

OMH Vital Signs Dashboard (VSD) Tableau

User Guide and Resources



**Office of
Mental Health**

Introduction to the Vital Signs Dashboard (VSD)

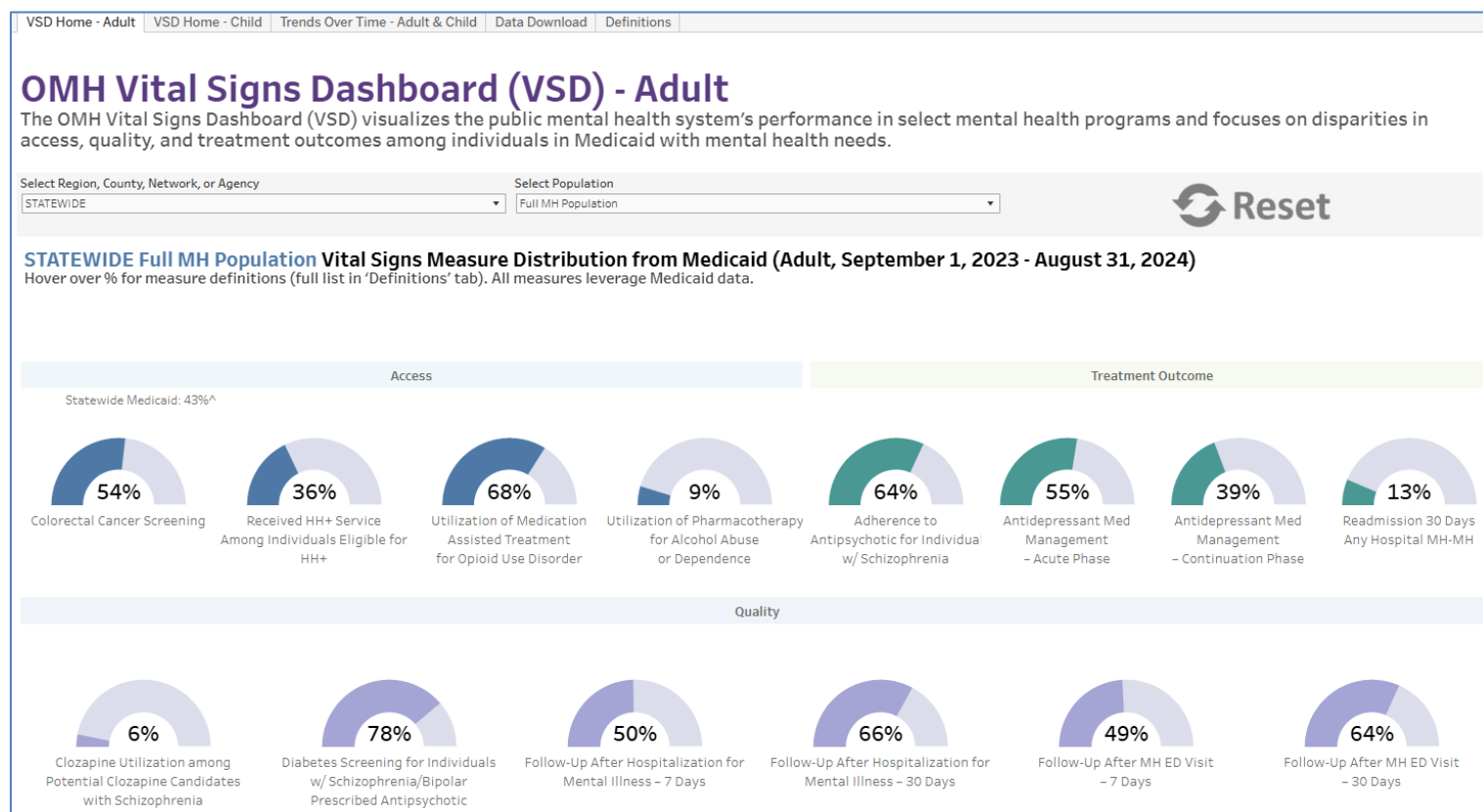
Overview

The Vital Signs Dashboard (VSD) is a Tableau dashboard which can be used to visualize the public mental health system's performance within domains of access, quality, and treatment outcomes. The VSD can help users to identify emerging and persistent disparities, provide input to OMH's quality strategy to improve the public mental health system, assess results of strategic planning and serve as input into program management, and share metrics with county planning and mental health providers for planning and quality improvement purposes. The VSD Tableau (Figure 1) can be accessed through the following web link on the OMH website:

<https://omh.ny.gov/omhweb/tableau/vital-signs.html>

- There is no Protected Health Information (PHI) included in the VSD.
- The link works best on Chrome, Edge, or Safari web browsers and on a desktop.

Figure 1. Sample of OMH VSD Landing Page on Chrome Web Browser



Using the Vital Signs Dashboard

About the Dashboard Tabs

The OMH VSD has 5 dashboard tabs which appear in the top left corner of the screen (Figure 2). All data within the tabs are sourced from Medicaid. Each tab displays different information and are described below:

1. Tab 1: VSD Home – Adult

- This tab displays 14 medical measures within the 3 domains of access, treatment outcomes, and quality.
- Each of the measures included on this tab are relevant for the adult population. The exact age of the individuals included in each measure varies by measure.
- To find out the exact age range of individuals included in each measure, you can hover over the measure for more detailed information. For example, the Colorectal Cancer Screening measure includes adults between the ages of 50-75 years old, while the Adherence to Antipsychotic for Individuals with Schizophrenia measure includes adults between the ages of 18-64 years old.
- This tab is also where you will automatically land when you click the link to access the VSD.

2. Tab 2: VSD Home – Child

- This tab displays 13 medical measures within the 3 domains of access, treatment outcomes, and quality.
- Each of the measures included on this tab are relevant for the child population. The exact age of the individuals included in each measure varies by measure.
- To find out the exact age range of individuals included in each measure, you can hover over the measure for more detailed information. For example, the Readmission 30 Data Any Hospital MH-MH measure includes children between the ages of 1-20 years old, while the Follow-up After MH ED Visit measures include children between the ages of 6-20 years old.

3. Tab 3: Trends Over Time – Adult & Child

- This tab allows you to select one of the medical measures for adult or child populations and view its performance over time.
- The selected medical measure is presented in three charts, by race/ethnicity, gender, and region.
- Using two drop-down menus, you can filter the statistics by region, county, network, or agency and by MH population, including OMH licensed programs or non-OMH licensed providers.
- Details of the measure is included above the visualizations and details of each data point are shown when you hover over it, including numerators and denominators.

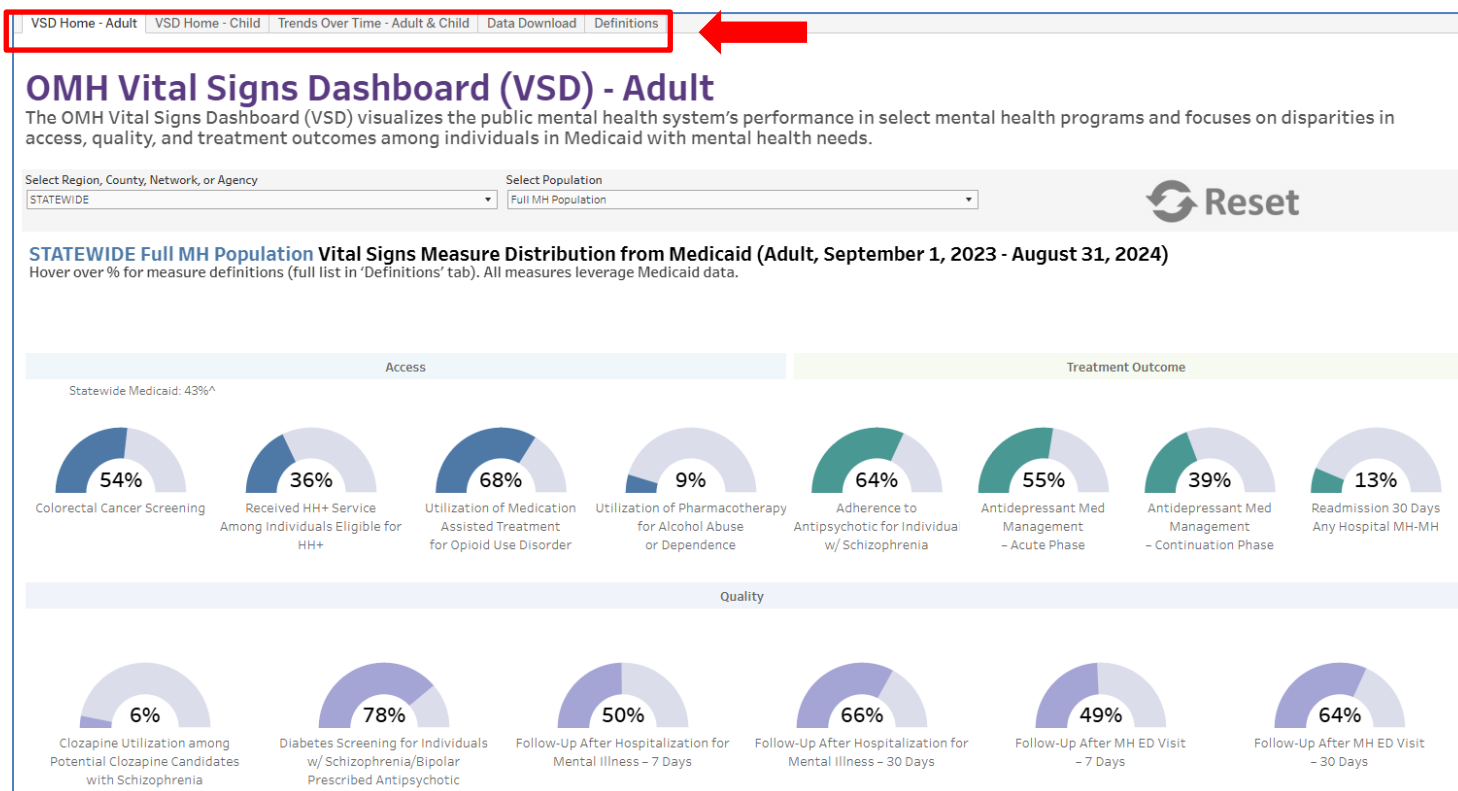
4. Tab 4: Data Download

- This tab has all the same data you can view in both the VSD Home – Adult and VSD Home – Child tabs but only shown in a table view.
- This tab allows you to select specific filters to view the data you are interested in and is useful for downloading and exporting data.

5. Tab 5: Definitions

- This tab provides detailed definitions for all items included in the VSD, including:
 - Domains
 - Child and adult medical measures
 - Agency
 - County
 - Population
 - Program types

Figure 2. OMH VSD Tabs



Navigating Dial Charts

- When you click the link to the VSD and are brought to the VSD Home – Adult tab (Figure 3).
- The dashboard title is dynamic based on the tab you are on, so the title of the dashboard will read “OMH Vital Signs Dashboard (VSD) – Adult.”
- You will automatically see the data filtered by the *statewide* region and by the *full mental health (MH)* population.
- From here, you can choose different filter options.
 - To select a different region, county, network, or agency, use the first drop-down menu on the left (Figure 3).
 - You can scroll through the drop-down menu of options or use the blank space at the top of the drop-down menu to begin typing the name of what you are looking for.
 - To select a different population type, use the second drop-down menu on the right (Figure 4).

- Similarly, you can scroll through the drop-down menu of options or use the blank space at the top of the drop-down menu to begin typing the name of what you are looking for.
- To view the original *statewide* and *full MH population* filters, you can double click the “Reset” button on the top right (Figure 5).
- The same functionality is reflected in the VSD Home – Child tab.

Figure 3. OMH VSD – Adult Tab Region Filter

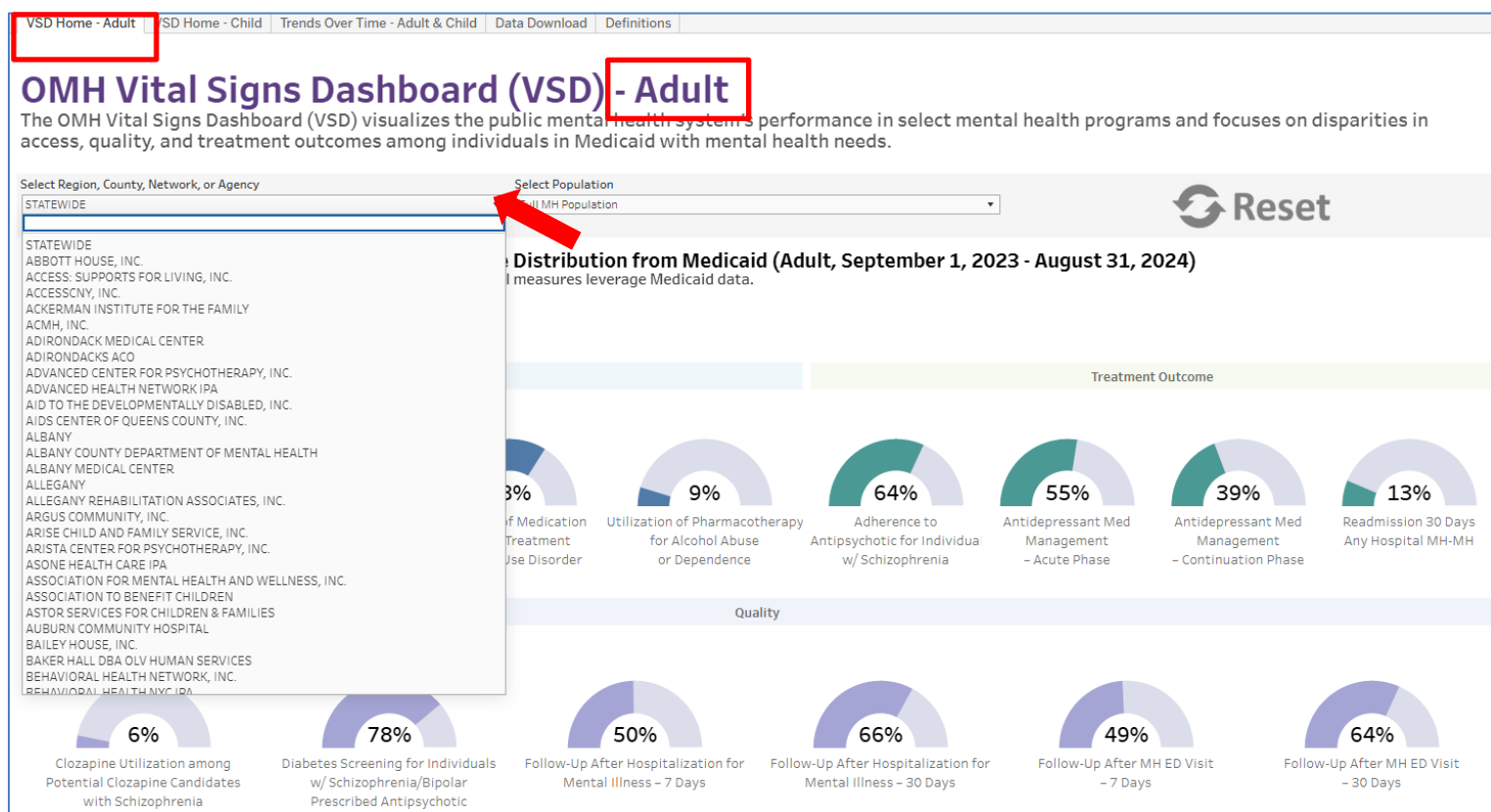


Figure 4. OMH VSD – Adult Tab Population Filter

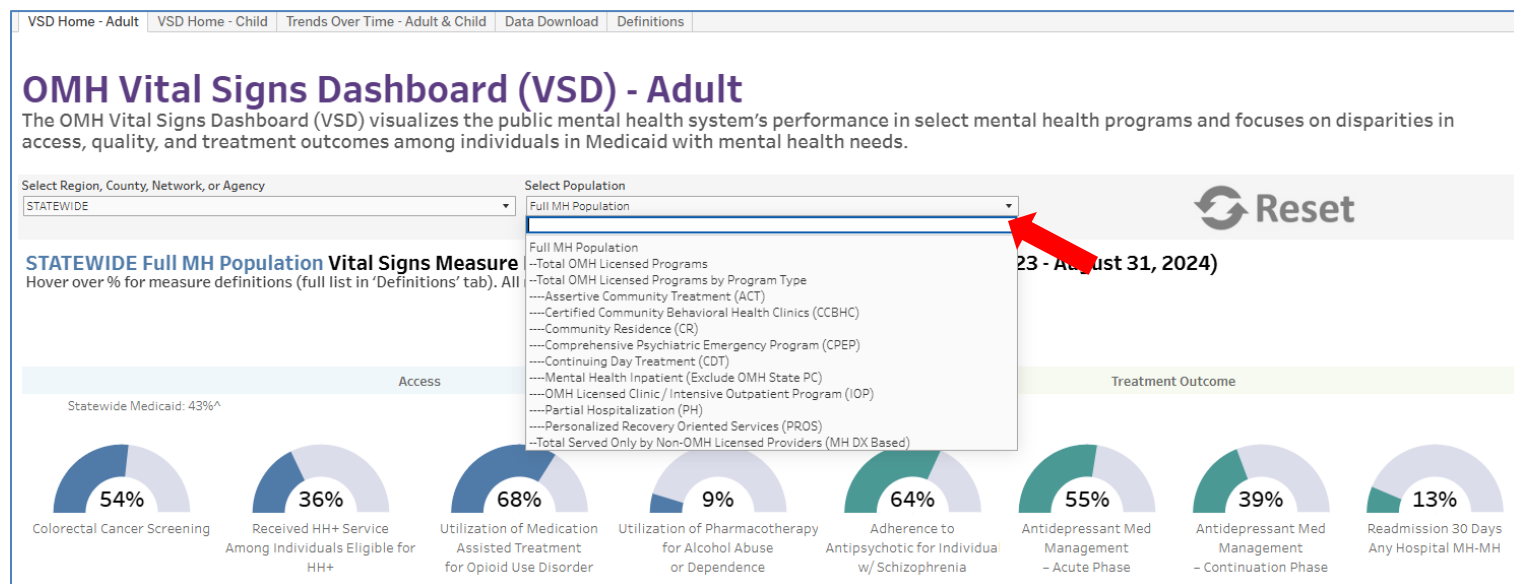
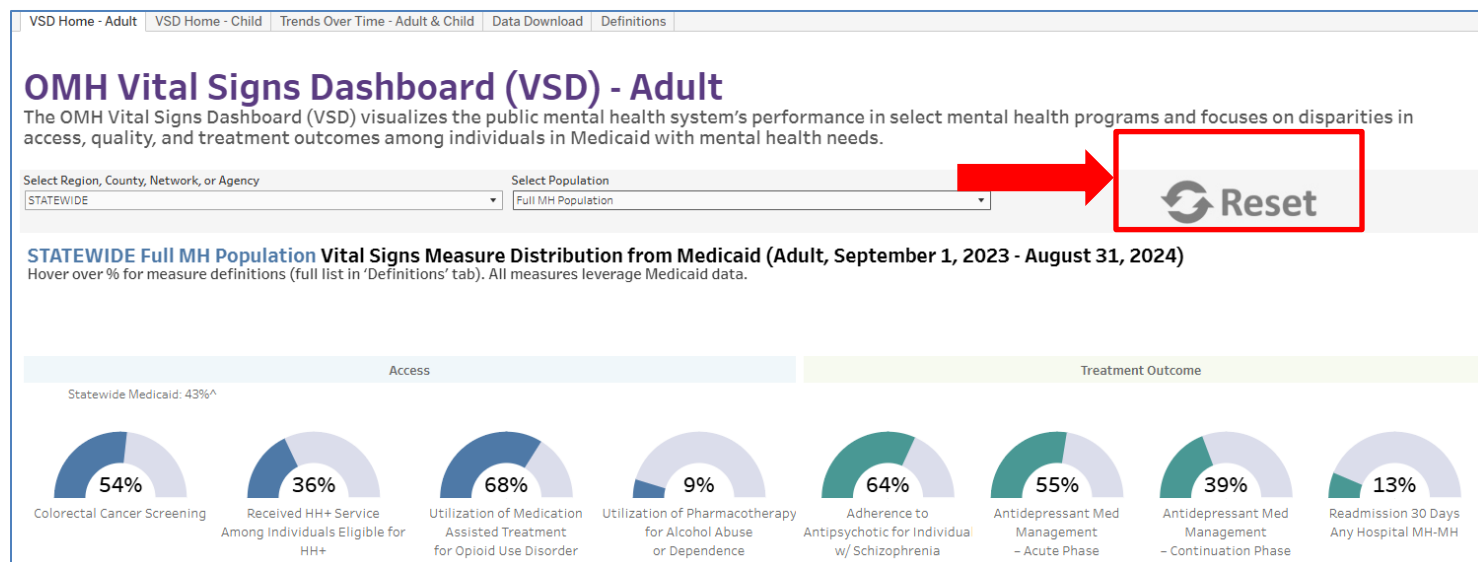


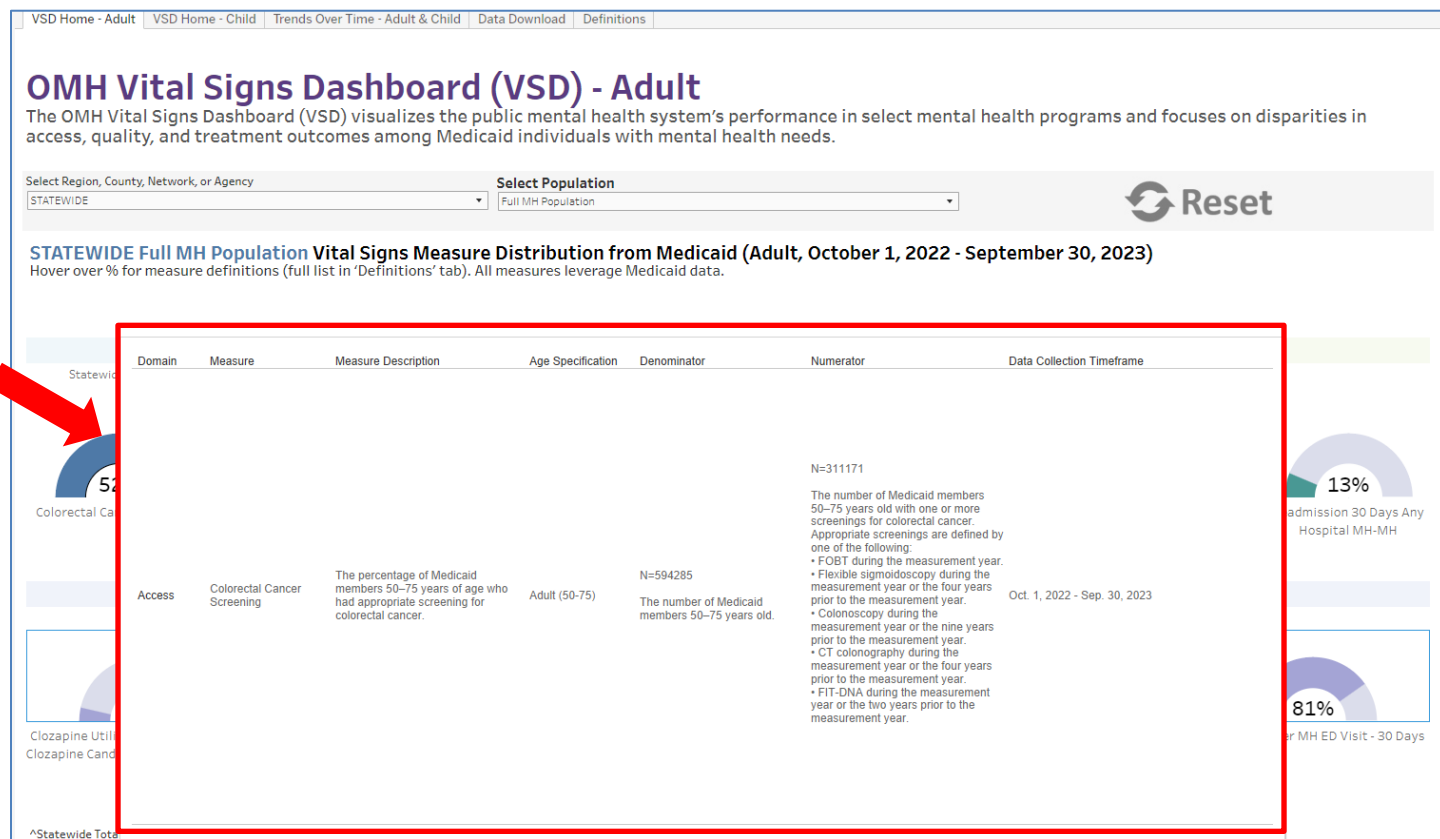
Figure 5. OMH VSD – Adult Tab Reset Button



- Each dial represents data from a different measure within a domain.
- To view detailed information about each measure, you can hover over any dial.
- While hovering over the percentage within the dial a tooltip will appear displaying information about the measure including domain, name, description, age specification, denominator, numerator, and timeframe (Figure 6).

- Although data within the VSD Home – Adult includes only measures relevant for adults and the VSD Home – Child tab includes only measures relevant for children, the specific age specification of each measure is dependent on the measure type.
- All design elements and functionality on the VSD Home – Adult tab are reflected in the VSD Home – Child tab.
- To switch to the child tab, you can click the VSD Home – Child tab in the top left corner of the screen.
- On the child tab, you will see 11 different medical measures, all of which are relevant to the child population.
 - The same hover-over functionality for the dials applies.

Figure 6. OMH VSD – Adult Tab Measure Hover-Over Functionality



Navigating Chart and Table View

- Below the dial charts, in the bottom half of the VSD, is a data table (Figure 7).
- The data table is responsive to the filters chosen at the top of the VSD above the dial charts.
 - By default, the filters are set *statewide* and *full MH population* then those settings will also be reflected in the data table.
 - The title of the data table is also dynamic based on the filter selection, so you will always know what is being reflected in the data table (Figure 7).

Figure 7. OMH VSD – Adult Tab Table Dynamic Title

Select Disparity Population

Race/Ethnicity

Select to View Chart/Table

Table

STATEWIDE Full MH Population Race/Ethnicity (Adult, September 1, 2023 - August 31, 2024)

Statewide Average Performance is Referring to Statewide Full MH Population Average Rate.

Higher than Statewide Average Performance**

Equal to Statewide Average Performance**

Lower than Statewide Average Performance**

Measure	Population	Statewide Average Performance§	Disparity Category	Numerator	Denominator	Percent	Lower than Statewide**	Equal to Statewide**	Higher than Statewide**
Adherence to AP (Schizophrenia)	Full MH Population	64%	Total	17,732	27,826	64%			
			Asian	1,084	1,497	72%			
			Black	5,799	9,658	60%			
			Hispanic	4,163	6,471	64%			
			Multiracial	1,373	2,573	53%			
			Native American	66	115	57%			
			Pacific Islander	48	72	67%			
			White	4,806	6,806	71%			
			Unknown	393	634	62%			
			Antidepressant – Acute Phase	Full MH Population	55%	Total	17,595	31,978	55%
Asian	849	1,608	53%						
Black	2,672	5,515	48%						
Hispanic	4,297	8,038	53%						
Multiracial	2,262	4,261	53%						
Native American	52	104	50%						
Unknown	104	208	50%						

- This data table displays data on the same measures as displayed in the dial charts above but with options for a more detailed view of the data.
- By default, the data is displayed in a table format. However, this data table can be converted to a data chart view.
 - To convert the data table to a data chart view, you can use the filter on the right (Figure 9).
- The data chart view will display the same data available in the data table view but visualized in a different way.

- The data table or data chart view displays the data by domain and measure and can be further stratified by the population characteristic of interest including race/ethnicity, gender, and recipient region.
 - To stratify the data by population characteristic, you can use the filter on the left.
- The table view allows you to easily compare the performance of each group to the performance of the statewide average by using the blue and purple dots on the right side of the table (Figure 8).
- The performance percentage in the table view is color-coded to match that of the dots on the right side of the table. (Key is included above table.)
 - Blue percent and dots represent lower than statewide average performance.
 - Purple percent and dots represent higher than statewide average performance.
 - Black percent and dots represent equal to statewide average performance.

Figure 8. OMH VSD – Adult Tab Table View

Select Disparity Population

Race/Ethnicity

Select to View Chart/Table

Table

STATEWIDE Full MH Population Race/Ethnicity (Adult, September 1, 2023 - August 31, 2024)

§Statewide Average Performance is Referring to Statewide Full MH Population Average Rate.

Higher than Statewide Average Performance**

Equal to Statewide Average Performance**

Lower than Statewide Average Performance**

Measure

Population

Statewide Average Performance§

Disparity Category

Numerator

Denominator

Percent

Lower than Statewide**

Equal to Statewide**

Higher than Statewide**

Adherence to AP (Schizophrenia)

Full MH Population

64%

Total

Asian

Black

Hispanic

Multiracial

Native American

Pacific Islander

White

Unknown

17,732

1,084

5,799

4,163

1,373

66

48

4,806

393

27,826

1,497

9,658

6,471

2,573

115

72

6,806

634

64%

72%

60%

64%

53%

57%

67%

71%

62%

Antidepressant – Acute Phase

Full MH Population

55%

Total

Asian

Black

Hispanic

Multiracial

Native American

17,595

849

2,672

4,297

2,262

52

31,978

1,608

5,515

8,038

4,261

104

55%

53%

48%

53%

53%

50%

- Alternating from the chart to the table view will allow you to both see the data more visually and easily compare across population groups.
- When using the chart view (Figure 9), you can click group names within the key at the top of the chart to select one or more population groups to highlight (Figure 11).
- When using the chart view, you can also hover over population group icons for more detailed information (Figure 10).

Figure 9. OMH VSD – Adult Tab Chart View

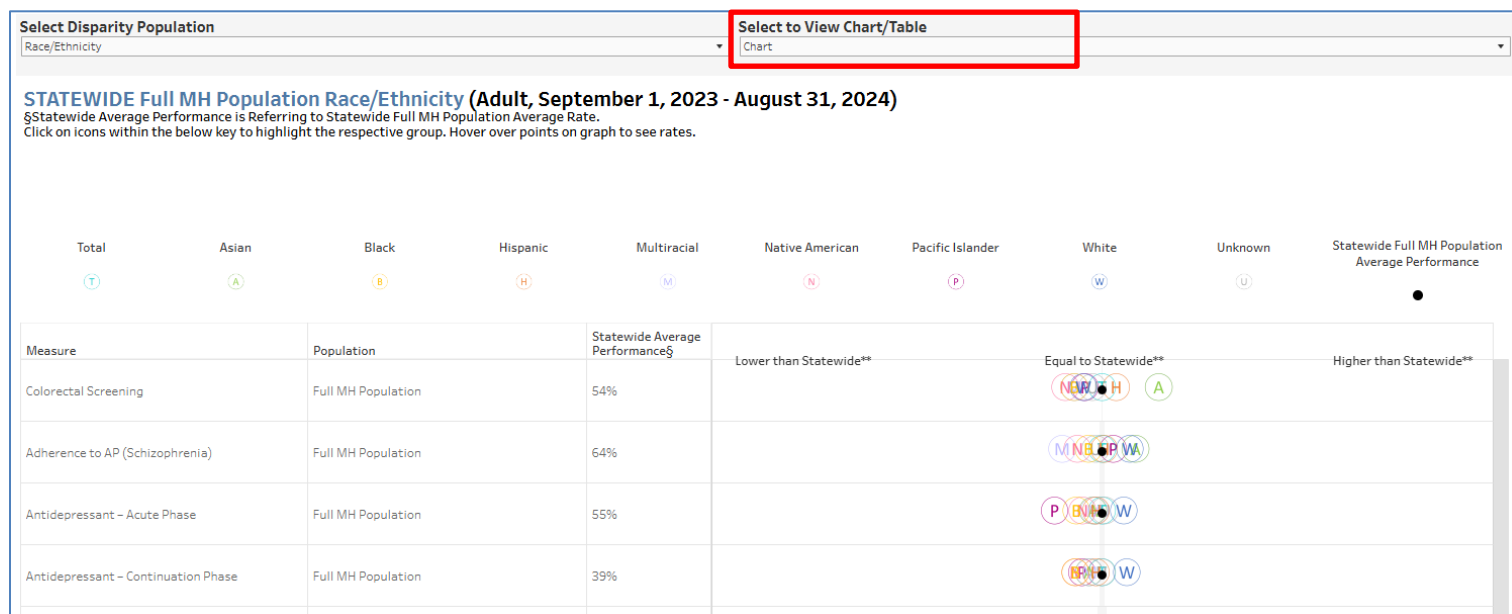


Figure 10. OMH VSD – Adult Tab Chart View Hover-Over Functionality

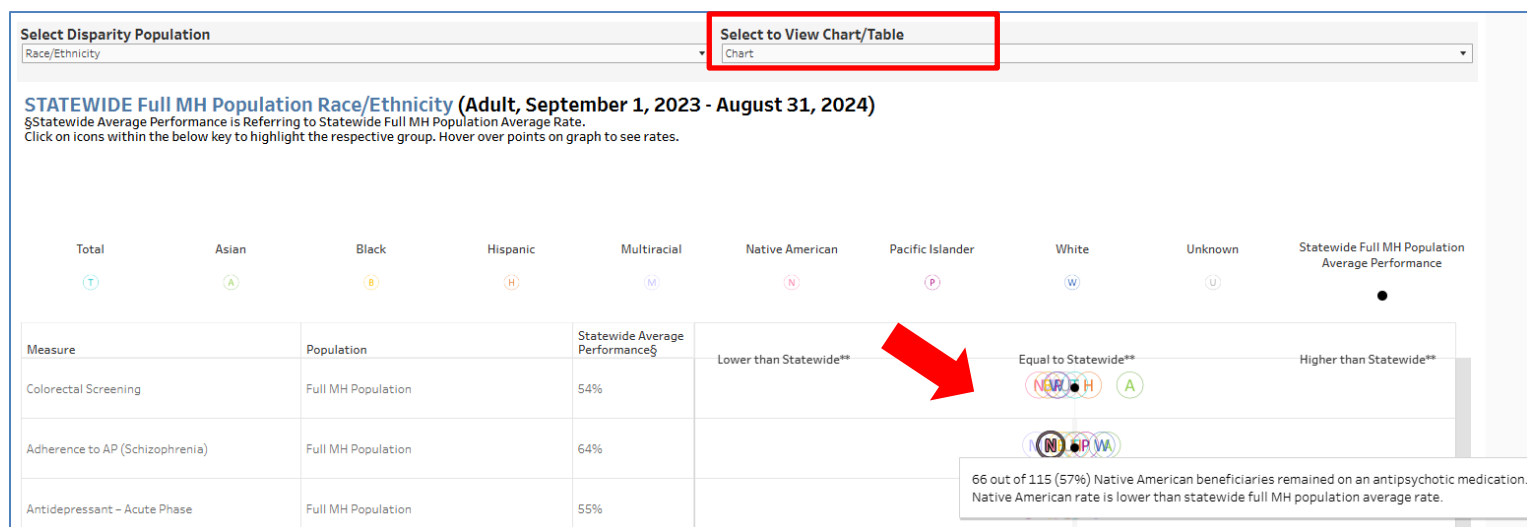
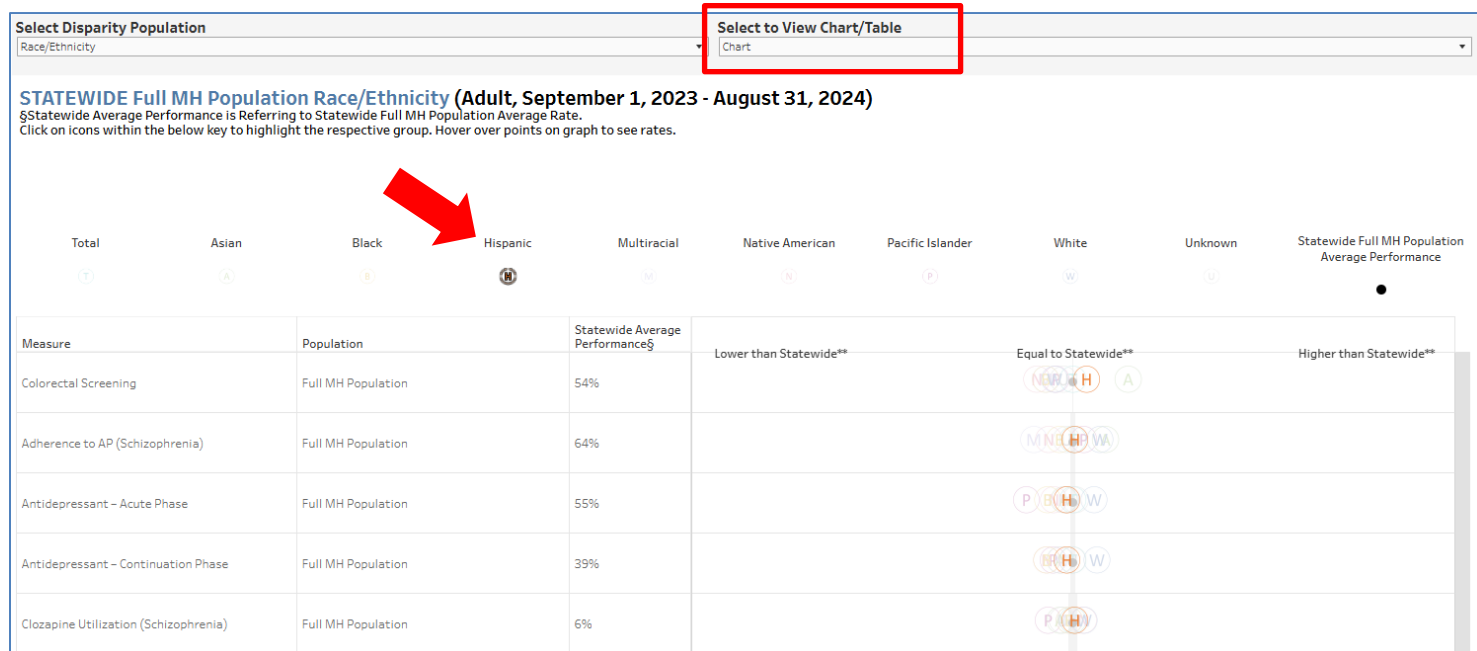
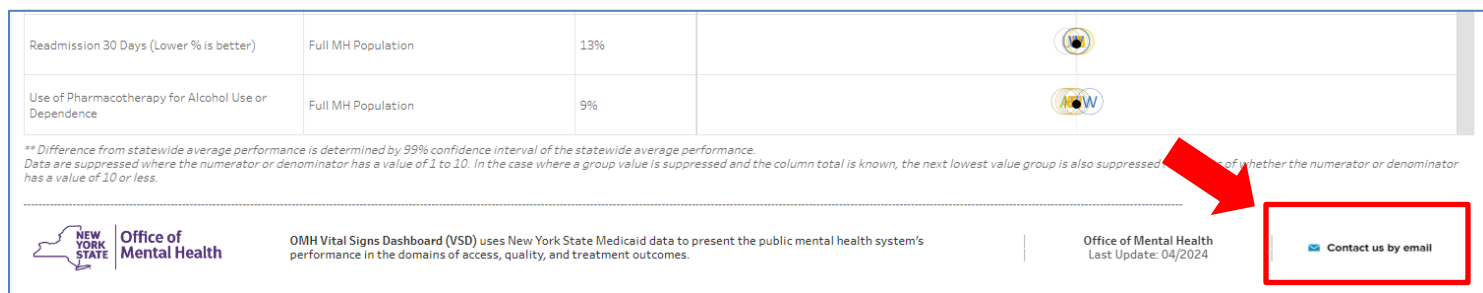


Figure 11. OMH VSD – Adult Tab Chart View Highlight Group Function (Hispanic)



- All design elements and functionality on the VSD Home – Adult tab are reflected in the VSD Home – Child tab,
- Similar to the design and functionality in the top half of the VSD, the design and functionality of the bottom half of the VSD is the same for both the child and adult tabs.
- If you have any questions about using the VSD or want to provide the team with feedback, you can click the “contact us by email” button in the bottom right corner (Figure 12).

Figure 12. OMH VSD – Adult Tab Contact Us by Email



Navigating the Trends Over Time Tab

- When you click on the third tab (“Trends Over Time – Adult & Child”), you will see Trends Over Time for one measure in 3 line charts, the first by race/ethnicity, the second by gender, and the third by region (Figure 13).
- You will automatically see the data filtered by the *statewide* region and by the *full mental health (MH) population*. The default measure is Adult Colorectal Cancer Screening.
- Details of the selected measure is included above the visualizations (Figure 14).
- Details of each data point are shown when you hover over the data point, including numerator, denominator, and percent (Figure 15).
- Each line chart shows the selected measure over time, split up into demographic groups. In bold gray is the comparison average rate for the statewide, full MH population sample.
- At the top of dashboard, you will see three filters where you can choose different filter options.
 - To select a different measure, use the first drop-down menu on the left (Figure 16). Measures are organized by age (adult or child) followed by the measure name.
 - You can scroll through the drop-down menu of options or use the blank space at the top of the drop-down menu to begin typing the name of the measure you are looking for.
 - To select a different region, county, network, or agency, use the second drop-down menu. The list is arranged alphabetically.
 - Similarly, you can scroll through the drop-down menu of options or use the blank space at the top of the drop-down menu to begin typing the name of what you are looking for.
 - To select a different population type, use the third drop-down menu on the right (Figure 17).
- To hide specific groups from a chart, deselect those groups from the right-hand side of the chart under “Select Groups to View” (Figure 18).
- To view the original *statewide* and *full MH population* filters, you can double click the “Reset” button on the top right (Figure 19).

Figure 13. OMH VSD – Trends Over Time Tab

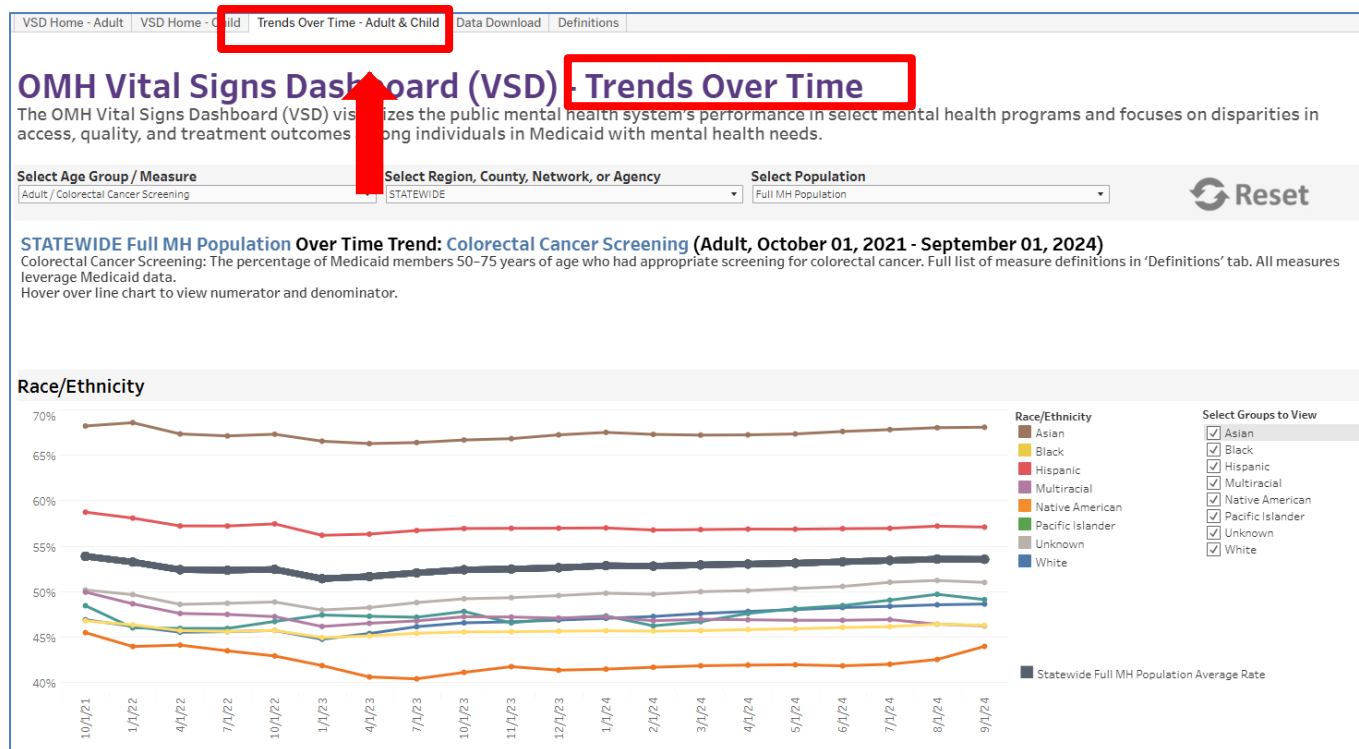


Figure 14. OMH VSD – Trends Over Time Tab Measure and Population Details

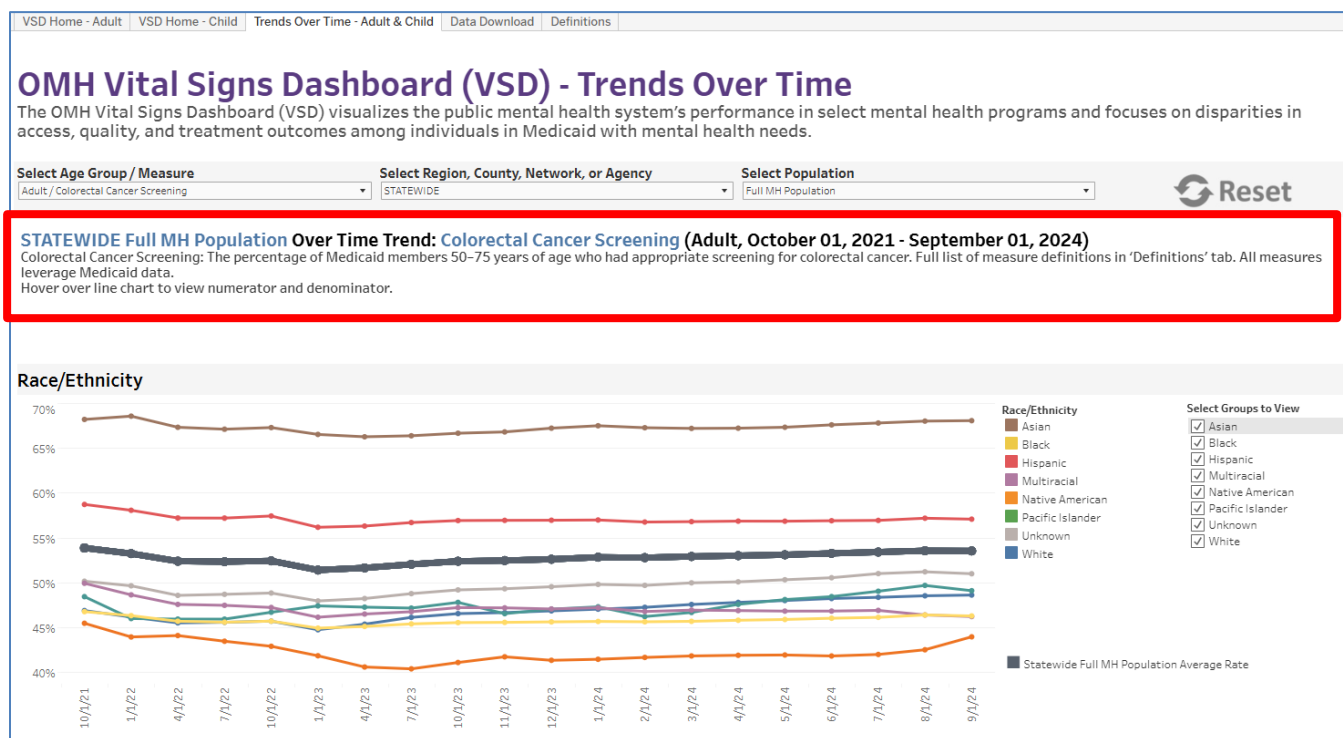


Figure 15. OMH VSD – Trends Over Time Hover Details

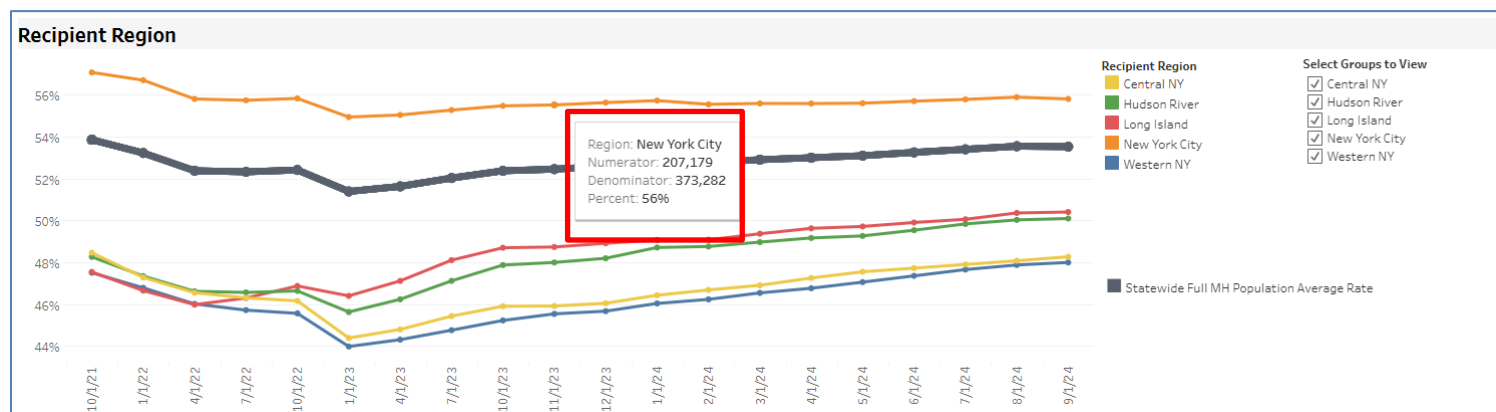


Figure 16. OMH VSD – Trends Over Time Age/Measure Filter

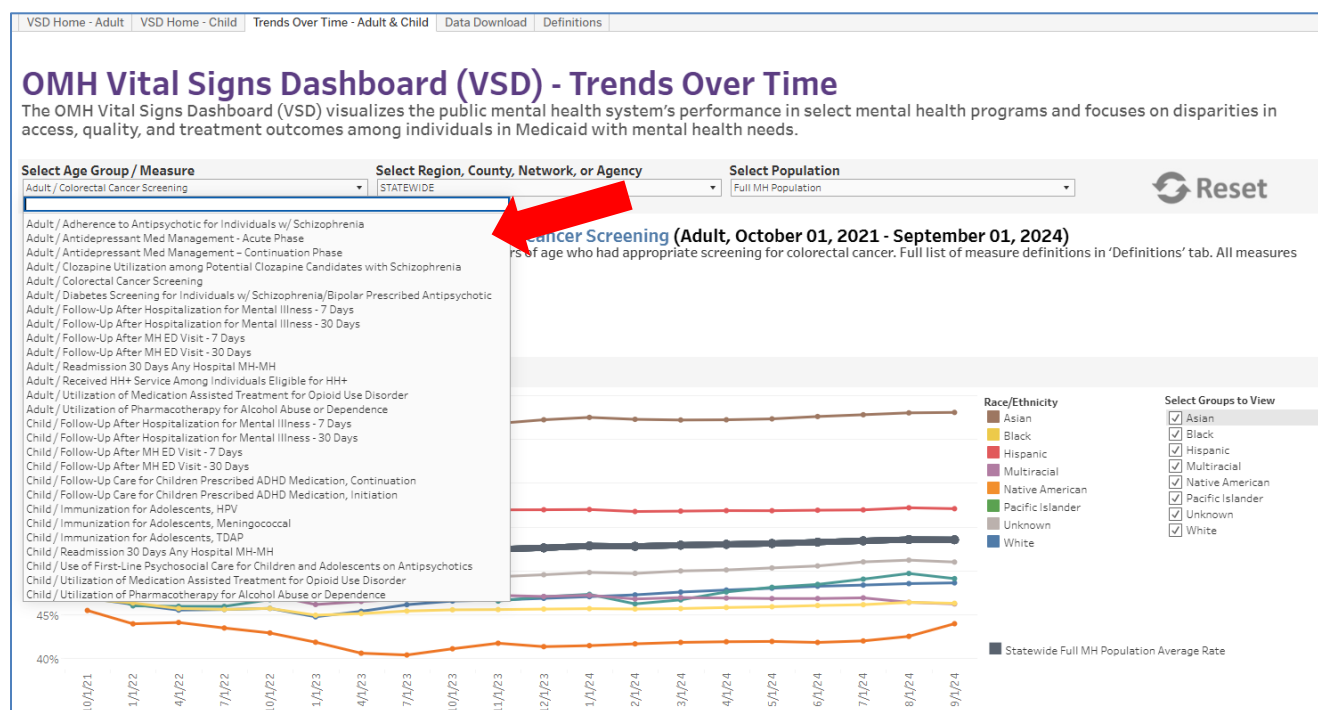


Figure 17. OMH VSD – Trends Over Time Population Filter

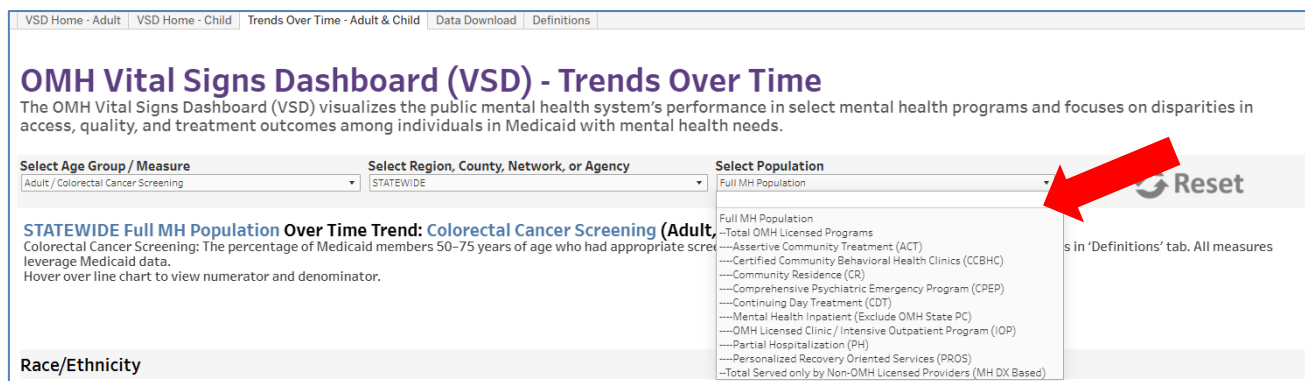


Figure 18. OMH VSD – Trends Over Time Groups to View Filter

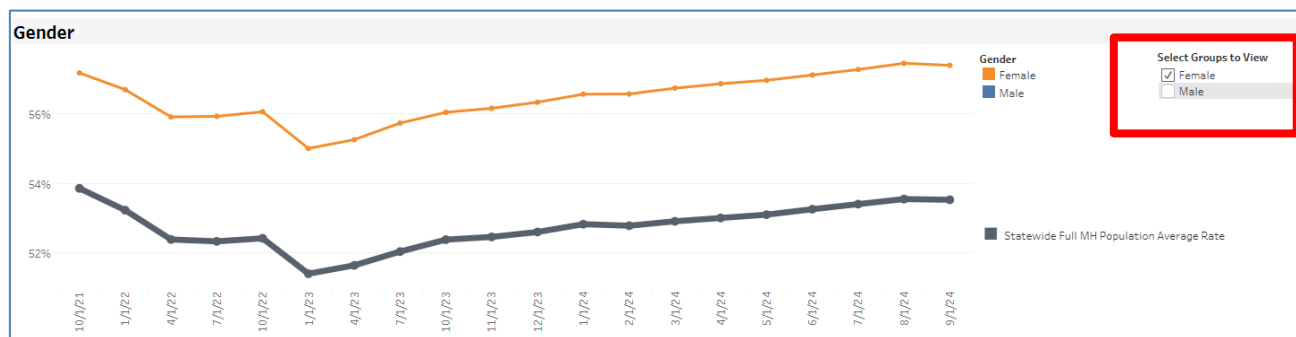
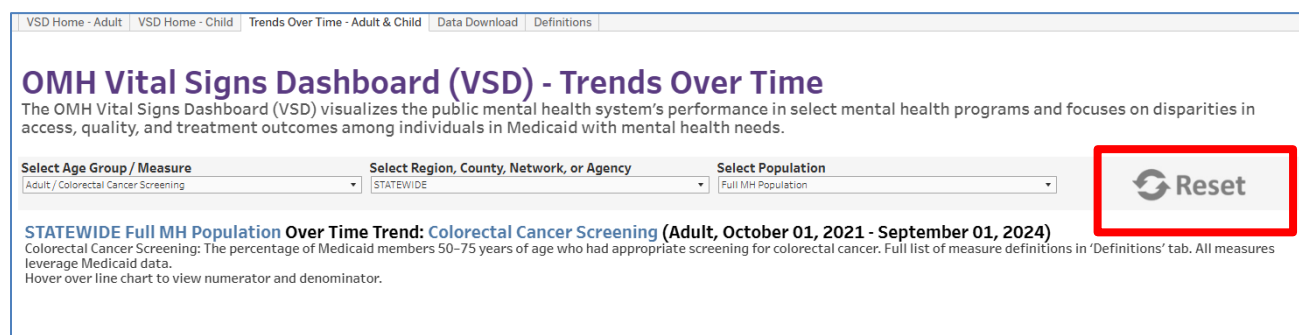


Figure 19. OMH VSD – Trends Over Time Reset Button



Using the Data Download Tab

- After viewing and interacting with the data on the VSD Home – Adult and VSD Home – Child tabs, a user can leverage the Data Download tab to export specific data elements.
- You can use the filters at the top of the dashboard to choose the data you would like to view.
- You can use the export feature in the bottom right of the dashboard to export the data in your preferred format (Figure 20).
- Using the download via crosstab function will allow you to choose whether the data is downloaded as an Excel Workbook or CSV.

Figure 20. OMH VSD – Data Download Tab

The screenshot displays the 'VSD Data Download' interface. At the top, navigation tabs include 'VSD Home - Adult', 'VSD Home - Child', 'Data Download' (highlighted with a red box), and 'Definitions'. Below the tabs, a section titled 'VSD Data Download' contains several filter dropdowns: 'County/Agency' (set to STATEWIDE), 'Adult/Child' (set to All), 'Domain' (set to All), 'Measure' (set to All), 'Population' (set to Full MH Population), and 'Disparity Indicator' (set to Total Population).

Below the filters is a large table with columns: Location, Adult/Child, Domain, Measure, Population, Disparity Indicator, Disparity Category, Numerator, Denominator, and Performance. The table lists various metrics such as Colorectal Screening, HbA1c Service Received, Clozapine Utilization, and Diabetes Screening, along with their respective population counts and performance percentages.

In the bottom right corner, a red arrow points to a dropdown menu with the following options: Image, Data, Crosstab, PDF, and PowerPoint. This menu is also highlighted with a red box.

Information in the Definitions Tab

- You can refer to the Definitions tab (Figure 21) for detailed definitions for all items in the VSD, including:
 - Domains
 - Measures
 - Agency
 - County
 - Population
 - Program types

Figure 21. OMH VSD – Definitions Tab

VSD Definitions

Overview

The OMH Vital Signs Dashboard (VSD) uses New York State Medicaid data to present the public mental health system's performance in the domains of access, quality, and treatment outcomes.

All metrics are stratified by:

- Self-reported race/ethnicity: White, Black, Hispanic, Asian/Pacific Islander, Native American, Multiracial, Unknown. Race/ethnicity categories are mutually exclusive.
- Sex: male, female.
- Geographic area: statewide, recipient region.

This page contains definitions for the VSD domains, measures, populations, and OMH licensed programs used in these reports.

Domain Definitions

Access Domain
Access to timely, appropriate care is critical to achieving optimal health, but access varies widely.[1] The Access Domain in the VSD can help to monitor rates of access, identify gaps in access, and act on opportunities for improvement. The Access Domain identifies instances of inequity in access to treatment among certain provider types, in certain geographies of the State and/or among certain demographic groups.

Quality Domain
The Quality Domain measures in the VSD are based on HEDIS and Quality Assurance Reporting Requirements (QARR) measure specifications and can help structure quality improvement initiatives to address provider performance and inequities. The Quality Domain includes important measures of physical health that indicate comprehensive disease management for patients with comorbid conditions.[2] The Clozapine utilization measure allows for exploration of trends, including any suggestions of disparities in receiving the efficacious antipsychotic.[3]

Treatment Outcome Domain
The Treatment Outcome Domain in the VSD explore performance on measures such as adherence to medications and readmission to the hospital. Adherence to antidepressant medications over time, for example, is critical to their efficacy, but there are several common barriers to their use, especially for certain populations.[4] The VSD can help identify when disparities, many of which are already identified in published literature, also appear in the New York State public mental health system.

Measure Definitions

Adult/Child	Domain	Measure	Measure Description	Age Specification	Denominator	Numerator	Data Collection T.
Adult	Access	Colorectal cancer screening	The percentage of members 50-75 years of age who had appropriate screening for colorectal cancer.	Adult (50-75)	The number of Medicaid members 50-75 years old	The number of members 50-75 years old with one or more screenings for colorectal cancer. Appropriate screenings are defined by one of the following: <ul style="list-style-type: none"> FOBT during the measurement year. Flexible sigmoidoscopy during the measurement year or the four years prior to the measurement year. Colonoscopy during the measurement year or the nine years prior to the measurement year. 	Dec. 1, 2020 - Nov. 30, 2021

Frequently Asked Questions

Question	Answer
What is the VSD?	The VSD is a Tableau dashboard which can be used to visualize the public mental health system's performance within domains of access, quality, and treatment outcomes. The VSD can help users to identify emerging and persistent disparities, provide input to OMH's quality strategy to improve the public mental health system, assess results of strategic planning and serve as input into program management, and share metrics with county planning and mental health providers for planning and quality improvement purposes.
What data is included in the VSD?	Data within the VSD is derived from Medicaid claims and encounters and includes the full Medicaid mental health (MH) population (e.g., individuals who received a MH diagnosis or service in any setting). Data will be refreshed on a monthly basis. Data is available by county, region, and provider agency. Data can be stratified by population characteristics of race/ethnicity, gender, and region.
How can I access the VSD?	The VSD Tableau can be accessed on the OMH website through the weblink below. There is no Protected Health Information (PHI) included in the VSD and no token required for login. The link works best on Chrome, Edge, or Safari web browsers. You can share the link with anyone that would benefit from using the VSD. Link to the VSD: https://omh.ny.gov/omhweb/tableau/vital-signs.html
Why were the measures in the VSD selected?	The measures were selected from existing national and state measures for relevance, importance, and feasibility. However, we are interested in developing new measures and changing measures included based on feedback.
Do you offer any technical support for using the VSD?	Yes! Periodically we offer office hour sessions where a VSD team member is available to answer questions. Additionally, you can always reach out to the VSD team at the following email address or by using the "contact us" button located in the bottom right of the VSD. VSD team email address: DataOPHE@omh.ny.gov