

**HEALing Communities Quality Measures Databook**

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| **Prepared By:** | **KPMG** |
| **Date:** | **08/03/2023** |

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# Versions

|  |  |  |  |
| --- | --- | --- | --- |
| Version | Prepared By | Date | Notes |
| Version 1 | KPMG | 08/03/2023 |  |
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# Background

The HEALing Communities Study is an ongoing research study initiated by the National Institutes of Health to evaluate the effectiveness and implementation of community-based interventions for reducing opioid overdose deaths. Currently, there are 4 states that are involved in the study: Kentucky, Massachusetts, New York, and Ohio. The study involves implementing evidence-based interventions in four key areas:

1. Increasing the availability and distribution of naloxone,
2. Enhancing access to medication-assisted treatment,
3. Improving the quality of pain management practices, and
4. Preventing the initiation of opioid use.

The Office of Quality and Patient Safety (OQPS) and DDSA have worked with the HEALing Communities Team to develop measures to monitor the effectiveness of the interventions. The measures developed by OQPS (referred to as OQPS-developed measures in this document) can be found using the CDMOWN schema in the VPDW, while the measures developed by DDSA are known as the HEAL Economic measures. The HEAL Economic measures utilize tables that span the database such as CLAIM\_TRANS and MA\_ENROLLMENT\_V3.

This Databook utilizes the HEALing Communities Study Quality Measures to monitor the state of the Opioid Epidemic in New York State. The quality measures included give insight on prevalence of Opioid Use Disorders, treatment metrics, etc.

# Audience

* Office of Health Insurance Program (OHIP) Leadership
* Pharmacy Program executives and professionals
* Bureau of Adult Special Populations executives and professionals

# Analysis Roles/Responsibility Matrix

|  |  |  |
| --- | --- | --- |
| Organization | Personnel | Role |
| KPMG | KPMG Amendment 7 Team | * Query development and dashboard prototyping * Draft documentation and training material development |
| DDSA | Miller, Melissa  Ulukaya, Ayse  Locke, Meredith | * Requirements gathering and project management * QA of query, dashboards, and documentation |
| Pharmacy Program Team | Berger, Tracy  Dr. Harrison, Myla | * Program Review and Sign-Off |
| Bureau of Adult Special Populations | Master, Sarina | * Program Review and Sign-Off |

# Objective/Use Cases

Use Cases:

1. In Calendar Year 2021, how many members in Erie County have an OUD Diagnosis?
2. In Federal Fiscal Year 2020, what is the percent of members with OUD receiving MOUD in Westchester County?
3. In State Fiscal Year 2021, what is the percent of FFS members with OUD receiving Behavioral Health Treatment (screening)?
4. What is the trend by Coverage Type for Measure 2.6.6: Number of Individuals with OUD receiving behavioral health treatment (peer support) by State Fiscal Year?
5. What is the rate for Measure 4.6.3: Number of Opioid Related Oral Naltrexone Days Supplied for Asian or Pacific Islander Members in Calendar Year 2019?
6. What is the general relationship between Measure 2.4: Number of Individuals with Opioid Use Disorder (prevalence) and Measure 2.5.5: Number of Individuals with Opioid Use Disorder (OUD) Receiving buprenorphine products that are FDA approved for treatment of OUD in Calendar Year 2021?
7. What is the general relationship between Measure 2.4: Number of Individuals with Opioid Use Disorder (prevalence) and Measure 2.5.2: Number of Individuals with Opioid Use Disorder (OUD) Receiving Methadone for members ages 18 and up in Calendar Year 2021?

# Design Choices (Project Design Requirements as identified by DDSA and OHIP Program)

## Data Requirements

* Population:
  + Dual eligible members are excluded from all HEAL analysis (both OQPS-developed and HEAL Economic measures).
  + OQPS-developed measures have additional restrictions:
    - Members receiving hospice care are excluded from analysis.
    - Specific measures have continuous enrollment, age, and anchor date eligibility requirements—please see the accompanying *HEALing Communities Quality Measure Databook Measure Descriptions* document.
* Rolling Month Timeline:
  + OQPS-developed quality measures in CDMOWN are refreshed on a yearly basis with an 18-month lag.
  + The HEALing Communities Economic measures can be refreshed at any frequency needed. The scripts utilize MISOWN.CLAIM\_TRANS and therefore have a 6-month lag.
* Measures:
  + Quality measures created using claims/encounter data with service dates from 1/1/2017 to 6/30/2022.
  + Not all OQPS-developed quality measures are built out to go back to 1/1/2017
    - The following measures are not available prior to Federal Fiscal Year/State Fiscal Year 2020:
      * 2.4 - Number of Individuals with Opioid Use Disorder (prevalence)
      * 2.5.2 - Number of Individuals Receiving Methadone
      * 2.5.4 - Number of Individuals with Opioid Use Disorder (OUD) Receiving Medication for Opioid Use Disorder (MOUD) - [Hypothesis H3]
      * 2.5.5 - Number of Individuals with Opioid Use Disorder (OUD) Receiving buprenorphine products that are FDA approved for treatment of OUD
      * 2.9 - Number of Individuals Linked to MOUD following Opioid Overdose
      * 2.12 - Number of Individuals Linked to MOUD following Opioid-related ED Visit within 31 days
    - The following measures are not available prior to Calendar Year 2019:
      * 2.9 - Number of Individuals Linked to MOUD following Opioid Overdose
      * 2.12 - Number of Individuals Linked to MOUD following Opioid-related ED Visit within 31 days
  + The OQPS-developed measures are extracted using CDMOWN.MSR\_RESULT\_CY and CDMOWN.MSR\_RESULT\_RY.
  + The HEALing Communities Economic measures were built up using previous scripts that use MISOWN.CLAIM\_TRANS.

## Data Assumptions/Constraints

* OQPS-developed measures are taken from CDMOWN.MSR\_RESULT\_CY and CDMOWN.MSR\_RESULT\_RY in which the following restrictions are placed:
  + Dual eligible members are excluded from all HEAL analysis (both OQPS-developed and HEAL Economic measures).
  + Members receiving hospice care are excluded from analysis.
  + Specific measures have continuous enrollment, age, and anchor date eligibility requirements—please see the accompanying *HEALing Communities Quality Measure Databook Measure Descriptions* document.
* OQPS-developed measures are **only** available for qualifying members.
* Due to the restrictions placed on MSR\_RESULT\_CY and MSR\_RESULT\_RY (see above), there are inconsistencies between the numerator and denominator values for Measure 2.4 - Number of Individuals with Opioid Use Disorder (prevalence)
  + The numerator value for Measure 2.4 counts the number of members with an OUD diagnosis in the measurement period as identified by the OQPS-developed measure—only a subset of members is eligible for the measure as outlined above.
  + The denominator value for Measure 2.4 counts unique non-dual Medicaid enrollees during any point during the measurement period—but does not specifically exclude members receiving hospice care.
* The Numerator value for Measure 2.4 – Number of Individuals with Opioid Use Disorder (prevalence) and the denominator values that count individuals with OUD (measures 2.5.2, 2.5.3, 2.5.4, 2.5.5, 2.6.1, 2.6.2, 2.6.3, 2.6.4, 2.6.5, 2.6.6., 2.6.7, 2.6.8) are not equal.
  + The numerator value for Measure 2.4 counts number of individuals with OUD within the measurement period — but does not specifically exclude members receiving hospice care.
  + The denominator values for the measures listed above counts number of individuals with OUD within the measurement period *and 12 months preceding the measurement period.*

## Table of Data Definitions (may come from Governance document, if there is one)

Please refer to Reference Document #10 for Quality Measure Descriptions.

## DDSA Design Approach (Pseudo Code that can be used in conjunction with the SQL embedded in Reference Table during Peer Review)

*Steps 1 - 4 assemble OQPS-developed measures*

* **STEP #1:** Create a helper table (HEAL\_HELP) that links measure numerator values and denominator values together via MSR\_COMP\_ID. The CSV for this can be found in the reference documents below (Reference Document #6)
* **STEP #2:** Create a table (HEAL\_NUM) that pulls the numerator value for each MSR\_COMP\_ID, MBR\_ID, and MSR\_YR.
* **STEP #3:** Create a table (HEAL\_DEN) that pulls the denominator value for each MSR\_COMP\_ID, MBR\_ID, and MSR\_YR.
* **STEP #4:** Create a table (HEAL\_BASE) that returns the numerator and denominator values using HEAL\_DEN (from Step #3), HEAL\_NUM (from Step #2), and HEAL\_HELP (from Step #1) for each MSR\_COMP\_ID, MSR\_CATG\_DESC, YEAR\_TYPE, MBR\_RES\_COUNTY, MBR\_AGE, MC\_FFS, PLAN\_NAME\_STD, DUAL\_IND, and RACE\_DESCRIPTION combination.

*Steps 5 - 6 assemble the HEAL Economic measures*

* **STEP #5:** Run the HEAL\_ECON\_DEN script in the reference document (Reference Document #4) below to create denominator values for the HEALing Communities Economic measures. This script uses HEAL\_NDC (found in Reference Document #3).
* **STEP #6:** Run the HEAL\_ECON\_NUM script in the reference document (Reference Document #5) below to create numerator values for the HEALing Communities Economic measures. This script consolidates the numerator and denominator values into one table and inserts those values within HEAL\_BASE (from Step #4).

## Data Table Matrix (New Tables Created by Developer)

Final – A table that is critical to the operation of the Tableau file

Base – A table that aggregates all information in MDW source tables that is relevant to this databook.

Intermediate – A “helper” table that transforms data in Base tables for more efficient usage in Intermediate tables.

|  |  |
| --- | --- |
| Table Name | Table Type |
| HEAL\_NUM | Base |
| HEAL\_DEN | Base |
| HEAL\_YEAR | Intermediate |
| HEAL\_NDC | Intermediate |
| HEAL\_BASE | Final |
| HEAL\_HELPER | Final |
| HEAL\_RUN | Final |

## 

## Data Output Format (This represents every unique field used in Tableau including most calculated fields):

|  |  |  |  |
| --- | --- | --- | --- |
| Data Element | Databook Label | MDW Data Source/Table | Data Element Business Rule |
| MSR\_ID | Measure ID | CDMOWN.MSR\_COMP |  |
| MEASURE\_NUM | Measure Number | CDMOWN.MSR\_COMP |  |
| YEAR\_TYPE | Year Type | CDMOWN.MSR\_YR | Calendar Year: January - December  State Fiscal Year: April – March  Federal Fiscal Year: October – September |
| MSR\_YR | Year | CDMOWN.MSR\_YR |  |
| MEASURE\_DESC | Measure | HEAL\_HELPER |  |
| MBR\_RES\_COUNTY | Residential County | DATABOOK.MA\_ENROLLMENT\_V3 |  |
| AGE\_GROUP | Age Group | DATABOOK.MA\_ENROLLMENT\_V3 | 0-4,  5-9,  10-14,  15-17,  18-21,  22-24,  25-34,  35-44,  45-54,  55-64,  65 and over,  unavailable |
| PLAN\_GROUP | Coverage Type | DATABOOK.MA\_ENROLLMENT\_V3 | FFS  HARP  HIV SNP  Medicaid Managed Care  MLTC |
| DUAL\_IND | Dual Eligibility Indicator | DATABOOK.MA\_ENROLLMENT\_V3 | Dual  Non-Dual |
| RACE\_DESCRIPTION | Race Description | DATABOOK.MA\_ENROLLMENT\_V3 | Black- Not of Hispanic Origin,  White- Not of Hispanic Origin,  Asian or Pacific Islander,  Puerto Rico – Hispanic,  Native American or Alaskan Native,  Other,  Unknown |
| NUM | Numerator | CDMOWN.MBR\_MSR\_COMP\_CY OR  CDMOWN.MBR\_MSR\_COMP\_RY |  |
| DEN | Denominator | CDMOWN.MBR\_MSR\_COMP\_CY OR  CDMOWN.MBR\_MSR\_COMP\_RY |  |
| Rate | Rate | [NUM] / [DEN] |  |
| NUM\_DESC | Numerator Description | HEAL\_HELPER |  |
| DEN\_DESC | Denominator Description | HEAL\_HELPER |  |

## Final Deliverable Format

Version 1 of the HEALing Communities Quality Measure Databook Dashboards contains three dashboards, listed below, to accommodate the use cases previously described.

* **Opioid Use Disorder | Prevalence & Treatment –** This view gives a high-level look at the prevalence of Opioid Use Disorder across New York State, by member residential county. The table on the right also includes treatment measures that give a look into the rate of OUD members receiving Medication for OUD (MOUD) and receiving Behavioral Health Treatment screenings.
  + **Data Source: HEAL\_BASE**

Map

Description automatically generated

* **Quality Measure Overview –** This view allows a user to stratify the quality measures by a selected member property, such as race description, age group, and coverage type.
  + **Data Source: HEAL\_BASE**

Graphical user interface

Description automatically generated

* **Quality Measure Relationship –** This view allows a user to view the relationship between two selected quality measures stratified by member residential county.
  + **Data Source: HEAL\_BASE**

Graphical user interface, text, application, email

Description automatically generated

# 

# Stakeholder Questions and Decision Log

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| # | Question | Source  (Who asked) | Answer  (and Impact) | Date Opened | Date Closed |
| 1 | There are two tables in CDMOWN that can be used to aggregate the OQPS Measures: MBR\_MSR\_COMP\_\* and MSR\_RESULT\_\*. Which one should be used for this Databook? | KPMG | MSR\_RESULT\_\* should be used for this Databook. MBR\_MSR\_RESULT\_\* is a raw base table used by OQPS.  Impact: MSR\_RESULT\_\* has more restrictions on the population.   * + Dual Eligible Members are eliminated   + HOSPICE members are eliminated   + Continuous Enrollment, Age Band, and Anchor Date Eligibility filters are applied to the measures where its required. | 7/24/2023 | 7/24/2023 |
| 2 |  |  |  |  |  |
| 3 |  |  |  |  |  |
| 4 |  |  |  |  |  |

# Reference Documents

|  |  |  |  |
| --- | --- | --- | --- |
| # | Document Title & Description | Document Source | Attachment |
| 1 | Columbia HEAL Documentation | OQPS |  |
| 2 | HEALing Communities Economic Measure Specifications | KPMG |  |
| 3 | HEAL\_NDC\_REF | KPMG |  |
| 4 | HEAL\_ECON\_DEN | KPMG |  |
| 5 | HEAL\_ECON\_NUM | KPMG |  |
| 6 | HEAL\_HELPER | KPMG |  |
| 7 | HEAL\_OQPS | KPMG |  |
| 7 | HEAL\_OQPS\_Specifications | CMA |  |
| 8 | HEAL\_OQPS\_Specifications MOO\_MOED | CMA |  |
| 9 | HEAL\_OQPS\_Specifications MOUD | CMA |  |
| 10 | HEALing Communities Quality Measure Databook Measure Descriptions | KPMG |  |