



CO L O R A D O

**Department of Health Care
Policy & Financing**

Health First Colorado
Community Mental Health Services Program

Fiscal Year 2016–2017 PIP Validation Report

Adolescent Depression Screening and Transition of Care to a Behavioral Health Provider

for

Access Behavioral Care—Northeast

April 2017

For Validation Year 3

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Colorado Department of Health Care Policy & Financing.*



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1. Background

The Balanced Budget Act of 1997 (BBA), Public Law 105-33, requires that states conduct an annual evaluation of their managed care organizations (MCOs) and prepaid inpatient health plans (PIHPs) to determine the MCOs' and PIHPs' compliance with federal regulations and quality improvement standards. According to the BBA, the quality of health care delivered to Medicaid members in MCOs and PIHPs must be tracked, analyzed, and reported annually. The Colorado Department of Health Care Policy & Financing (the Department) has contractual requirements with each MCO and behavioral health organization (BHO) to conduct and submit performance improvement projects (PIPs) annually.

As one of the mandatory external quality review activities under the BBA, the Department is required to validate the PIPs. To meet this validation requirement, the Department contracted with Health Services Advisory Group, Inc. (HSAG), as the external quality review organization. The primary objective of the PIP validation is to determine compliance with requirements set forth in the Code of Federal Regulations (CFR) at 42 CFR §438.240(b)(1), including:

- Measurement of performance using objective quality indicators.
- Implementation of system interventions to achieve improvement in quality.
- Evaluation of the effectiveness of the interventions.
- Planning and initiation of activities to increase or sustain improvement.

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 evaluates the following components of the quality improvement process:

1. The technical structure of the PIPs to ensure the BHO designed, conducted, and reported PIPs using sound methodology consistent with the CMS protocol for conducting PIPs. HSAG's review determined whether a PIP could reliably measure outcomes. Successful execution of this component ensures that reported PIP results are accurate and capable of measuring real and sustained improvement.
2. The outcomes of the PIPs. Once designed, a PIP's effectiveness in improving outcomes depends on the systematic identification of barriers and the subsequent development of relevant interventions. Evaluation of each PIP's outcomes determined whether the BHO improved its rates through the implementation of effective processes (i.e., barrier analyses, intervention design, and evaluation of

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: <http://www.medicare.gov/Medicare-CHIP-Program-Information/By-Topics/Quality-of-Care/Quality-of-Care-External-Quality-Review.html>. Accessed on: Feb 19, 2013.

results) and, through these processes, achieved statistically significant improvement over the baseline rate. Once statistically significant improvement is achieved across all study indicators, HSAG evaluates whether the BHO was successful in sustaining the improvement. The goal of HSAG’s PIP validation is to ensure that the Department and key stakeholders can have confidence that reported improvement in study indicator outcomes is supported by statistically significant change and the BHO’s improvement strategies.

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 fiscal year (FY) 2016–2017, **Access Behavioral Care—Northeast (ABC-NE)** continued its *Adolescent Depression Screening and Transition of Care to a Behavioral Health Provider* PIP. The topic selected addressed CMS’ requirements related to quality outcomes—specifically, the timeliness of, and access to, care and services.

PIP Summary

For the FY 2016–2017 validation cycle, the PIP received an overall validation score of 100 percent and a *Met* validation status. The focus of the PIP is to improve the percentage of adolescent members who complete a follow-up visit with a behavioral health provider within 30 days of screening positive for depression with a medical provider. The PIP had one study question that **ABC-NE** stated: “Do targeted interventions increase the percentage of adolescents who screened positive for depression with a medical provider and who completed a follow-up visit with a behavioral health provider within 30 days?” The following table describes the study indicator for this PIP.

Table 1–1—Study Indicator

PIP Topic	Study Indicator
<i>Adolescent Depression Screening and Transition of Care to a Behavioral Health Provider</i>	The percentage of eligible adolescent members who screened positive for depression with a medical health provider and completed a follow-up visit with a behavioral health provider within 30 days.

Validation Overview

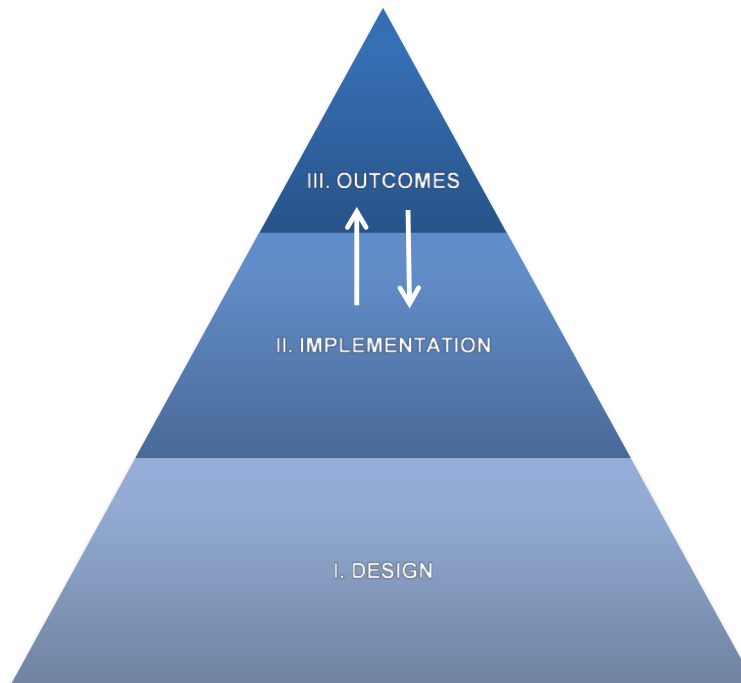
HSAG obtained the information needed to conduct the PIP validation from **ABC-NE**'s PIP Summary Form. This form provided detailed information about the BHO's PIP related to the activities completed and HSAG evaluated for the FY 2016–2017 validation cycle.

Each required activity was evaluated on one or more elements that form a valid PIP. The HSAG PIP Review Team scored each evaluation element within a given activity as *Met*, *Partially Met*, *Not Met*, *Not Applicable*, or *Not Assessed (NA)*. HSAG designated some of the evaluation elements pivotal to the PIP process as critical elements. For a PIP to produce valid and reliable results, all critical elements had to be *Met*. Given the importance of critical elements to the scoring methodology, any critical element that received a *Not Met* score resulted in an overall validation rating for the PIP of *Not Met*. A BHO 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 provided a *Point of Clarification* 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 gave each PIP an overall percentage score for all evaluation elements (including critical elements). HSAG calculated 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 calculated 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*.

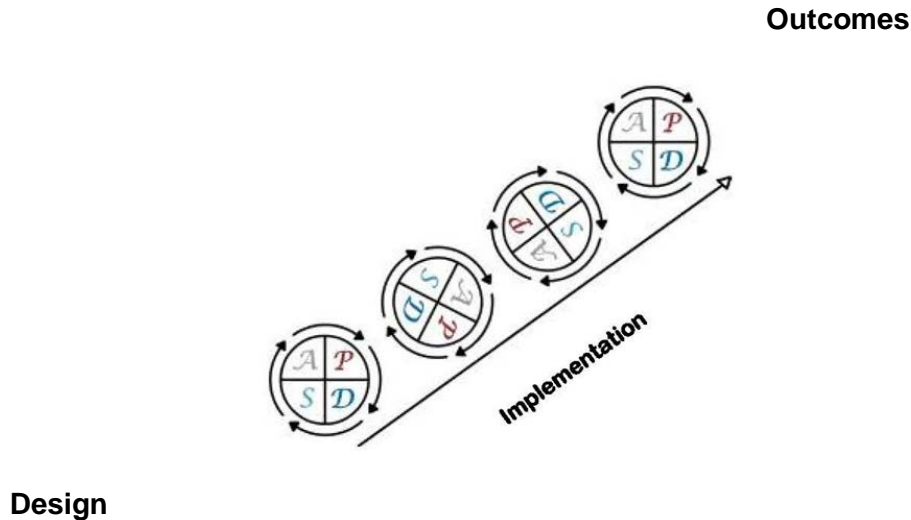
Figure 1–1 illustrates the three study stages of the PIP process—i.e., Design, Implementation, and Outcomes. Each sequential stage provides the foundation for the next stage. The Design stage establishes the methodological framework for the PIP. The activities in this section include development of the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

Figure 1-1—PIP Stages



Once **ABC-NE** establishes its study design, the PIP process moves into the Implementation stage. This stage includes data analysis and interventions. During this stage, the BHOs analyze data, identify barriers to performance, and develop interventions targeted to improve outcomes. The BHOs should incorporate a continuous or rapid cycle improvement model such as the Plan-Do-Study-Act (PDSA) to determine the effectiveness of the implemented interventions. The implementation of effective improvement strategies is necessary to improve PIP outcomes.

Figure 1–2—PIP Stages Incorporating the PDSA Cycle



The PDSA cycle includes the following actions:

- **Plan**—conduct barrier analyses; prioritize barriers; develop targeted intervention(s) to address barriers; and develop an intervention evaluation plan for each intervention
- **Do**—implement intervention; track and monitor the intervention; and record the data
- **Study**—analyze the data; compare results; and evaluate the intervention’s effectiveness
- **Act**—based on the evaluation results, standardize, modify, or discontinue the intervention

The final stage is Outcomes, which involves the evaluation of real and sustained improvement based on reported results and statistical testing. Sustained improvement is achieved when outcomes exhibit statistical improvement over time and multiple measurements. This stage is the culmination of the previous two stages. The BHO should regularly evaluate interventions to ensure they are having the desired effect. A concurrent review of the data is encouraged. If the BHO’s evaluation of the interventions, and/or review of the data, indicates that the interventions are not having the desired effect, the BHO should revisit its causal/barrier analysis process; verify the proper barriers are being addressed; and discontinue, revise, or implement new interventions as needed. This cyclical process should be used throughout the duration of the PIP and revisited as often as needed.

2. Findings

This year, the PIP validation process evaluated the technical methods of the PIP (i.e., the study design), as well as the implementation of quality improvement activities. Based on its 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 BHO’s update of a previously submitted PIP with modified/additional documentation.

BHOs have the opportunity to resubmit the PIP after HSAG’s initial validation to address any deficiencies identified. The PIP received a *Partially Met* overall validation status when originally submitted. The BHO had the opportunity to receive technical assistance, incorporate HSAG’s recommendations, and resubmit the PIP. After resubmission, the PIP received a *Met* score for 100 percent of the evaluation elements and a *Met* overall validation status.

Table 2–1—FY 2016–2017 Performance Improvement Project Validation for Access Behavioral Care—Northeast

Name of Project	Type of Annual Review ¹	Percentage Score of Evaluation Elements <i>Met</i> ²	Percentage Score of Critical Elements <i>Met</i> ³	Overall Validation Status ⁴
<i>Adolescent Depression Screening and Transition of Care to a Behavioral Health Provider</i>	Submission	65%	67%	<i>Partially Met</i>
	Resubmission	100%	100%	<i>Met</i>

¹ **Type of Review**—Designates the PIP review as an annual submission, or resubmission. A resubmission means the BHO 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.

Validation Findings

Table 2–2 displays the validation results for the **ABC-NE** PIP validated during FY 2016–2017. This table illustrates the BHO’s overall application of the PIP process and achieved success in implementing the studies. Each activity 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 activity. Additionally, HSAG calculated a score for each stage and an overall score across all activities. This was the third validation year for the PIP, with the BHO completing Activities I through VIII.

Table 2–2—Performance Improvement Project Validation Results for Access Behavioral Care—Northeast

Stage	Activity		Percentage of Applicable Elements*		
			Met	Partially Met	Not Met
Design	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)
	III.	Correctly Identified Study Population	100% (1/1)	0% (0/1)	0% (0/1)
	IV.	Clearly Defined Study Indicator(s)	100% (2/2)	0% (0/2)	0% (0/2)
	V.	Valid Sampling Techniques (if sampling was used)	<i>Not Applicable</i>	<i>Not Applicable</i>	<i>Not Applicable</i>
	VI.	Accurate/Complete Data Collection	100% (3/3)	0% (0/3)	0% (0/3)
Design Total			100% (9/9)	0% (0/9)	0% (0/9)
Implementation	VII.	Sufficient Data Analysis and Interpretation	100% (3/3)	0% (0/3)	0% (0/3)
	VIII.	Appropriate Improvement Strategies	100% (5/5)	0% (0/5)	0% (0/5)
Implementation Total			100% (8/8)	0% (0/8)	0% (0/8)
Outcomes	IX.	Real Improvement Achieved	<i>Not Assessed</i>	<i>Not Assessed</i>	<i>Not Assessed</i>
	X.	Sustained Improvement Achieved	<i>Not Assessed</i>	<i>Not Assessed</i>	<i>Not Assessed</i>
Outcomes Total			<i>Not Assessed</i>	<i>Not Assessed</i>	<i>Not Assessed</i>
Percentage Score of Applicable Evaluation Elements Met			100% (17/17)	0% (0/17)	0% (0/17)

* Percentage totals may not equal 100 due to rounding.



Overall, 100 percent of all applicable evaluation elements validated received a score of *Met*. For this year's submission, the Design stage (Activities I through VI) and the Implementation stage (Activities VII through VIII) were validated.

Design

ABC-NE 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.

Implementation

ABC-NE was unable to report a baseline study indicator rate for calendar year (CY) 2014 because the study indicator's denominator was zero. For this year's validation, the BHO was able to calculate and report a baseline study indicator rate for CY 2015. The BHO used appropriate quality improvement tools to conduct its causal/barrier analysis, prioritized barriers, and implemented interventions that have the potential to have a positive impact on the study indicator outcomes. The BHO implemented some passive interventions, such as newsletters and flyers, in addition to more active interventions; however, the BHO documented the rationale for including the passive interventions to support more active interventions going forward.

Outcomes

The PIP had not progressed to the Outcomes stage during this validation cycle because the BHO reported only baseline study indicator results. The Outcomes stage will be evaluated during next year's validation cycle, when the BHO reports results from the first remeasurement.

Analysis of Results

Table 2–3 displays baseline data for **ABC-NE's *Adolescent Depression Screening and Transition of Care to a Behavioral Health Provider*** PIP. The BHO repeated the baseline measurement period in CY 2015 because it was unable to calculate a baseline rate in 2014.

**Table 2–3—Performance Improvement Project Outcomes
for Access Behavioral Care—Northeast**

PIP Study Indicator	Baseline Period ¹ (1/1/2015–12/31/2015)	Remeasurement 1 (1/1/2016–12/31/2016)	Remeasurement 2 (1/1/2017–12/31/2017)	Sustained Improvement
The percentage of eligible adolescent members who screened positive for depression with a medical health provider and completed a follow-up visit with a behavioral health provider within 30 days.	0.0%			

¹ The BHO was unable to report a baseline study indicator result using data from 2014; therefore, the baseline period was shifted to CY 2015.

The baseline rate of adolescent members who screened positive for depression with a medical provider and received a follow-up visit with a behavioral health provider within 30 days was 0.0 percent. The BHO set a goal of 15.0 percent for the Remeasurement 1 period.

Barriers/Interventions

The identification of barriers through causal barrier analysis and the subsequent selection of appropriate interventions to address these barriers are necessary steps to improve outcomes. The BHO’s choice of interventions, combination of intervention types, and sequence of implementing the interventions are essential to overall success in improving PIP outcomes.

For the *Adolescent Depression Screening and Transition of Care to a Behavioral Health Provider* PIP, **ABC-NE** identified barriers to a successful transition of care:

- Incorrect provider coding and billing practices for depression screening.
- Provider challenges in navigating the behavioral health system.
- Lack of an established workflow process following a positive depression screen.
- Reduced likelihood of receiving claims for transition of care services from an increasing number of co-located medical and behavioral health providers.

To address these barriers, **ABC-NE** implemented the following interventions:

- Online provider newsletters providing information on available behavioral health resources and crisis centers. The BHO sent monthly online RCCO (Regional Care Collaborative Organization) News Flashes to primary care providers, community organizations, hospitals, and specialists to update RCCO providers on current local resources for integrated physical and behavioral healthcare, crisis referral resources, and BHO contact information.

- Creation of a Depression Screening Clinic Workflow tool that medical clinics could adopt to standardize and refine the process for responding to positive depression screenings and referring to behavioral health providers. The workflow tool was distributed to stakeholder groups as a resource for improving the depression screening and care transition process.
- A webinar about Colorado Crisis Services hosted by the collaborating RCCO in the BHO's service area.
- A provider and community forum providing organizations and stakeholders with information on Colorado Medicaid behavioral health systems, best practices and current efforts to integrate care, and a behavioral health panel discussion.

3. Conclusions and Recommendations

Conclusions

ABC-NE designed a methodologically sound project. The sound PIP study design allowed the BHO to progress to the Implementation stage of the PIP process. The BHO reported CY 2015 baseline study indicator results for the current validation cycle because a baseline rate for CY 2014 could not be calculated with a denominator of zero. The BHO continued causal/barrier analysis during the updated baseline measurement period, which included discussions and brainstorming by key stakeholders. The BHO and other stakeholders revisited and updated the key driver diagram and barrier prioritization tool based on ongoing barrier analyses conducted during CY 2015. The outcomes of the **ABC-NE** PIP will be evaluated during the next validation cycle when the BHO reports results of the first remeasurement.

Recommendations

As the PIP progresses, HSAG recommends that the BHO:

- Continue to collect supplemental self-reported data from federally qualified health center (FQHC) partners to monitor whether providers are consistently submitting claims for depression screening and behavioral health visits. While **ABC-NE** should maintain consistent administrative data collection methods for each annual measurement of the study indicator rate, the BHO can incorporate supplemental data analysis into the narrative interpretation of its study indicator results.
- Evaluate the effectiveness of each implemented intervention. Obtaining evaluation results for each intervention will allow the BHO to make data-driven decisions about which interventions have the greatest impact on the study indicator and how best to direct resources to achieve optimal improvement.
- Use quality improvement science techniques such as the Plan-Do-Study-Act (PDSA) model to evaluate and refine its improvement strategies. Interventions can be tested on a small scale, evaluated, and then expanded to full implementation, if deemed successful.
- Seek technical assistance from HSAG as needed.