



CHIP+

Child Health Plan *Plus*

Colorado Children's Health Insurance Program

Fiscal Year 2018–2019 PIP Validation Report

for

Friday Health Plans of Colorado

April 2019

This report was produced by Health Services Advisory Group, Inc. for the Colorado Department of Health Care Policy & Financing.



Table of Contents

1. Executive Summary	1-1
PIP Components and Process	1-2
Approach to Validation	1-3
Validation Scoring.....	1-4
PIP Topic Selection	1-4
2. Findings	2-1
Validation Findings	2-1
Module 1: PIP Initiation and Module 2: SMART Aim Data Collection.....	2-1
3. Conclusions and Recommendations	3-1
Conclusions	3-1
Recommendations	3-1
Appendix A. Module Submission Forms	A-1
Appendix B. Module Validation Tools	B-1



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1. Executive Summary

The Code of Federal Regulations at 42 CFR Parts 438 and 457—managed care regulations for Medicaid and the Children’s Health Insurance Program (CHIP), with revisions released May 6, 2016, and effective July 1, 2017, for Medicaid managed care and July 1, 2018, for CHIP managed care require states that contract with managed care health plans (health plans) to conduct an external quality review (EQR) of each contracting health plan. Health plans include managed care organizations (MCOs), prepaid inpatient health plans (PIHPs), primary care case management entities (PCCM entities), and prepaid ambulatory health plans (PAHPs). The regulations at 42 CFR §438.350 require that the EQR include, conducted by an external quality review organization (EQRO), analysis and evaluation of aggregated information on healthcare quality, timeliness, and access. Health Services Advisory Group, Inc. (HSAG) serves as the EQRO for the State of Colorado, Department of Health Care Policy and Financing (the Department)—the agency responsible for the overall administration and monitoring of Colorado’s Medicaid managed care program and Child Health Plan *Plus* (CHP+), Colorado’s program to implement CHIP managed care.

Pursuant to 42 CFR §457.1250, which requires states’ CHIP managed care programs to participate in EQR, the Department required its CHP+ health plans to conduct and submit performance improvement projects (PIPs) annually for validation by the state’s EQRO. **Friday Health Plans of Colorado (FHP)**, an MCO, holds the contract with the State of Colorado for provision of medical and behavioral health services for the Department’s CHP+ managed care program.

For fiscal year (FY) 2018–2019, the Department required health plans to conduct PIPs in accordance with 42 CFR §438.330(b)(1) and §438.330(d)(2)(i-iv), and 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

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.medicare.gov/medicaid/quality-of-care/medicaid-managed-care/external-quality-review/index.html>. Accessed on: Jan 23, 2019.

Over time, HSAG and some of its contracted states identified that while the MCOs had designed methodologically valid projects and received *Met* validation scores by complying with documentation requirements, few MCOs had achieved real and sustained improvement. In July 2014, HSAG developed a new PIP framework based on a modified version of the Model for Improvement developed by Associates in Process Improvement and modified by the Institute for Healthcare Improvement.¹⁻² The redesigned PIP methodology is intended to improve processes and outcomes of healthcare by way of continuous quality improvement. The redesigned framework redirects MCOs to focus on small tests of change to determine which interventions have the greatest impact and can bring about real improvement. PIPs must meet CMS requirements; therefore, HSAG completed a crosswalk of this new framework against the Department of Health and Human Services CMS publication, *EQR Protocol 3: Validating Performance Improvement Projects (PIPs): A Mandatory Protocol for External Quality Review (EQR)*, Version 2.0, September 2012.

HSAG presented the crosswalk and new PIP framework components to CMS to demonstrate how the new PIP framework aligned with the CMS validation protocols. CMS agreed that given the pace of quality improvement science development and the prolific use of Plan-Do-Study-Act (PDSA) cycles in modern improvement projects within healthcare settings, a new approach was needed.

PIP Components and Process

The key concepts of the new PIP framework include forming a PIP team, setting aims, establishing a measure, determining interventions, testing interventions, and spreading successful changes. The core component of the new approach involves testing changes on a small scale—using a series of PDSA cycles and applying rapid-cycle learning principles over the course of the improvement project to adjust intervention strategies—so that improvement can occur more efficiently and lead to long-term sustainability. The duration of rapid-cycle PIPs is 18 months.

PIP Terms

SMART (Specific, Measurable, Attainable, Relevant, Time-bound) Aim directly measures the PIP's outcome by answering the following: *How much improvement, to what, for whom, and by when?*

Key Driver Diagram is a tool used to conceptualize a shared vision of the theory of change in the system. It enables the MCO's team to focus on the influences in cause-and-effect relationships in complex systems.

FMEA (Failure Modes and Effects Analysis) is a systematic, proactive method for evaluating processes that helps to identify where and how a process is failing or might fail in the future. FMEA is useful to pinpoint specific steps most likely to affect the overall process, so that interventions may have the desired impact on PIP outcomes.

PDSA (Plan-Do-Study-Act) cycle follows a systematic series of steps for gaining knowledge about how to improve a process or an outcome.

¹⁻² Langley GL, Moen R, Nolan KM, Nolan TW, Norman CL, Provost LP. *The Improvement Guide: A Practical Approach to Enhancing Organizational Performance* (2nd edition). San Francisco: Jossey-Bass Publishers; 2009. Available at: <http://www.ihl.org/resources/Pages/HowtoImprove/default.aspx>. Accessed on: Mar 26, 2019.

For this PIP framework, HSAG developed five modules with an accompanying reference guide. Prior to issuing each module, HSAG held technical assistance sessions with the MCOs to educate about application of the modules. The five modules are defined as:

- **Module 1—PIP Initiation:** Module 1 outlines the framework for the project. The framework includes the topic rationale and supporting data, building a PIP team, setting aims (Global and SMART), and completing a key driver diagram.
- **Module 2—SMART Aim Data Collection:** In Module 2, the SMART Aim measure is operationalized and the data collection methodology is described. SMART Aim data are displayed using a run chart.
- **Module 3—Intervention Determination:** In Module 3, there is increased focus into the quality improvement activities reasonably thought to impact the SMART Aim. Interventions in addition to those in the original key driver diagram are identified using tools such as process mapping, failure modes and effects analysis (FMEA), and failure mode priority ranking, for testing via PDSA cycles in Module 4.
- **Module 4—Plan-Do-Study-Act:** The interventions selected in Module 3 are tested and evaluated through a thoughtful and incremental series of PDSA cycles.
- **Module 5—PIP Conclusions:** In Module 5, the MCO summarizes key findings and outcomes, presents comparisons of successful and unsuccessful interventions, lessons learned, and the plan to spread and sustain successful changes for improvement achieved.

Approach to Validation

HSAG obtained the data needed to conduct the PIP validation from **FHP**'s module submission forms. In FY 2018–2019, these forms provided detailed information about **FHP**'s PIP and the activities completed in Module 1 and Module 2. (See Appendix A, Module Submission Forms.)

Following HSAG's rapid-cycle PIP process, the health plan submits each module according to the approved timeline. Following the initial validation of each module, HSAG provides feedback in the validation tools. If validation criteria are not achieved, the health plan has the opportunity to seek technical assistance from HSAG. The health plan resubmits the modules until all validation criteria are met. This process ensures that the PIP methodology is sound prior to the health plan progressing to intervention testing.

The goal of HSAG's PIP validation is to ensure that the Department and key stakeholders can have confidence that any reported improvement is related to and can be directly linked to the quality improvement strategies and activities conducted by the health plan during the PIP. HSAG's scoring methodology evaluates whether the health plan executed a methodologically sound improvement project and confirms that any improvement achieved could be clearly linked to the quality improvement strategies implemented by the health plan.

Validation Scoring

During validation, HSAG determines if criteria for each module are *Achieved*. Any validation criteria not applicable (*N/A*) were not scored. As the PIP progresses, and at the completion of Module 5, HSAG will use the validation findings from modules 1 through 5 for each PIP to determine a level of confidence representing the validity and reliability of the PIP. Using a standardized scoring methodology, HSAG will assign a level of confidence and report the overall validity and reliability of the findings as one of the following:

- **High confidence** = The PIP was methodologically sound, the SMART Aim was achieved, the demonstrated improvement was clearly linked to the quality improvement processes conducted and intervention(s) tested, and the MCO accurately summarized the key findings.
- **Confidence** = The PIP was methodologically sound, the SMART Aim was achieved, and the MCO accurately summarized the key findings. However, some, but not all, quality improvement processes conducted and/or intervention(s) tested were clearly linked to the demonstrated improvement.
- **Low confidence** = (A) the PIP was methodologically sound; however, the SMART Aim goal was not achieved; or (B) the SMART Aim goal was achieved; however, the quality improvement processes conducted and/or intervention(s) tested were poorly executed and could not be linked to the improvement.
- **Reported PIP results were not credible** = The PIP methodology was not executed as approved.

PIP Topic Selection

In FY 2018–2019, **FHP** submitted the following PIP topic for validation: *Well-Child Visits in the 6th Through 14th Years of Life*.

FHP defined a Global Aim and SMART Aim for the PIP. The SMART Aim statement includes the narrowed population, the baseline rate, a set goal for the project, and the end date. HSAG provided the following parameters to the health plan for establishing the SMART Aim for the PIP:

- **Specific**: The goal of the project: What is to be accomplished? Who will be involved or affected? Where will it take place?
- **Measurable**: The indicator to measure the goal: What is the measure that will be used? What is the current data figure (i.e., count, percent, or rate) for that measure? What do you want to increase/decrease that number to?
- **Attainable**: Rationale for setting the goal: Is the achievement you want to attain based on a particular best practice/average score/benchmark? Is the goal attainable (not too low or too high)?
- **Relevant**: The goal addresses the problem to be improved.
- **Time-bound**: The timeline for achieving the goal.

Table 1-1 summarizes the PIP topic selected by **FHP** and the progress the health plan has made in completing the five PIP modules.

Table 1-1—PIP Topic and Module Status

PIP Topic	Module	Status
<i>Well-Child Visits in the 6th Through 14th Years of Life</i>	1. PIP Initiation	Module completed and approved.
	2. SMART Aim Data Collection	Module completed and approved.
	3. Intervention Determination	Targeted initial submission for May 2019.
	4. Plan-Do-Study-Act (PDSA)	Targeted initiation July 2019, with PDSA cycles continuing through the SMART Aim end date of June 30, 2020.
	5. PIP Conclusions	Targeted for October 2020.

At the time of the FY 2018–2019 PIP validation report, **FHP** had passed Module 1 and Module 2 and achieved all validation criteria for the PIP. **FHP** has progressed to Module 3, with an expected initial submission date in May 2019.

Validation Findings

In FY 2018–2019, **FHP** completed and submitted Module 1 and Module 2 for validation. Detailed module documentation submitted by the health plan is provided in Appendix A, Module Submission Forms.

The objective of Module 1 is for the health plan to ask and answer the first fundamental question, “What are we trying to accomplish?” In this phase, **FHP** determined the narrowed focus, developed its PIP team, established external partnerships, determined the Global Aim and SMART Aim, and developed the key driver diagram.

The objective of Module 2 is for the health plan to ask and answer the question, “How will we know that a change is improvement?” In this phase, **FHP** defined how and when it will be evident that improvement is being achieved.

The following section outlines the validation findings for the two modules. Detailed validation criteria, scores, and feedback from HSAG for each module are provided in Appendix B, Validation Tools.

Module 1: PIP Initiation and Module 2: SMART Aim Data Collection

Table 2-1 presents the FY 2018–2019 validation findings for **FHP**’s PIP.

Table 2-1—Validation Findings for the Well-Child Visits in the 6th Through 14th Years of Life PIP

Module 1—PIP Initiation	
Narrowed Focus Population	Members 6 through 14 years of age attributed to San Luis Valley Health.
SMART Aim Statement	By 6/30/2020, we will increase the percentage of members who meet the eligibility requirements during the measurement period receiving their well-child exam at San Luis Valley Health between the ages of 6 to 14 from 38% to 45%.
Module 2—SMART Aim Data Collection	
SMART Aim Measure	The percentage of members 6 through 14 years of age attributed to San Luis Valley Health during the rolling 12-month measurement period who each received a preventive or wellness visit during the measurement period.
SMART Aim Data Collection Plan	<ul style="list-style-type: none"> • Data Source: Administrative claims. • Methodology: Monthly data collection using a rolling 12-month measurement period.



As noted in the table above, **FHP** selected a PIP topic focused on increasing the rate of well-child visits among members 6 through 14 years of age. At the time of the FY 2018–2019 PIP validation report, the health plan had passed Module 1 and Module 2 and achieved all validation criteria for the PIP. **FHP** has progressed to Module 3, where the health plan will determine potential interventions to test for the PIP.

3. Conclusions and Recommendations

Conclusions

The validation findings suggest that **FHP** successfully completed Module 1 and Module 2 and designed a methodologically sound project. **FHP** was also successful in building internal and external quality improvement teams and developing collaborative partnerships with targeted providers and facilities.

Recommendations

- As **FHP** moves through the next phase of the PIP to determine interventions to test, it should consider completing process maps at both the health plan- and provider-levels for the PIP.
- As **FHP** progresses to testing interventions through a series of incremental PDSA cycles, the health plan's PIP team should ensure clear communication of the rationale for revising intervention strategies and how specified changes will lead to improvement. A common understanding and agreement about the drivers of improvement will allow the health plan's PIP team to properly direct resources and improvement activities toward appropriate change.
- When planning a test of change, **FHP** should think proactively (i.e., scaling/ramping up to build confidence in the change and eventually implementing policy to sustain changes).
- When developing the intervention testing methodology, **FHP** should determine the best method for identifying the intended effect of an intervention prior to testing. The intended effect of the intervention should be known beforehand to help determine a sound data collection plan for the intervention evaluation measure(s).
- As it tests new interventions, **FHP** should ensure it is making a prediction in each *Plan* step of the PDSA cycle and discussing the basis for the prediction. This will help keep the theory for improvement at the forefront for all involved in the project.
- The key driver diagram for the PIP should be updated regularly to incorporate knowledge gained and lessons learned as **FHP** progresses through determining and testing interventions.
- **FHP** should contact HSAG if it encounters methodological challenges and/or barriers when determining and testing interventions.
- **FHP** should reference the Rapid-Cycle PIP Reference Guide as it progresses through subsequent phases of the PIP and request technical assistance as needed.

Appendix A. Module Submission Forms

Appendix A contains the Module Submission Forms provided by the health plan. The details of these submission forms are too extensive to be included in this report but are available upon request from the Colorado Department of Health Care Policy and Financing.

Appendix B. Module Validation Tools

Appendix B contains the Module Validation Tools provided by HSAG. The details of these validation tools are too extensive to be included in this report but are available upon request from the Colorado Department of Health Care Policy and Financing.