015	Health Guidebooks	30 Plan of Care visits	May need to print extra Health Guidebooks
Study	Comparison Data Collection		Distribute survey to BHH Clients to see if change in awareness levels	All Health Home Coordinators	8/1/2015	8/31/2015	9/7/2015	Printed Surveys	30 surveys distributed	
			Collect surveys from BHH Clients	All Health Home Coordinators	8/1/2015	8/31/2015	9/7/2015			
			Analyze survey data and compare to baseline	Nurse Care Manager	8/1/2015	9/4/2015	9/7/2015		Comparison report on awareness data	
Act Cycle 2										
Plan	Increase Aware	ness #2								