

# 2018 External Quality Review

Performance Improvement Projects

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#### **1.0 Purpose and Overview**

The Department of Social Services, MO HealthNet Division (MHD) operates a Health Maintenance Organization (HMO) style Managed Care Program called MO HealthNet Managed Care. The State of Missouri contracts with Managed Care Organizations (MCOs) to provide health care services to Managed Care enrollees.

Effective May 1, 2017, Medicaid Managed Care (hereinafter stated "Managed Care") is operated statewide in Missouri. Previously, Managed Care was only available in certain regions (Central, Eastern, and Western). The State extended the health care delivery program in the Central Region and added the Southwestern Region of the State in order to incorporate the Managed Care statewide extension for all the eligibility groups currently enrolled in MO HealthNet Managed Care. The goal was to improve access to needed services and the quality of health care services in the MO HealthNet Managed Care and state aid eligible populations, while controlling the program's cost.

The Managed Care Program enables Missouri to use the Managed Care System to provide Medicaid services to Section 1931 children and related poverty level populations; Section 1931 adults and related poverty populations, including pregnant women; Children's Health Insurance Program (CHIP) children; and foster care children. As of SFY2018 ending, total number of Managed Care enrollees in MO HealthNet were 712,335 (1915(b) and CHIP combined).

Home State Health, one of the three MCOs operating in Missouri (MO), shall provide services to individuals determined eligible by the state agency for the MO HealthNet Managed Care Program on a statewide basis in all Missouri counties in the following four (4) designated regions of the State of Missouri: Central, Eastern, Western, and Southwestern.

Home State Health services are monitored for quality, enrollee satisfaction, and contract compliance. MHD requires participating MCO to be accredited by the National Committee for Quality Assurance (NCQA) at a level of "Accredited" or better. An External Quality Review Organization (EQRO) evaluates MCO annually, as well.

MHD has arranged for annual, external independent reviews of the quality outcomes and timeliness of, and access to, the services covered under each MCO contract. The Federal and



State regulatory requirements and performance standards as they apply to MCOs are evaluated annually for the State in accordance with 42 CFR 438.310 (a) and 42 CFR 438.310 (b).

Quality, (42 CFR 438.320 (2)), as it pertains to external quality review, means the degree to which an MCO increases the likelihood of desired outcomes of its enrollees through:

(1) Its structural and operational characteristics.

(2) The provision of services that are consistent with current professional, evidenced-basedknowledge.

(3) Interventions for performance improvement.

Access, (42 CFR 438.320), as it pertains to external quality review, means the timely use of services to achieve optimal outcomes, as evidenced by managed care organizations successfully demonstrating and reporting on outcome information for the availability and **timeliness** elements defined under §438.68 (Network adequacy standards) and §438.206 (Availability of services).

Timeliness: Federal Managed Care Regulations at 42 CFR §438.206 require the state to define its standards for timely access to care and services. These standards must take into account the urgency of the need for services.

Primaris Holdings, Inc. (Primaris) is MHD's current EQRO, and started their five-year contract in January 2018. To meet the federal requirement for the validation of PIPs set forth in 42 CFR 438.358 (b) (i), Primaris conducted an annual onsite review on July 9, 2018 for the validation of PIPs which were underway during the review period (CY 2017).

#### **Performance Improvement Projects (PIPs)**

MHD requires the contracted MCO to conduct performance improvement projects (PIPs) that are designed to achieve, through ongoing measurements and interventions, a significant improvement, sustained over time, in clinical care and nonclinical care areas. The PIPs are expected to have a favorable effect on health outcomes, member satisfaction, and improve efficiencies related to health care service delivery. (*Ref: MHD-Managed Care Contract 2.18.8 (d)*).

A statewide performance improvement project(s) is defined as a cooperative quality improvement effort by the Health Plan, the State Agency, and the External Quality Review



Organization (EQRO) to address clinical or non-clinical topic areas relevant to the Managed Care Program. (*Ref: MHD-Managed Care Contract 2.18.8 (d) 2*).

The MCO shall participate in a statewide performance improvement project(s) as specified by the state agency. Completion of the performance improvement project should be in a reasonable time period (a calendar year), so as to generally allow information on the success of performance improvement projects in the aggregate to produce new information on quality of care every year.

The PIPs shall involve the following (*Ref: 42 Code of federal Regulations (CFR) 438.330 (d)*):

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

During calendar year (CY) 2017, MHD required Home State Health to conduct two (2) PIPs-

- One (1) clinical: Improving Childhood Immunization Rates (Combo 10); and
- One (1) nonclinical: Improving Access to Oral Healthcare.

#### 2.0 Methodology for PIP Validation

To ensure methodological soundness while meeting all State and Federal requirements, Primaris followed guidelines established in the Department of Health and Human Services, Centers for Medicare & Medicaid Services (CMS) publication, EQR Protocol 3, Version 2: Validating Performance Improvement Projects.

Primaris gathered information about the PIPs through:

- Documents Submission: Home State Health submitted the following documents for review:
  - o PIP (clinical): Improving Childhood Immunization Rates Combo 10; and
  - PIP (non-clinical): Improving Access to Oral Healthcare.
- Interview: The following Home State Health officials were interviewed to understand their concept, approach and methodology adopted for the PIPs:
   Megan Barton, Vice President Medical Management
   Dana Houle- Senior Director, Quality Improvement



Douglas H Watts Manger, Quality Improvement

The activities conducted for PIPs Validation were:

- 1. Assess the study methodology.
- 2. Verify PIP study findings (Optional) (*Note: Not conducted*).
- 3. Evaluate overall validity and reliability of study results.

Activity 1: Assess the Study Methodology.

1. Review the selected study topic(s): Topic should address the overarching goal of a PIP, which is to improve processes and outcomes of health care provided by the MCO. It should reflect high-volume or high-risk conditions of the population.

2. Review the study question(s): The study question should be clear, simple and answerable. They should be stated in a way that supports ability to determine whether the intervention has a measurable impact for a clearly defined population.

3. Review the identified study population: The MCO will determine whether to study data for the entire population or a sample of that population.

4. Review the selected study indicators: Each PIP should have one or more measured indicator to track performance and improvement over a specific period of time. All measured indicators should be:

- Objective;
- Clearly defined;
- Based on current clinical knowledge or health services research;
- Enrollee outcomes (e.g., health or functional status, enrollee satisfaction); and
- A valid indicator of these outcomes

5. Review sampling methods (if sampling used): It should be based on Appendix II of the EQR Protocols for an overview of sampling methodologies applicable to PIPs.

6. Review data collection procedures: Ensure that the data are consistently extracted and recorded by qualified personnel. Inter-Rater Reliability (the degree to which different raters give consistent estimates of the same behavior) should be addressed.

7. Review data analysis and interpretation of study results: Interpretation and analysis of the study data should be based on continuous improvement philosophies and reflect an



understanding that most problems result from failures of administrative or delivery system processes.

8. Assess the MCO's Improvement strategies: Interventions should be based on a root cause analysis of the problem. System interventions like changes in policies, targeting of additional resources, or other organization wide initiatives to improve performance can be considered.9. Assess the likelihood that reported improvement is "real" improvement:

• Benchmarks for quality specified by the State Medicaid agency or found in industry standards.

• Baseline and repeat measures on quality indicators will be used for making this decision. *Note: tests of statistical significance calculated on baseline and repeat indicator measurements was not done by EQRO.* 

10. Assess the sustainability of documented improvement

Real change is the result of changes in the fundamental processes of health care delivery and is most valuable when it offers demonstrable sustained improvements. Spurious is "one- unplanned accidental occurrences or random chance."

Review of the re-measurement documentation will be required to assure the improvement on a project is sustained.

#### Activity 2: Verify Study Findings (Optional).

MHD may elect to have Primaris conduct on an ad hoc basis when there are special concerns about data integrity. (*Note: this activity was not done by EQRO and written as N/A*).

Activity 3: Evaluate and Report Overall Validity and Reliability of PIPs Results. Determining threats to validity, reliability, and PIP design is sometimes a judgment call, Primaris will report a level of confidence in its findings as follows: The PIPs will be rated as follows:

- High confidence = the PIP was methodologically sound, achieved the SMART (Specific, Measurable, Attainable, Relevant, Time-bound) Aim goal, and the demonstrated improvement was clearly linked to the quality improvement processes implemented.
- Confidence = the PIP was methodologically sound, achieved the SMART Aim goal, and some of the quality improvement processes were clearly linked to the demonstrated



improvement; however, there was not a clear link between all quality improvement processes and 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 and interventions 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.

#### 3.0 Findings: Home State Health

#### 3.1 PIP Clinical: Improving Childhood Immunization Status (CIS Combo 10)

The evaluation of Childhood Immunizations Status (CIS Combo 10) is a MHD requirement, a Home State Health Quality Strategic Initiative, as well as a nationally recognized study through NCQA/HEDIS reporting. As required by the MHD contract Section 2.18.8 (d) 2, the MCO should attain a target rate of ninety percent (90%) for the number of two (2) year olds immunized.

Immunizations are one of the safest and most effective ways to protect children from a variety of potentially serious childhood diseases. Failure to immunize not only exposes children to the dangers of disease, but also significantly impacts the cost of healthcare and lost school and workdays (National Quality Measures Clearinghouse, <u>www.qualitymeasures.ahrq.gov</u>; Feb 2, 2016).

Approximately three-hundred (300) children in the United States die each year from vaccinepreventable diseases (<u>http://www.mayoclinic.com/health/vaccines/CC00014</u>; February 29, 2016). Despite vaccines' benefits, Missouri's immunization rates for children between nineteen (19) and thirty-five (35) months of age are less than the national rates (with the exception of the Hepatitis B vaccine given at birth and Rotavirus) and many times lower than the rates of other states in the region (Iowa, Kansas and Nebraska) (National Immunization Survey.



http://www.cdc.gov/mmwr/preview/mmwrhtml/mm6433a1.htm?s\_cid=mm6433a1\_e#Tab3; February 2016).

Missouri is reported in the US Department of Health and Human Services (DHHS) Region VII along with Iowa, Kansas and Nebraska.

For the purpose of this PIP, Home State Health assessed the immunization rates as defined by the NCQA HEDIS 2018 (H2018) Technical Specifications for Childhood Immunization Status (CIS), for the following vaccinations by their second birthday (NCQA CIS Combo 10): NCQA Combo 10 includes:

- Four Diphtheria, Tetanus, and Acellular pertussis (DTaP);
- Three Polio (IPV);
- One Measles, Mumps, And Rubella (MMR);
- Three Haemophilus Influenza Type B (HiB);
- Three Hepatitis B (HepB);
- One Chicken Pox (VZV);
- Four Pneumococcal Conjugate (PCV) vaccinations;
- One Hepatitis A (HepA);
- Two Or Three Rotavirus (RV) vaccinations; and
- Two Influenza.

#### 3.1.1 Description of Data obtained

Aim: To increase the CIS rate for Combo 10 immunizations for CY 2017 by three (3) percentage points between CY 2016 and CY 2017.

Study Question: "Will directing targeted member and provider health promotion and awareness activities increase the percentage of Home State Health children under age two (2) who are immunized by three (3) percentage points between HEDIS 2017 (H2017) and HEDIS 2018 (H2018)?"

Study Indicator: the CIS rate of members under 2 years of age who meet the compliance requirements set forth in the NCQA HEDIS Childhood Immunizations (CIS) technical specifications applicable for the measurement year (CY 2017).



Study population: Includes all eligible Home State Health members under two (2) years of age.Sampling: The HEDIS Technical Specifications dictate a systematic sampling scheme for hybrid measures such as CIS rate, for H2018, a random sample of 411 members was taken.Baseline Data: The baseline for this PIP is Home State Health's Childhood Immunization (CIS)Combo 10 final rates for H2017 (CY 2016) as stated in Table 1.

HEDIS Year	Home State Health	NCQA 50th	NCQA 95th
IIEDIS Teat	Combo 10 Rate	percentile	percentile
2017	24.04%	33.09%	51.82%

#### Table 1: Home State Health CIS Combo 10 Baseline Rate (CY 2016)

#### Methodology

CIS Combo 10 compliance was determined using administrative claims (using The American Medical Association's (AMA) Current Procedural Terminology (CPT) codes) and non-claims clinical data. Additionally, Home State Health retrieved medical records from a variety of providers in order to capture documentation of immunizations administered which might not have been submitted to the Missouri Department of Health and Senior Services' ShowMeVax immunization registry. These medical records are accounted for the HEDIS Hybrid Technical Specifications and are entered as non-standard administrative data in our HEDIS rates.

Home State Health uses Quality Spectrum Insight (QSI), an NCQA certified measure software, to analyze claims data to determine compliance with this measure. Missouri Health Plus sends non-claims, clinical files to Centene Corporation for Home State Health members on a monthly basis. These supplemental data files are loaded into Centene's Enterprise Data Warehouse (EDW).

HEDIS rates are reviewed each month from QSI flowchart run reports based on claims data, state immunization registry, non-claims-clinical data received electronically via data exchange. QSI generated care gap reports are used each month to assess members meeting the denominator criteria who have not yet met the measure specifications and pursue medical



records from treating providers, clinics and/or health departments to retrieve medical documentation to support immunizations delivered but not captured via electronic means.

Following the current HEDIS Technical Specifications as applicable for the measurement year, the Centene Corporate HEDIS department runs an ETL (extract, transform, and load) process of Home State Health administrative data from the EDW into QSI on a monthly basis. Home State Health's QI staff extract the monthly preliminary HEDIS results to analyze and determine effectiveness of interventions based on changes in the CIS rate. Home State Health HEDIS team analyzes the CIS measure data to identify all members who are non-compliant for the measure for appropriate outreach.

Home State Health performs a HEDIS measurement at the end of each subsequent year using Quality Spectrum Insight (QSI), which includes the HEDIS Technical Specifications enrollment criteria. The quality measurement for this study includes:

- Denominator: Home State Health members under two (2) years of age, enrolled on 12/31 of the measurement year, who were continuously enrolled in the measurement year with no more than one gap in enrollment of up to forty-five (45) days during the measurement year.
- Numerator: Home State Health members in the denominator who met the measure specification requirements for CIS Combo 10 as defined by the H2018 Technical Specifications.

Home State Health monitors this study indicator throughout the year (at minimum quarterly) to monitor the effectiveness of the interventions and to determine if additional interventions are needed. The annual report of this measure is audited by an NCQA certified HEDIS auditor.

#### **Intervention and Improvement Strategies:**

Home State Health have ongoing interventions from the past years, not limited to the following listed below:

EPSDT Program includes outreach to members at strategic milestones encouraging their engagement in wellness activities, including childhood immunizations. Through monthly assessment of member engagement, Home State Health outreaches members who have not obtained their immunizations in the following ways:

• Live and automated telephonic outreach;



- Member services inbound call interactions;
- Care management interactions; and
- Birthday card reminder mailings.

Home State Health's pay-for-performance improvement programs that were initiated in 2015 continue to date, and have evolved to increase the number of in-network participating providers.

# Table 2: Home State Health Childhood Immunization Interventions based on Barrier Analysis

Date	Ongoing Interventions	Root Cause Addressed	Potential Impact	Outcome
2016 & ongoing	Implemented STLMedical New Mom andTraditional EPSDTtangible incentive andtexting programs aimedat educating parents intheir preferred mode ofcommunication andincentivizing healthybehaviors, includingchildhoodimmunizations.	Lack of parental awareness of the benefits of and access to immunizations for their children under 2 years of age.	Increasing the number of children who need vaccinations by their 2 <sup>nd</sup> birthday.	In 2016, Home State Health distributed 3,751 Childhood Immunization education mailers to families with children eligible for this measure. In 2017, 6,6,81 mailers were sent.
Q2 2017	Implemented quarterly validation of provider database based on claims evidence.	Inconsistency of provider-member relationship attributed to imputed vs. assigned provider	Improving the ability to locate member medical records for compliant visits/immunizations	Home State Health identified that approximately 40% of membership have no discernable PCP relationship.



Q3 2017Expanded electronic medical record (EM access to Home State Health Quality Improvement Department staffImplemented utility	Immunization data         Immunization data         Inte       unavailable to Home         State Health	Improving the ability to locate member medical records for compliant visits/immunizations	In 2017 Home State Health acquired EMR access to 8 providers servicing over 100,000 Home State Health members.
of HEDIS User Interface (HUI). It interactive and routinely updated database used for HEDIS reporting a standardized mechanism to add standard suppleme data to demonstra more accurate childhood immunization rate	<ul> <li>is an processes/systems to</li> <li>support the reporting of</li> <li>immunization</li> <li>supplemental data</li> <li>following NCQA</li> <li>specification and</li> <li>auditor approval to</li> <li>support HEDIS</li> <li>reporting requirements</li> </ul>	accurate and timely representation of HEDIS rates; supporting collection and oversight process available	For H2018, Home State Health utilized HUI for 3,741 immunization events that were not captured via claims or other supplemental data sources

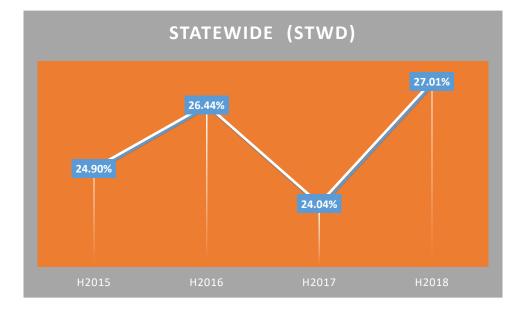
## **3.1.2 PIP Results**

The Statewide CIS Combo 10 rate for Home State Health in CY 2017 (H2018) was 27.01% as compared to the rate in CY 2016 (H2017-24.04%), shown in the Figure 1.



Between H2017 and H2018 (CY 2016 and CY 2017), the statewide CIS Combo 10 rate increased by 2.97 percentage points, which is not statistically significant. The aim of the PIP to increase by 3% point could not be achieved. It fell short by 0.03% point. Home State Health is far too behind the contractual requirement to meet the goal of 90% rate. Between H2016 and H2017 (CY 2015 and CY 2016) the rate decreased 2.40 percentage points.

Between H2015 and H2016 (CY 2014 and CY 2015), the statewide rate of CIS Combo 10 increased 1.54 percentage points.



#### Figure 1: Trend in Home State Health for STWD CIS Combo 10 Rates H2015-H2018

The rates of CIS Combo 10 increased in each individual region between H2017 and H2018 (CY 2016 and CY 2017) from the 10<sup>th</sup> to the 25<sup>th</sup> percentile. Additionally, Home State Health demonstrated statistically significant increases in the rates of Combo 10 in the Western region between H2017 and H2018.



Table 3: Trends in Home State Health HEDIS CIS Combo 10 Rates H2015-H2018 (CY2014-CY 2017)

HEDIS	HEDIS Statewide	Eastern	Central	Western	NCQA Quality
Year	(STWD)	Region	Region	Region	Compass 50 <sup>th</sup>
rear	(SI WD)	(EMO)	(CMO)	(WMO)	Percentile
H2015	24.90%	25.72%	28.77%	22.12%	34.18%
H2016	26.44%	28.61%	19.95%	19.95%	32.64%
H2017	24.04%	25.00%	18.51%	19.23%	33.09%
H2018	27.01%	25.55%	21.90%	27.49%	Pending



#### Figure 2: Trends in Home State Health HEDIS CIS Combo 10 Rates by Region

#### 3.2 PIP Non Clinical: Improving Access to Oral Healthcare

Oral health is an integral component of children's overall health and well-being. Dental care is the most prevalent unmet health need among children. Statistics from the Centers for Disease Control and Prevention (CDC) reveal that over two-thirds of children have decay in their permanent teeth (ref: Children's Oral Health 2007,CDC Oral Health Resources).

The Kaiser Commission suggests that "oral disease has been linked to ear and sinus infection and weakened immune system, as well as diabetes, and heart and lung disease. Studies found that children with oral diseases are restricted in their daily activities and miss over 51



million hours of school each year" (ref: Dental Coverage and Care for Low-Income Children: The Role of Medicaid and SCHIP. August 2007. The Henry J. Kaiser Family Foundation). The connection between oral health and general health is not often made by Medicaid recipients who frequently encounter other socioeconomic challenges Underutilization of dental services is not a problem specific to the Medicaid population.

#### 3.2.1 Description of Data obtained

Aim: To increase the Annual Dental Visit (ADV) rate by three (3) percentage points between CY 2016 and CY 2017.

Study Question: "will implementing the proposed interventions to Home State Health members between ages 2 through 20 increase the ADV rate per the HEDIS specifications by 3 percentage points between Home State Health's HEDIS 2017 (H2017) and HEDIS 2018 (H2018) results?" Study Indicator: The rate of Home State Health members age two through twenty years old who had at least one dental visit during the measurement year (CY 2017) as measured by the HEDIS ADV total rate through the administrative method of measurement.

The study population: Includes all eligible Home State Health members ages two through twenty.

Sampling: No sampling was done. All members from age two through twenty were included in the PIP.

Baseline Data: Home State Health baseline for this performance improvement project is the plan's ADV final rates for HEDIS Year 2017. For comparison purposes, the NCQA Quality Compass percentile targets for both the 25<sup>th</sup> and 50<sup>th</sup> percentile are referenced.

HEDIS Year	Home State Health	NCQA Quality	NCQA Quality
	ADV Rate	Compass 25 <sup>th</sup> percentile	Compass 50 <sup>th</sup> percentile
H2017	39.91%	46.27%	54.93%

#### Table 4: Home State Health ADV Baseline Rate (CY 2016)



#### Methodology

Home State Health uses QSI XL, an NCQA-certified HEDIS software, to analyze claims data to determine compliance with this measure. Administrative claims are gathered using the American Dental Association's (ADA) Current Dental Terminology (CDT) and the American Medical Association's (AMA) Current Procedural Terminology (CPT) codes as well as non-claims administrative data. Envolve Dental sends Centene Corporation claims files for Home State Health members on a monthly basis. These supplemental data files are loaded into Centene's Enterprise Data Warehouse (EDW).

The H2018 Technical Specifications eliminated the Dental Visits Value Set, which is "the complete set of codes used to identify a service or condition included in a measure". This change now allows any visit with a dental practitioner during the measurement year to be counted in the ADV rate, rather than only particular types of visits, as before.

Following the current HEDIS Technical Specifications, the Centene Corporate HEDIS department runs an ETL (extract, transform, and load) process of Home State Health's administrative data from the Enterprise Data Warehouse into QSI XL on a monthly basis. Home State Health QI staff then extract the monthly preliminary HEDIS results to analyze and determine the effectiveness of interventions based on changes in ADV rate. The Corporate HEDIS team also runs the ADV measure without the continuous enrollment factor to allow Home State Health to determine all members who are non-compliant for the measure for appropriate outreach. In addition, the vendor contracted to conduct outreach calls to encourage members to utilize their dental benefits periodically provides data on their contact rates.

Home State Health performed a HEDIS measurement at the end of subsequent year using Quality Spectrum Insight XL (QSI XL), which included the HEDIS Technical Specifications enrollment criteria. The quality measurement for this study includes:

- Denominator: Home State Health members ages 2 through 20, enrolled on 12/31 of the measurement year, who were continuously enrolled during the measurement year with no more than one gap in enrollment of up to 45 days during the measurement year.
- Numerator: Home State Health members in the denominator who had one or more dental visits with a dental practitioner during the measurement year.



Home State Health monitored this study indicator throughout the year - at minimum quarterly - to monitor the effectiveness of the interventions and to determine if additional interventions were needed. The annual report of this measure is audited by an NCQA certified HEDIS auditor.

#### **Intervention and Improvement Strategies**

- Home State Health's EPSDT program includes outreach to members at strategic milestones, encouraging their engagement in wellness activities, including oral health. Through monthly assessment of member engagement, Home State Health outreaches members who have not completed their annual dental visits in multiple ways:
  - Live and automated telephonic outreach;
  - Member Services inbound call interactions; and
  - Care Management interactions and birthday card reminder mailings.
- In conjunction with the MO HealthNet contract effective May 1, 2017, Home State Health implemented a warm, telephonic outreach campaign with AlphaPointe, a sheltered workshop in Missouri. Following state approval of the Annual Dental Visits script on August 18, 2017, these calls were initiated in September and ran through the end of December, 2017.
- Table 5 lists interventions implemented in 2016 and 2017 to address specific barriers to reaching ADV rate goals.

Date	Ongoing	Barriers	Outcomes
Implemented	Interventions	Addressed	
	Existing eligible members received Primary Care Dental (PCD) assignment ID cards in the mail in June 2016. Newly eligible Adult PCD assignment ID cards mailed in July 2016.	Access to dentists and availability of appointments.	Plan to continue in H2018. At time of initial implementation, this was mailed to the entire eligible

#### Table 5: Home State Health Oral Health Interventions based on Barrier Analysis



			population. Newly enrolled members receive PCD assignment cards upon enrollment.
Q2 2017	Automated Static	Member knowledge of	Plan to continue in
	Telephonic Messaging sent	dental benefit, access to	H2019.
	to all Members identified as	dentists, and	
	not having an annual dental	transportation benefit.	
	visit in the past 365 days		
	was deployed in June 2017.		
Q3 and Q4 2017	Members identified as not	Member knowledge of	Plan to continue in
	having received their annual	dental benefit, access to	H2019.
	dental visit were contacted	dentists, and	
	by AlphaPointe, a	transportation benefit.	
	contracted vendor, to be		
	reminded of their dental		
	benefit, preferred dentist		
	and, if applicable, of their		
	benefit to receive		
	transportation to and from		
	their dental visits.		
Q4 2017	Oral Health Texting	Member knowledge of	Plan to continue in
	Campaign 11/16/17.	dental benefit and	H2019.
		recommended frequency	
		for dental exams.	



Q4 2017	Toothbrush Timer Texting	Member knowledge of	Plan to continue in
	and app for cell phones	dental benefit	H2019.
	12/28/17.		

## **3.2.2 PIP Results**

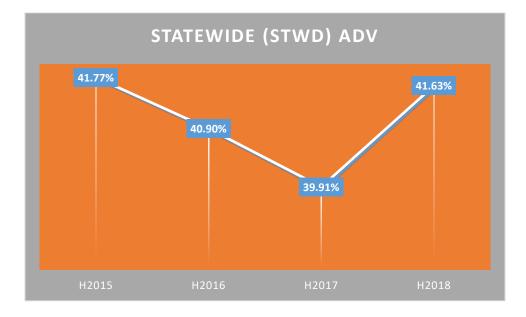
- > Outreach campaign with AlphaPointe had the following impact on members:
  - 9% (544/6,374) Members set up and completed their dental required visit after the AlphaPointe call;
  - 85% (5448/6,374) Members did not complete their dental required visit after the AlphaPointe call; and
  - 11% (700/6,374) Members opted into Home State Health's texting program which addresses wellness behaviors in general, including annual dental visits.
- The intervention about sending an automated static telephone message to all households where at least one Member in the eligible population had no evidence of completing an annual dental visit within the past 365 days as well as sending oral health related text messages to all households where texting Opt In has been documented, resulted in 10,700 Members who have opted into receiving text messages related to wellness behaviors.
- The Statewide ADV rate for Home State Health in CY 2017 (H2018) was 41.63% as compared to the rate in CY 2016 (H2017-39.91%), shown in Figure 3.
   Between H2017 and H2018 (CY 2016 and CY 2017), Home State Health's statewide ADV rate increased by 1.72 percentage points which is statistically significant. However, the aim of the PIP to increase by 3% point could not be achieved.
   Between H2016 and H2017 (CY 2015 and CY 2016) the ADV rate decreased by almost a full % point.

Between H2015 and H2016 (CY 2014 and CY 2015) decreased by 0.87% point.

There has been an increase in ADV rates in Eastern, Central and Western region of Missouri between H2017 and H2018 (CY 2016 and CY 2017). The largest increase has been in the Eastern region (2.83% point) which is statistically significant, where the plan is headquartered and where the largest concentration of members resides.



The ADV rate in the new, Southwest Region (effective 5/1/17) was 52.82%, or 9.96 percentage points higher than the Eastern Region at 42.86% (Table 5).

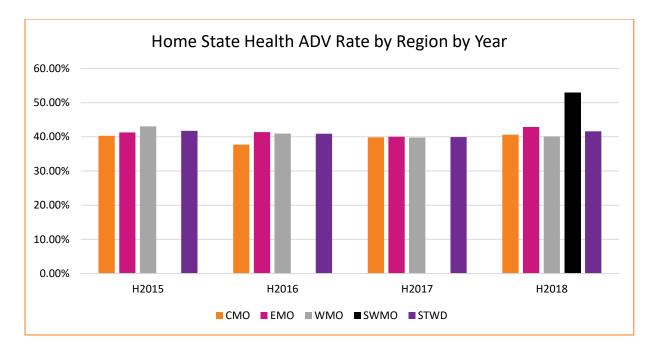


## Figure 3: Trend in Home State Health for STWD ADV Rates H2015-H2018

## Table 5: Trends in Home State Health HEDIS ADV Rates H2015-H2018

HEDIS Year	Statewide (STWD)	Eastern Region (EMO)	Central Region (CMO)	Western Region (WMO)	Southwestern Region (SWMO)	NCQA Quality Compass 50 <sup>th</sup> Percentile
H2015	41.77%	41.26%	40.31%	43.08%	N/A	52.65%
H2016	40.90%	41.37%	37.73%	40.95%	N/A	51.7%
H2017	39.91%	40.03%	39.83%	39.77%	N/A	54.93%
H2018	41.63%	42.86%	40.62%	40.10%	52.82%	Pending





#### Figure 4: Trends in Home State Health HEDIS ADV Rates by Region

#### 4.0 Overall Conclusions

#### **PIPs Score**

The following score was assigned to both the CIS Combo 10 and Oral HealthCare PIPs: **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 and interventions were poorly executed and could not be linked to the improvement.

#### 4.1 Issues and Key Drivers

#### Issues

#### **PIPs' Approach**

• The PIPs did not meet all the required guidelines stated in CFR/MHD contract (Ref: 42 Code of federal Regulations (CFR) 438.330 (d)/MHD contract 2.18.8 d 1):



CFR Guidelines	Evaluation
Measurement of performance using objective quality indicators	Partially Met 😐
Implementation of system interventions to achieve improvement	Met •
in quality	
Evaluation of the effectiveness of the interventions	Not Met 🔍
Planning and initiation of activities for increasing or sustaining	Partially Met 😐
improvement	

## **Table 6: CFR guidelines for PIPs**

- The aim was not clearly written. The baseline rate and rate to be achieved (aim) were not stated.
- The PIPs were not conducted over a reasonable time frame (A calendar year). They continued for years from the past and at varying times throughout the year.
- The interventions were not specifically designed for these PIPs. They were on going for years at State or corporate level, overlapped in the measurement year, thus the impact of an intervention could not be measured.
- Annual evaluation of HEDIS CIS/ADV rate was used as quality indicators, which is a
  requirement for performance measure reporting by MHD/CMS (Centers for Medicare and
  Medicaid Services)/NCQA (National Committee for Quality Assurance). The indicators were
  not specifically chosen to measure the impact of interventions.
- The HEDIS CIS/ADV rates could not be tied to any intervention.
- Monthly measurement of HEDIS rates is mentioned by Home State Health but data/run charts were not submitted.

#### **PIP Results**

Home State Health's CIS Combo 10 rates did not increase as expected. Potential reasons submitted by Home State Health were:

• Lack of focus of prior interventions on incentivizing and mobilizing members to seek out their immunizations; and



• Insufficient reporting by providers of immunization administrations, as well as a need for enhanced capturing and validation of those that are reported.

Home State Health's ADV rates did not increase as expected. Potential reasons include the following flaws in the interventions Home State Health has historically implemented:

- Many of the interventions were forward looking and structural in nature.
- The initiative with St. Louis Medical provided the member (parent) with a toothbrush, floss and toothpaste, along with a card informing the parent of how to locate a dental provider. This was informative, but did not actually create a visit to the dentist.
- The utilization of Dental Vans did not yield a substantive increase in the ADV rate; although this intervention was designed to add convenience to an actual visit, the van providers refused to comply with billing standards that would become numerator compliant. Historically, dental vans have not contributed significantly to ADV rates.
- Affinia Healthcare, a large FQHC with over 90 dental chairs, had administrative and provider challenges which restricted forecasted volumes of treatments.

#### **Key Drivers**

- CDC's Task Force on Community Prevention Services has identified three key drivers around which interventions can help to overcome vaccine noncompliance: (https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4927017/#b9-ptj4107426)
  - o Increasing community demand for vaccination;
  - o Enhancing access to vaccination services; and
  - Provider-based interventions.
- Based on U.S. Department of Health and Human Services Oral Health Strategic Framework, 2014–2017 (<u>https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4765973/</u>), some of key drivers to improve Oral health are:
  - o Integration between medical and dental records;
  - o Cost of dental care and lack of dental coverage; and
  - o Oral health literacy.



#### 4.2 Quality, Timeliness and Access to HealthCare Services

#### **CIS Combo 10**

- Home State Health will to continue its infrastructure interventions. They will assess its more direct, member-facing interventions for effectiveness, focusing on increasing provider involvement, capturing immunization administrations, and validation of data output analysis.
- During CY 2017, Home State Health continued interventions started in 2016 about EPSDT program which aimed at increasing CIS rates and developed improved data flow with key partners.
- Throughout 2017, Home State Health continued to work toward a project agreement with Missouri Health Connection (MHC), a statewide health information exchange network. Home State Health seeks to collaborate with MHC to develop an agreement and scope of work to include bi-directional information sharing between Home State Health and MHC, including membership and clinical data. This will allow Home State Health to collect additional HEDIS data, including immunizations, and enable reporting through supplemental data. In 2018, Home State Health continues to work with MHC toward this collaborative data exchange.

#### Access to Oral HealthCare

- Home State Health experienced an increase in ADV between H2017 and H2018. Home
  State Health has committed to a number of long term projects designed to empower
  providers with the ability to identify non-compliant members and to conduct assessments,
  treatments and referral of members with oral health problems.
- Home State Health has also promoted long-term plans for members to develop a dental home, receive electronic communication regarding oral health, receive fluoride varnish, and increase choices for dental access.
- Home State Health will continue to fully participate and collaborate with the Missouri Dental Task Force to develop innovative methods to provide dental services to the eligible population. Home State Health believes that the Quality Improvement Team's



efforts in both HEDIS and EPSDT member outreach as well as the collaboration with the Missouri Coalition for Oral Health (MCOH) and the Missouri Department of Health and Senior Services (DHSS) implementation of Women, Infants and Children (WIC) Program based oral health services will contribute to future ADV rates.

• The most likely reason reported by Home State Health for the lack of improvement in ADV rate, is its precipitous increase in membership, due to both auto enrollment as well as Home State Health's statewide expansion in calendar 2017 when the plan went from 109,000 members to over 270,000 members. Newer members may not be familiar with the managed care processes or have an established relationship with their MCO or their provider(s).

Based on the graph below, Primaris noted that there is a minimal decrease of 0.15% point in ADV compliancy rate in CY 2017 in comparison to CY 2016. So the explanation provided by Home State Health attributing the increase in members for the cause of low ADV rates, does not appear to be valid. Home State Health was able to maintain the compliancy rate from previous year.

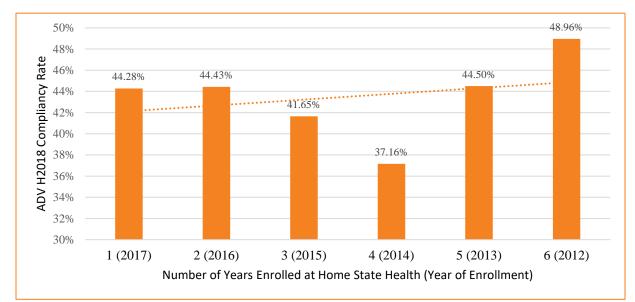


Figure 5: Home State Health HEDIS ADV H2018 Compliancy Rate by Number of Years Enrolled



#### 4.2 Improvement by Home State Health

- No improvement in the approach or methodology of PIPs was noticed in CY 2017. The report from the previous year's EQRO stated the same issues that were noticed by Primaris in EQR 2018. Home State Health continued to use ongoing interventions that have failed to create the anticipated change in these projects.
- The recommendations from previous EQRO were not followed. It was suggested that innovative approaches to positively impact the problems identified were necessary. As interventions are implemented, a method to measure each interventions' outcome must also be introduced. These elements were missing in the PIP for CY 2017 as well.
- However, the CIS combo 10 rate Statewide increased in CY 2017. Even though the goal/aim for PIP was not achieved, the ongoing interventions and the new ones together increased the rate from previous year by 2.97% point.
   Similarly, the ADV rate increased by 1.72% point statewide and in the three regions (Eastern, Central, and Western) from the CY 2016.

#### 5.0 Recommendations

#### **PIPs Approach**

- Home State Health must continue to refine their skills in the development and implementation of approaches to effect change in their PIP.
- The aim and study question(s) should be stated clearly in writing (baseline rate, aim to achieve, % increase).
- PIPs should be conducted over a reasonable time frame (a calendar year) so as to generally allow information on the success of performance improvement projects in the aggregate to produce new information on quality of care every year.
- The interventions should be planned specifically for the purpose of PIP required by MHD Contract and results, impact should be measured on a regular basis (minimum of 12 data points on the run chart should be shown).
- The results should be tied to the interventions.



- A request for technical assistance from EQRO would be beneficial. Improved training, assistance and expertise for the design, analysis, and interpretation of PIP findings are available from the EQRO, CMS publications, and research review.
- Instead of repeating interventions that were not effective, evaluate new interventions for their potential to produce desired results, before investing time and money.
- Home State Health must utilize the PIPs process as part of organizational development to maintain compliance with the State contract and the federal protocol.

## **Improvement in CIS rate**

Below are some of the interventions from

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4927017/#b9-ptj4107426 which could be adopted by Home State Health to improve the CIS rate:

Health Provider-Based Interventions to Improve Vaccination Compliance

## **Provide Parent and Patient Counseling**

Be informed about vaccinations.

Make strong recommendations.

Provide patients with educational materials.

Use proven communication strategies.

Dispel myths about side effects.

Inform parents about research.

Give parents time to discuss concerns.

Describe infections that vaccines prevent.

Describe potential health and financial consequences of vaccine noncompliance.

Provide a vaccination record with past and future vaccination visits.

Provide patient reminders.

Ask vaccine-hesitant parents to sign an exemption form.

Inform parents that a missed dose will not require vaccine series to be restarted.

## Maximize Opportunities for Vaccination

Administer vaccinations during sick or follow-up visits (postsurgical, post hospitalization).



Issue a standing order to allow nurses to administer patient vaccinations.

#### **Offer Combination Vaccines**

Simplifies vaccination regimen.

Minimizes the number of injections.

Reduces need for return vaccination visits.

Improves patient adherence.

#### **Improve Accessibility to Vaccinations**

Allow same-day appointments or walk-in visits.

Make sure the office staff is friendly and supportive.

Provide convenient office hours.

Limit patient wait time.

#### **Use Electronic Medical Records**

Utilize consolidated electronic immunization records.

Set electronic alerts for needed vaccinations.

Follow up on electronic medical record alerts by contacting patient.

#### • Community- and Government-Based Interventions to Improve Vaccination Compliance

#### **Public Education**

Distribute educational materials that incorporate community input.

Conduct public messaging campaigns.

Use electronic communications to distribute health and safety information.

## Public Reminder and Recall Strategies

Conduct centralized reminder and recall strategies through public agencies or payers.

Use electronic communications, such as social media and text messaging, for reminder and recall programs.

**Free Vaccines and Other Financial Incentives** 



Provide free vaccines to uninsured patients.

Issue financial incentives, such as gift certificates.

#### Alternative Public and Private Venues for Vaccination

Day care facilities

Drop-in service at walk-in clinics

Pharmacies

Women, Infants, and Children (WIC) program offices

Emergency departments

Inpatient settings

Home visits

## **Improvement in Oral Health**

Source: U.S. Department of Health and Human Services Oral Health Strategic Framework, 2014–2017 (https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4765973/).

The following are the strategies and actions for each of the 5 goals listed below which would help to achieve improved Oral Health of the members.

1. Integrate Oral health and primary health care.

- Advance inter professional collaborative practice and bidirectional sharing of clinical information to improve overall health outcomes.
- Promote education and training to increase knowledge, attitudes, and skills that demonstrate proficiency and competency in oral health among primary care providers.
- Support the development of policies and practices to reconnect the mouth and the body and inform decision making across all HHS programs and activities.
- Create programs and support innovation using a systems change approach that facilitates a unified patient-centered health home.

2. Prevent disease and promote oral health.

• Promote delivery of dental sealants in school-based programs and expand community water fluoridation.



- Identify reimbursement strategies and funding streams that enhance sustainability of prevention programs.
- Coordinate federal efforts focused on strengthening the infrastructure and capacity of local, state, and regional oral health programs.
- Explore new clinical and financial models of care for children at high risk for developing caries, such as risk-based preventive and disease-management interventions.
- 3. Increase access to oral health care and eliminate disparities.
  - Expand the number of health-care settings that provide oral health care, including diagnostic, preventive, and restorative services in federally qualified health centers, school-based health centers, Ryan White HIV/AIDS-funded programs, and IHS-funded health programs.
  - Strengthen the oral health workforce, expand capabilities of existing providers, and promote models that incorporate other clinicians.
  - Improve the knowledge, skills, and abilities of providers to serve diverse patient populations.
  - Promote health professionals' training in cultural competency.
  - Assist individuals and families in obtaining oral health services and connecting with a dental home.
  - Align dental homes and oral health services for children.
  - Create local, regional, and statewide partnerships that bridge the aging population and oral health systems.
  - Support the collection of sex- and racial/ethnic-stratified data pertaining to oral health.
- 4. Increase the dissemination of oral health information and improve health literacy.
  - Enhance data value by making data easier to access and use for public health decision making through the development of standardized oral health measures and advancement of surveillance.
  - Improve the oral health literacy of health professionals through the use of evidence-based methods.
  - Improve the oral health literacy of patients and families by developing and promoting clear and consistent oral health messaging to health-care providers and the public.



- Assess the health literacy environment of patient care settings.
- Integrate dental, medical, and behavioral health information into electronic health records.

5. Advance oral health in public policy and research.

- Expand applied research approaches, including behavioral, clinical, and population-based studies; practice-based research; and health services research to improve oral health.
- Support research and activities that examine the influence of health-care system organization, reimbursement, and policies on the provision of oral health care, including fostering government and private-sector collaboration.
- Address disparities in oral health through research that fosters engagement of individuals, families, and communities in developing and sharing solutions and behaviors to meet their unique needs.
- Promote the translation of research findings into practice and use.
- Develop policy approaches that support state Medicaid and CHIP to move from paying for volume to purchasing value, and from treating disease to preventing disease.
- Evaluate the impact of policy on access to care, oral health services, and quality.

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## PERFORMANCE IMPROVEMENT PROJECT VALIDATION WORKSHEET (A)

Date of evaluation: July 9, 2018

MCO Name:	Home State Health
Name of Performance Improvement Project:	Improving Childhood Immunization Status (CIS Combo 10)
Dates in Study Period:	Jan 1, 2017- Dec 31, 2017
Demographic Information:	Number of Medicaid/CHIP enrollees in MCO: 271,445 Medicaid/CHIP members included in the study: 5608

Score: Met (M) <br/>
/Not Met (NM) <br/>
/Partially Met (PM) <br/>
/Not Applicable (N/A)

## **ACTIVITY 1: ASSESS THE STUDY METHODOLOGY**

## **Step 1: Review the Selected Study Topic(s)**

Component/Standard	Score	Comments
1.1 Was the topic selected through data	M	Home State Health developed the topic for
collection and analysis of comprehensive		this Childhood Immunization PIP using
aspects of specific MCO enrollee needs, care,		national, regional, and Home State Health's
and services?		data. Home State Health provided a
		thorough review of the literature and current
		MHD contract requirements to further
		analyze and support the PIP topic.
1.2 Is the PIP consistent with the	M	18% of the Home State Health's members
demographics and epidemiology of the		were children under the age of two (2).
enrollees?		Year-over-year analysis of Home State
		Health's Combo 10 childhood
		immunization rates demonstrates that less
		than 30% of these children have evidence of
		receiving the required immunizations.



	-	
1.3 Did the PIP consider input from enrollees with	M	Home State Health included all members
special health needs, especially those with mental		that met the H2018 (CY 2017) HEDIS
health and substance abuse problems?		Technical Specifications for inclusion in the
		Combo 10 CIS measure. Members with
		special health needs were not excluded from
		this PIP.
1.4 Did the PIP, over time, address a broad	M	Home State Health's CIS PIP recognizes
spectrum of key aspects of enrollee care and		that immunizations are a fundamental
services (e.g., preventive, chronic, acute,		aspect of childhood care and services, and
coordination of care, inpatient, etc.)?		affirms the importance of preventive
		services.
1.5 Did the PIP, over time, include all enrolled	M	All members who were eligible for
populations (i.e., special health care needs)?		immunizations were addressed in this PIP.
		Consistent with the MHD contract
		requirement and using the HEDIS Technical
		Specifications, this PIP was structured to
		address Home State Health membership
		under the age of two (2).

# Step 2: Review the Study Question(s)

Component/Standard	Score	Comments
2.1 Was/were the study question(s) measurable	PM	The study question was measurable but not
and stated clearly in writing?		clearly stated. The measurement year,
		baseline year and the rates for baseline year
		and goal for measurement year, should be
		clearly written. The study question was as
		follows:
		'Will directing targeted member and
		provider health promotion and awareness
		activities increase the percentage of Home
		State Health children under age two (2) who



are immunized by three (3) percentage
points between HEDIS 2017 (CY 2016) and
HEDIS 2018 (CY 2017)?'

# **Step 3: Review the Identified Study Populations**

Component/Standard	Score	Comments
3.1 Were the enrollees to whom the study question and indicators are relevant clearly defined?	M	All Home State Health members under two (2) years of age, enrolled on Dec 31 of the measurement year (CY 2017), who were continuously enrolled with no more than one gap in enrollment of up to forty-five (45) days during the measurement year were included as denominator.
3.2 If the entire population was studied, did its data collection approach capture all enrollees to whom the study question applied?	M	The enrollment "allowable gap" criteria was not used for the intervention population. Interventions were applied to all eligible members, under two years of age, at the time of each intervention.

## Step 4: Review Selected Study Indicator(s)

Component/Standard	Score	Comments
4.1 Did the study use objective, clearly defined, measurable indicators (e.g., an event or status that will be measured)?	M	HEDIS CIS (Combo 10) rate was the indicator used to assess the outcome of PIP. Administrative and Hybrid data was used to determine annual CIS (combo 10) rate.
4.2 Did the indicators track performance over a specified period of time?	PM 🗢	Home State Health stated that the performance for CY 2017 was tracked on a quarterly and annual basis, but not submitted. It should be measured and



		plotted on a run chart to show the impact of
		interventions.
4.3 Are the number of indicators adequate to	PM <mark>&gt;</mark>	HEDIS CIS (combo 10) measure was used
answer the study question; appropriate for the level	l	to provide an answer to the study question.
of complexity of applicable medical practice		The purpose of PIP is to determine
guidelines; and appropriate to the availability of		measurable improvement through
and resources to collect necessary data?		interventions and see the impact of each of
		them on the healthcare services and benefits
		to the members, which was not measured in
		this PIP.

# **Step 5: Review Sampling Methods**

Component/Standard	Score	Comments
5.1 Did the sampling technique consider and	M	Home State Health utilized a random
specify the true (or estimated) frequency of		sample of 411 members for CY 2017, as per
occurrence of the event, the confidence interval to		2018 HEDIS Technical Specifications'
be used, and the acceptable margin of error?		systematic sampling methodology for the
		Combo 10 CIS hybrid measure.
5.2 Were valid sampling techniques employed that	M	Random Sampling as per 2018 HEDIS
protected against bias? Specify the type of		Technical Specifications was used.
sampling or census used:		
5.4 Did the sample contain a sufficient number of	M	411 members
enrollees?		

# **Step 6: Review Data Collection Procedures**

Component/Standard	Score	Comments
6.1 Did the study design clearly specify the data to	M	Home State Health provides a description
be collected?		and explanation of how HEDIS data was
		obtained and numerators and denominators



		were included as per HEDIS 2018
		Technical Specifications.
6.2 Did the study design clearly specify the	M	Home State Health defined the sources of
sources of data?		data including internally obtained
		administrative data and year-round medical
		record retrieval. Home State Health utilizes
		an independent contractor for hybrid
		medical record review and evaluation.
6.3 Did the study design specify a systematic	M	Home State Health's oversight processes
method of collecting valid and reliable data that		include the utilization of NCQA-certified
represents the entire population to which the		HEDIS auditors to validate both
study's indicators apply?		administrative and hybrid methodology.
6.4 Did the instruments for data collection provide	M	Home State Health uses QSI XL, an
for consistent and accurate data collection over the		NCQA-certified HEDIS software, to
time periods studied?		analyze claims data to determine
		compliance with this measure. Also utilizes
		an NCQA-certified medical record retrieval
		abstraction vendor to complete the hybrid
		data process. The annual report of this
		measure is also audited by an NCQA-
		certified HEDIS auditor.
6.5 Did the study design prospectively specify a	M	Data collected for this measure consisted
data analysis plan?		of administrative claims using American
		Medical Association's (AMA) Current
		Procedural Terminology (CPT) codes as
		well as non-claims administrative data.
6.6 Ware qualified staff and personnal used to	M	Certified Professionals in HealthCare
6.6 Were qualified staff and personnel used to collect the data?	1 <b>VI</b>	
		Quality holding degree in Nursing were involved in the data collection.



Component/Standard	Score	Comments
7.1 Was an analysis of the findings performed	M	Home State Health measured success
according to the data analysis plan?		according to the data analysis plan
		evaluating CY 2016 (baseline) and CY 2017
		performance for CIS (combo 10) rates.
7.2 Were numerical PIP results and findings	M	Home State Health displayed results and
accurately and clearly presented?		findings clearly and accurately through
		tables and graphs, as well as providing a
		narrative qualitative analysis.
7.3 Did the analysis identify: initial and repeat	M	Home State Health utilized chi square
measurements, statistical significance, factors that		statistical significance testing to evaluate
influence comparability of initial and repeat		performance. Home State Health
measurements, and factors that threaten internal		demonstrated statistically significant
and external validity?		increases in the rates of Combo 10 in the
		Western region between CY 2016 and CY
		2017. No threats to external validity exist.
		Due to the random sampling methodology,
		no threats to internal validity existed. Results
		were measured for CIS (combo 10) HEDIS
		rate annually and compared from previous
		years.
7.4 Did the analysis of study data include an	M	Home State Health's CIS rates (combo 10)
interpretation of the extent to which its PIP was		did not increase as expected. The MCO
successful and follow-up activities?		plans to continue the infrastructure
		interventions, however, Home State Health
		will assess its more direct, member-facing
		interventions for effectiveness, and begin
		focusing on increasing provider
		involvement, capturing immunization

# Step 7: Review Data Analysis and Interpretation of Study Results



administrations, and validation of data
output analysis.

## **Step 8: Assess Improvement Strategies**

Component/Standard	Score	Comments
8.1 Were reasonable interventions undertaken to	PM 😐	Home State Health provided a narrative
address causes/barriers identified through data		explanation about the interventions
analysis and QI processes undertaken?		undertaken to address barriers. However,
		some of them were ongoing from previous
		years and others were implemented in later
		quarters of CY2017. So specific
		interventions for CY 2017 PIP and their
		impact could not be measured in the given
		time frame.
8.2 Are the interventions sufficient to be expected	PM 😑	Though Home State Health specifically
to improve processes or outcomes?		outlined the root causes/barriers addressed,
		potential impact, and outcome
		obtained/anticipated for ongoing
		interventions, the impact of each
		intervention could not be measured and the
		interventions started at different times
		throughout the year at the State level.
8.3 Are the interventions culturally and	Met	For EPSDT outreach programs, Home
linguistically appropriate?		State Health adhere to fourth grade level
		readability standards on all materials and
		scripts. The EPSDT postcard utilized in the
		outreach program in particular contains
		verbiage that directs members to
		information in their preferred language. In
		addition, Home State Health contracts with



the language interpreter service, Voiance, to
provide language translation services to
members who call Home State Health.

# Step 9: Assess Whether Improvement is "Real" Improvement

Step 7. Assess whether improvement is		
Component/Standard	Score	Comments
9.1. Was the same methodology as the baseline	M	Home State Health utilized the same
measurement used when measurement was		methodology for member eligibility, data
repeated?		collection, and analysis.
9.2. Was there any documented, quantitative	NM	Between H2017 and H2018 (CY 2016 and
improvement in processes or outcomes of care?		CY 2017), the statewide CIS Combo 10 rate
		increased by 2.97 % points which is not
		statistically significant, and the rates in each
		individual region increased as well.
9.3 Does the reported improvement in performance	NM	The interventions could not be tied to the
have "face" validity (i.e., does the improvement in		improvement. Home State Health did not
performance appear to be the result of the planned		meet the established goal for this PIP.
quality improvement intervention)?		However, Home State Health experienced
		Combo 10 CIS rate increases in all regions
		that could be attributed to the improved
		access to, collection of, and reporting of non-
		standard supplemental data.
9.4 Is there any statistical evidence that any	NM	The increase in Statewide CIS combo 10 rate
observed performance improvement is true		is not statistically significant.
improvement?		



#### **Step 10: Assess Sustained Improvement**

Component/Standard	Score	Comments
10.1 Was sustained improvement demonstrated	NM	Home State Health experienced increases in
through repeated measurements over comparable		Combo 10 rates statewide and in all regions
time periods?		between CY 2016 and CY 2017. These results
		could not be attributed to the interventions for
		CY 2017, specific to this PIP.

#### **ACTIVITY 2: VERIFYING STUDY FINDINGS (OPTIONAL)**

Component/Standard	Score	Comments
1.1 Were the initial study findings verified upon	N/A	
repeat measurement?		

## ACTIVITY 3: EVALUATE OVERALL VALIDITY AND RELIABILITY OF STUDY RESULT AND SUMMARY OF AGGREGATE VALIDATION FINDINGS

Result:

High confidence in reported PIP results
Confidence in reported PIP results
Low confidence in reported PIP results
Reported PIP results not credible

#### Summary

Between H2017 and H2018 (CY 2016 and CY 2017), the statewide CIS Combo 10 rate increased by 2.97 percentage points which is not statistically significant. The rates in each individual region increased as well. But the aim of the PIP to increase the CIS Combo 10 rate Statewide by 3% point could not be achieved. Multiple interventions were in place from the past years as well as throughout the measurement year. Impact of an intervention could not be evaluated. For these reasons the PIP is assigned a **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 and interventions were poorly executed and could not be linked to the improvement.

#### PERFORMANCE IMPROVEMENT PROJECT VALIDATION WORKSHEET (B)

Date of evaluation: July 9, 2018



MCO Name or ID:	Home State Health
Name of Performance Improvement Project:	Improving Access to Oral Healthcare
Dates in Study Period:	Jan 1, 2017- Dec 31, 2017
Demographic Information:	Number of Medicaid/CHIP enrollees in MCO: 271,445
	Number of Medicaid/CHIP enrollees in Study: 62,979

Score: Met (M) •/Not Met (NM) •/ Partially Met (PM) •/Not Applicable (N/A)

#### **ACTIVITY 1: ASSESS THE STUDY METHODOLOGY**

## **Step 1: Review the Selected Study Topic(s)**

Component/Standard	Score	Comments
1.1 Was the topic selected through data	M	Home State Health developed the topic for this
collection and analysis of comprehensive		Oral Health PIP using the Statewide Improving
aspects of specific MCO enrollee needs,		Oral Health Initiative as the basis, analyzed
care, and services?		population data pertinent to their membership to
		enhance the discussion surrounding the
		importance of and access to annual dental visits.
1.2 Is the PIP consistent with the	M	86% of Home State Health's members were
demographics and epidemiology of the		children under 20 years of age. Year-over-year
enrollees?		analysis of Home State Health's ADV rates
		demonstrate less than 50% of these children
		have evidence of having completed an annual
		dental visit.
1.3 Did the PIP consider input from enrollees	M	All members between 2 and 20 years of age
with special health needs, especially those with		with no evidence of an annual dental visit are
mental health and substance abuse problems?		provided education and guidance related to the
		importance of oral health care and the benefits
		of completing at least one annual dental visit.



		Home State Health included all members that met the H2018 HEDIS technical specifications for inclusion in the ADV measure. Members with special health needs were not excluded from this PIP.
1.4 Did the PIP, over time, address a broad spectrum of key aspects of enrollee care and services (e.g., preventive, chronic, acute, coordination of care, inpatient, etc.)?	M	Home State Health's Oral Health PIP is in coordination with the statewide Improving Oral Health Initiative and is focused on increasing the ADV rates and improving deficiencies in oral health care of our members.
1.5 Did the PIP, over time, include all enrolled populations (i.e., special health care needs)?	M	All members eligible for dental care were addressed in the PIP. Consistent with the Statewide Oral Health Initiative, and using the HEDIS Tech Specifications, this PIP was structured to address members ages 2-20.

# **Step 2: Review the Study Question(s)**

Component/Standard	Score	Comments
2.1 Was/were the study question(s) measurable	PM 😑	The study question was measurable but not
and stated clearly in writing?		clearly stated. The measurement year,
		baseline year and the rates for baseline year
		and goal for measurement year, should be
		clearly written. The study question was as
		follows:
		'Will implementing the proposed
		interventions to Home State Health members
		between ages 2 through 20 increase the ADV
		rate per the HEDIS specifications by 3
		percentage points between Home State
		Health's HEDIS 2017 (H2017) and HEDIS



	2018 (H2018) results?'
	2010 (112010) 103dits.

## **Step 3: Review the Identified Study Populations**

Component/Standard	Score	Comments
3.1 Were the enrollees to whom the study question and indicators are relevant clearly defined?	M	All Home State Health members ages 2 through 20, enrolled on Dec 31 of the measurement year (CY 2017), who were continuously enrolled during the measurement year with no more than one gap in enrollment of up to 45 days during the measurement year were included as denominator.
3.2 If the entire population was studied, did its data collection approach capture all enrollees to whom the study question applied?	M	The data collection procedures were consistent with the use of HEDIS methodologies.

## Step 4: Review Selected Study Indicator(s)

Component/Standard	Score	Comments
4.1 Did the study use objective, clearly defined, measurable indicators (e.g., an event or status that will be measured)?	M	HEDIS ADV rate (Administrative measure) was the indicator used to assess the outcome of PIP.
4.2 Did the indicators track performance over a Specified period of time?	PM <b>•</b>	The performance for CY 2017 was tracked on a quarterly and an annual basis as stated by Home State Health, but quarterly data was not submitted. It should be measured and plotted on a run chart to show the impact of interventions on a more frequent basis. The analysis of the effectiveness of telephonic
		interventions on a more freq



		depicted weekly for the duration of the initiative following the implementation on September 19, 2017.
4.3 Are the number of indicators adequate	PM <mark>–</mark>	HEDIS ADV rate was the indicator used to
to answer the study question; appropriate for the		answer the study question. No other indicator
level of complexity of applicable medical practice		was used to assess the impact of interventions.
guidelines; and appropriate to the availability of		
and resources to collect		
Necessary data?		

# **Step 5: Review Sampling Methods**

Component/Standard	Score	Comments
5.1 Did the sampling technique consider and	N/A	No sampling methods were used in this PIP.
specify the true (or estimated) frequency of		
occurrence of the event, the confidence interval to		
be used, and the acceptable margin of error?		
5.2 Were valid sampling techniques employed that	N/A	Same comment as above.
protected against bias? Specify the type of		
sampling or census used:		
5.4 Did the sample contain a sufficient number of	N/A	Same comment as above.
enrollees?		

# **Step 6: Review Data Collection Procedures**

Component/Standard	Score	Comments
6.1 Did the study design clearly specify the data to	o M	The administrative method for collecting
be collected?		HEDIS data from Envolve Dental claims files



		and ingest that data into the Centene
		Enterprise Data Warehouse and ultimately,
		QSI XL is stated in the PIP.
6.2 Did the study design clearly specify the	M	The sources of data, its collection is
sources of data?		explained. Dental claims data are gathered end
		loaded into the Centene Enterprise Data
		Warehouse.
6.3 Did the study design specify a systematic	M	Administrative data is used to produce the
method of collecting valid and reliable data that		HEDIS ADV rates.
represents the entire population to which the		
study's indicators apply?		
6.4 Did the instruments for data collection provide	M	Home State Health uses QSI XL, an NCQA-
for consistent and accurate data collection over the		certified HEDIS software, to analyze claims
time periods studied?		data to determine compliance with this
		measure. The annual report of this measure is
		also audited by an NCQA-certified HEDIS
		auditor.
6.5 Did the study design prospectively specify a	M	Administrative claims were gathered using
data analysis plan?		the American Dental Association's (ADA)
		Current Dental Terminology (CDT) and the
		American Medical Association's (AMA)
		Current Procedural Terminology (CPT) codes
		as well as non-claims administrative data.
		Envolve Dental sends Centene Corporation
		claims files for Home State Health members
		on a monthly basis. These supplemental data
		files are loaded into Centene's Enterprise Dat
		Warehouse (EDW).



6.6 Were qualified staff and personnel used to	M	Certified Professionals in HealthCare Quality
collect the data?		holding degree in Nursing were involved in
		the data collection.

# **Step 7: Review Data Analysis and Interpretation of Study Results**

Component/Standard	Score	Comments
7.1 Was an analysis of the findings performed	M	Home State Health completed analysis of the
according to the data analysis plan?		study outcomes as per their submission of
		data analysis plan.
7.2 Were numerical PIP results and findings	M	Tables and Figures represent the results of
accurately and clearly presented?		the AlphaPointe outreach as well as year over
		year HEDIS rates focusing on H2017
		compared to H2018.
7.3 Did the analysis identify: initial and repeat	M	Home State Health utilized chi square
measurements, statistical significance, factors that		statistical significance testing to evaluate
influence comparability of initial and repeat		performance There were no threats to either
measurements, and factors that threaten internal		internal or external validity. Results were
and external validity?		measured for HEDIS ADV rates annually
		and compared from previous years. Repeat
		measurements at regular intervals were not
		submitted.
7.4 Did the analysis of study data include an	M	From analysis of the raw HEDIS ADV data,
interpretation of the extent to which its PIP was		Home State Health's ADV rates did not
successful and follow-up activities?		increase as expected. The potential reasons
		have been explained in the narrative
		submitted by Home State Health.

## **Step 8: Assess Improvement Strategies**

Component/Standard	Score	Comments



		Primaris Healthcare Business Solutions
	Store	Comments
	Score	Comments
Step 9: Assess Whether Improvement is	 "Real" In	
		verbal and written member communications.
		hinges on our being culturally aware in our
		of the community one person at a time"
		Health's mission of "Transforming the health
iniguistically appropriate?		experience. The success of Home State
linguistically appropriate?	111	training on cultural sensitivity and member
8.3 Are the interventions culturally and	M	Home State Health employees are provided
		at the State level.
		started at different times throughout the year
		could not be measured and the interventions
		interventions, the impact of each intervention
		obtained/anticipated for ongoing
		potential impact, and outcome
to improve processes or outcomes?		outlined the root causes/barriers addressed,
8.2 Are the interventions sufficient to be expected	PM 😐	Though Home State Health specifically
		measured in the given time frame.
		CY 2017 PIP and their impact could not be
		quarters of CY2017. Specific interventions for
		years and others were implemented in later
		some of them were ongoing from previous
analysis and QI processes undertaken?		undertaken to address barriers. However,
address causes/barriers identified through data		explanation about the interventions
8.1 Were reasonable interventions undertaken to	PM 😐	Home State Health provided a narrative

9.1 Was the same methodology as the baseline	M	The study used administrative methodology
measurement used when measurement was		from the HEDIS Technical Specifications for
repeated?		both the baseline and repeat measurements.
9.2 Was there any documented, quantitative	M	Between H2017 and H2018, Home State
improvement in processes or outcomes of care?		Health's statewide ADV rate increased 1.72
		percentage points, and the rate in each
		individual region increased as well. Chi-
		square testing revealed that the increases
		statewide and in the Eastern region between
		H2017 and H2018 – were both statistically
		significant.
9.3 Does the reported improvement in performance	NM	Based on the increase in ADV rates in the
have "face" validity (i.e., does the improvement in		statewide as well as 3 regional rates, it appears
performance appear to be the result of the planned		the increased compliance performance
quality improvement intervention)?		reported is valid. However, It is not clear that
		the percentage point increases are directly
		related to the planned quality improvement
		interventions.
9.4 Is there any statistical evidence that any	M	Chi-square testing, revealed that the increase
observed performance improvement is true		in statewide and in the Eastern region betweer
improvement?		H2017 and H2018 – were both statistically
		significant.

Step 10: Assess Sustained Improvement



Component/Standard	Score	Comments
10.1 Was sustained improvement demonstrated	NM	Despite decreases in ADV rates the previous
through repeated measurements over comparable		two years, Home State Health experienced an
time periods?		increase in ADV between H2017 and H2018.
		Home State Health has committed to a
		number of long term projects designed to
		empower providers with the ability to identify
		non-compliant members and to conduct
		assessments, treatments and referral of
		members with oral health problems. Home
		State Health has also promoted long-term
		plans for members to develop a dental home,
		receive electronic communication regarding
		oral health, receive fluoride varnish, and
		increase choices for dental access.

### **ACTIVITY 2: VERIFYING STUDY FINDINGS (OPTIONAL)**

Component/Standard	Score	Comments
1.1 Were the initial study findings verified upon	N/A	
repeat measurement?		



## ACTIVITY 3: EVALUATE OVERALL VALIDITY AND RELIABILITY OF STUDY RESULT AND SUMMARY OF AGGREGATE VALIDATION FINDINGS

#### **Result:**

High confidence in reported PIP results
Confidence in reported PIP results
Low confidence in reported PIP results
Reported PIP results not credible

#### Summary

Between H2017 and H2018 (CY 2016 and CY 2017), the statewide ADV rate increased by 1.72 % points which is statistically significant, and the rates in each individual region increased as well. But the aim of the PIP to increase by 3% point could not be achieved. Multiple interventions were in place from the past years as well as throughout the measurement year. Impact of an intervention could not be evaluated. For these reasons the PIP is assigned a **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 and interventions were poorly executed and could not be linked to the improvement.

