# Performance Outcomes System Initial Reports

**Report run on July 29, 2015**

## Background

This is the first round of county-specific reporting produced for the Performance Outcomes System which reflects a refresh of the data on the indicators that were reported in February 2015 at the statewide aggregate level. These reports help meet the intent of the Legislature, as stated in Welfare and Institutions Code Section 14707.5, to develop a performance outcomes system for Early and Periodic Screening, Diagnosis, and Treatment (EPSDT) mental health services that will improve outcomes at the individual, program, and system levels and inform fiscal decision-making related to the purchase of services. This reporting effort is part of the implementation of a performance outcomes system for Medi-Cal Specialty Mental Health Services (SMHS) for children and youth.

Since 2012 DHCS has worked with several groups of stakeholders to create a structure for reporting, develop the Performance Measurement Paradigm, and develop indicators and measures. The Performance Outcomes System will be used to evaluate the domains of access, engagement, service appropriateness to need, service effectiveness, linkages, cost effectiveness and satisfaction.

## Purpose and Overview

Moving forward, three reports will be created during each new reporting period. The reports that will be produced are the following: statewide aggregate data; population-based county groups; and county-specific data. These are the first county-specific reports providing updated information on the initial indicators that were developed for the Performance Outcomes System and reported on at the statewide aggregate level in February 2015; they help establish a foundation for on-going reporting. DHCS plans to move to annual reporting of this data for the Performance Outcomes System.

The first reports focus on the demographic characteristics of the children and youth under 21 who are receiving Specialty Mental Health Services (SMHS), based on approved claims for Medi-Cal eligible beneficiaries. The reports include data on the demographics of this population by age, gender, race/ethnicity. Two types of penetration information are provided for children/youth served and not served. Both penetration rate tables are also broken out by demographic characteristics.

Utilization of services reports are shown in terms of dollars, as well as by service, in time increments. The snapshot report provides a point-in-time view of children arriving, exiting and continuing services over a two year period. The final report provides a view over the past four years of the time to step-down services (i.e., time to next contact after an inpatient discharge). Where possible, the reports provide trend information by displaying information for Fiscal Years (FY) 10/11, 11/12, 12/13, and 13/14.

Note: The time to step-down report has a change in methodology from the first report produced in February 2015. In the initial February report only outpatient services provided at least one day after the inpatient discharge were included in the calculations. Starting with this report, any outpatient service that occurs on or after the inpatient discharge is included in the analysis.

## Definitions

**Population –**

Beneficiaries with approved services adjudicated through the Short Doyle/Medi-Cal II claiming system that were:

- Age 20 or younger during the approved date of service on the claim; or
- Age 21 during the approved date of the service on the claim and a birth date on or after January 1st of the Fiscal Year.

**Data Sources -**

- Short-Doyle/Medi-Cal II (SD/MC II) claims with dates of service in FY 10/11 through FY 13/14.
- Medi-Cal Eligibility Data System (MEDS) data from the Management Information System/Decision Support System (MIS/DSS) FY 10/11 through FY 13/14.

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## Additional Information

The Measures Catalog is the companion document for these reports and provides the methodology and definitions for the measures. Each measure is defined and the numerator and denominator used to develop the metrics are provided with relevant notes and additional references. The Measures Catalog may be found at:
http://www.dhcs.ca.gov/services/MH/Documents/MedCCC/Library/POSMeasuresCatalog_Sept15Reporting_Final_1.11.15.pdf

Background information on the Performance Measures System implementation is available on the DHCS website. Documents posted include the relevant legislation, plans submitted to the Legislature, and handouts for meetings with the Stakeholder Advisory Committee dating back to the first meeting in 2012. To obtain this information go to:
http://www.dhcs.ca.gov/provgovpart/pos/Pages/Performance-Outcomes-System-Legislation.aspx

## Report Interpretation

*County-specific findings may be interpreted alongside the POS statewide and population-based report findings.

*The penetration rates reported here were calculated using a different methodology than that used by the External Quality Review Organization (EQRO). The differences in methodology make comparison between the POS penetration rates and the EQRO penetration rates not appropriate or useful. The POS methodology for calculating penetration rates was selected because it is easier to compute, more straightforward to interpret, and is in use by other states and counties. For the POS, the penetration rate is calculated by taking the total number of youth who received X number of Specialty Mental Health Services (1 or 5 for POS) in a FY and dividing that by the total number of Medi-Cal eligible youth for that FY. This methodology results in lower penetration rates as compared to the EQRO rates, but it does so across the board so that all counties and the state will be similarly impacted.

*The snapshot report provides a point-in-time look at children and youth's movement through the SMHS system. The report uses five general categories to classify if a youth is entering, exiting, continuing services, or a combination of these categories (e.g., arriving and exiting). As of now, this report only classifies youth and their service usage for FY 12/13 and FY13/14. Eventually the snapshot data will be used along with measures of service effectiveness to identify whether youth are improving as a result of receiving services from the time they first arrived in the system to when they exit the system. This methodology was adapted from the California Mental Health and Substance Use System Needs Assessment (2012). More information on the original methodology can be found here:
http://www.dhcs.ca.gov/services/MH/Documents/MedCCC/Library/POSMeasuresCatalog_Sept15Reporting_Final_1.11.15.pdf

*The psychiatric emergency services/hospital data reported on in the time to step-down services report relies solely on claims data from Short Doyle/Medi-Cal II. In the future this report will incorporate other outpatient and inpatient Medi-Cal SMHS' billed through the Managed Care healthcare delivery systems.

*DHCS is in process of updating the data source for the two following types of Service Usage: Hospital Inpatient and Hospital Inpatient Admin.. This is being done to ensure the findings are complete. June 1016 is slated for an update of the POS reports and will include fee-for service data where it is appropriate.

***Please contact cmhpos@dhcs.ca.gov for any questions regarding this report.***

## Demographics Report: Unique Count of Children and Youth Receiving SMHS by Fiscal Year
## Alameda County as of July 29, 2015

| SFY | Unique Count Receiving SMHS* | Year-Over-Year Percentage Change | Unique Count of Medi-Cal Eligibles | Year-Over-Year Percentage Change |
|---|---|---|---|---|
| **FY 10-11** | 10,455 | | 135,167 | |
| **FY 11-12** | 10,494 | 0.4% | 138,749 | 2.7% |
| **FY 12-13** | 10,895 | 3.8% | 158,665 | 14.4% |
| **FY 13-14**** | 11,405 | 4.7% | 172,700 | 8.8% |
| **Compound Annual Growth Rate SFY**** | | **2.9%** | | **8.5%** |

**SMHS = Specialty Mental Health Services. See Measures Catalog for more detailed information.*

***SFY = State Fiscal Year which is July 1 through June 30.*

## Demographics Report: Unique Count of Children and Youth Receiving SMHS by Fiscal Year
## Alameda County as of July 29, 2015

| Fiscal Year | Alaskan Native or American Indian Count | Alaskan Native or American Indian % | Asian or Pacific Islander Count | Asian or Pacific Islander % | Black Count | Black % | Hispanic Count | Hispanic % | White Count | White % | Other Count | Other % | Unknown Count | Unknown % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FY 10-11 | 39 | 0.4% | 574 | 5.5% | 4,483 | 42.9% | 3,095 | 29.6% | 1,354 | 13.0% | 281 | 2.7% | 629 | 6.0% |
| FY 11-12 | 52 | 0.5% | 613 | 5.8% | 4,326 | 41.2% | 3,269 | 31.2% | 1,214 | 11.6% | 330 | 3.1% | 690 | 6.6% |
| FY 12-13 | 42 | 0.4% | 683 | 6.3% | 4,144 | 38.0% | 3,516 | 32.3% | 1,280 | 11.7% | 424 | 3.9% | 806 | 7.4% |
| FY 13-14 | 50 | 0.4% | 764 | 6.7% | 3,978 | 34.9% | 3,956 | 34.7% | 1,295 | 11.4% | 487 | 4.3% | 875 | 7.7% |

**FY 13-14 claims are estimated to be 95% complete as of January 1, 2015.*

## Demographics Report: Unique Count of Children and Youth Receiving SMHS by Fiscal Year
## Alameda County as of July 29, 2015

| Fiscal Year | Children 0-5 Count | Children 0-5 % | Children 6-11 Count | Children 6-11 % | Children 12-17 Count | Children 12-17 % | Youth 18-20 Count | Youth 18-20 % |
|---|---|---|---|---|---|---|---|---|
| FY 10-11 | 1,475 | 14.1% | 3,272 | 31.3% | 4,411 | 42.2% | 1,297 | 12.4% |
| FY 11-12 | 1,489 | 14.2% | 3,361 | 32.0% | 4,209 | 40.1% | 1,435 | 13.7% |
| FY 12-13 | 1,524 | 14.0% | 3,568 | 32.7% | 4,347 | 39.9% | 1,456 | 13.4% |
| FY 13-14 | 1,495 | 13.1% | 3,843 | 33.7% | 4,575 | 40.1% | 1,492 | 13.1% |

**FY 13-14 claims are estimated to be 95% complete as of January 1, 2015.*

## Demographics Report: Unique Count of Children and Youth Receiving SMHS by Fiscal Year
## Alameda County as of July 29, 2015

| Fiscal Year | Female Count | Female % | Male Count | Male % |
|---|---|---|---|---|
| FY 10-11 | 4,564 | 43.7% | 5,891 | 56.3% |
| FY 11-12 | 4,631 | 44.1% | 5,863 | 55.9% |
| FY 12-13 | 4,828 | 44.3% | 6,067 | 55.7% |
| FY 13-14 | 5,146 | 45.1% | 6,259 | 54.9% |

## Penetration Rates* Report: Children and Youth With At Least One SMHS Visit**
## Alameda County as of July 29, 2015

| | FY 10-11 | | | FY 11-12 | | | FY 12-13 | | | FY 13-14 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Children and Youth with 1 or more SMHS Visits | Certified Eligible Children and Youth | Penetration Rate | Children and Youth with 1 or more SMHS Visits | Certified Eligible Children and Youth | Penetration Rate | Children and Youth with 1 or more SMHS Visits | Certified Eligible Children and Youth | Penetration Rate | Children and Youth with 1 or more SMHS Visits | Certified Eligible Children and Youth | Penetration Rate |
| **All** | **10,455** | **135,167** | **7.7%** | **10,494** | **138,749** | **7.6%** | **10,895** | **158,665** | **6.9%** | **11,405** | **172,700** | **6.6%** |
| Children 0-5 | 1,475 | 51,357 | 2.9% | 1,489 | 51,249 | 2.9% | 1,524 | 53,175 | 2.9% | 1,495 | 54,150 | 2.8% |
| Children 6-11 | 3,272 | 35,137 | 9.3% | 3,361 | 36,894 | 9.1% | 3,568 | 45,798 | 7.8% | 3,843 | 50,269 | 7.6% |
| Children 12-17 | 4,411 | 30,737 | 14.4% | 4,209 | 31,297 | 13.4% | 4,347 | 39,122 | 11.1% | 4,575 | 43,391 | 10.5% |
| Youth 18-20 | 1,297 | 17,936 | 7.2% | 1,435 | 19,309 | 7.4% | 1,456 | 20,570 | 7.1% | 1,492 | 24,890 | 6.0% |
| Alaskan Native or American Indian | 39 | 393 | 9.9% | 52 | 393 | 13.2% | 42 | 424 | 9.9% | 50 | 454 | 11.0% |
| Asian or Pacific Islander | 574 | 21,382 | 2.7% | 613 | 21,751 | 2.8% | 683 | 27,658 | 2.5% | 764 | 32,247 | 2.4% |
| Black | 4,483 | 34,780 | 12.9% | 4,326 | 35,336 | 12.2% | 4,144 | 35,835 | 11.6% | 3,978 | 35,854 | 11.1% |
| Hispanic | 3,095 | 51,236 | 6.0% | 3,269 | 53,414 | 6.1% | 3,516 | 62,143 | 5.7% | 3,956 | 65,271 | 6.1% |
| White | 1,354 | 10,632 | 12.7% | 1,214 | 10,697 | 11.3% | 1,280 | 11,928 | 10.7% | 1,295 | 13,997 | 9.3% |
| Other | 281 | 8,599 | 3.3% | 330 | 8,966 | 3.7% | 424 | 11,394 | 3.7% | 487 | 13,770 | 3.5% |
| Unknown | 629 | 8,145 | 7.7% | 690 | 8,192 | 8.4% | 806 | 9,283 | 8.7% | 875 | 11,107 | 7.9% |
| Female | 4,564 | 67,296 | 6.8% | 4,631 | 69,215 | 6.7% | 4,828 | 78,623 | 6.1% | 5,146 | 85,225 | 6.0% |
| Male | 5,891 | 67,871 | 8.7% | 5,863 | 69,534 | 8.4% | 6,067 | 80,042 | 7.6% | 6,259 | 87,475 | 7.2% |

**Penetration Rate is defined as the percentage of SMHS eligible beneficiaries that have received a SMHS that was claimed via the Short-Doyle/Medi-Cal claiming system. This does not include non-specialty mental health services provided in Medi-Cal Managed Care system.*

***Children and Youth that have received at least one SMHS that was claimed through the Short-Doyle/ Medi-Cal claiming system on at least one (1) day in the Fiscal Year.*

## Penetration Rates* Report: Children and Youth With At Least One SMHS Visit**
## Alameda County as of July 29, 2015

| | FY 10-11 | | | FY 11-12 | | | FY 12-13 | | | FY 13-14 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Children and Youth with 5 or more SMHS Visits | Certified Eligible Children and Youth | Penetration Rate | Children and Youth with 5 or more SMHS Visits | Certified Eligible Children and Youth | Penetration Rate | Children and Youth with 5 or more SMHS Visits | Certified Eligible Children and Youth | Penetration Rate | Children and Youth with 5 or more SMHS Visits | Certified Eligible Children and Youth | Penetration Rate |
| **All** | **8,681** | **135,167** | **6.4%** | **8,767** | **138,749** | **6.3%** | **9,154** | **158,665** | **5.8%** | **9,704** | **172,700** | **5.6%** |
| Children 0-5 | 1,162 | 51,357 | 2.3% | 1,226 | 51,249 | 2.4% | 1,242 | 53,175 | 2.3% | 1,235 | 54,150 | 2.3% |
| Children 6-11 | 2,922 | 35,137 | 8.3% | 2,947 | 36,894 | 8.0% | 3,131 | 45,798 | 6.8% | 3,401 | 50,269 | 6.8% |
| Children 12-17 | 3,680 | 30,737 | 12.0% | 3,531 | 31,297 | 11.3% | 3,658 | 39,122 | 9.4% | 3,899 | 43,391 | 9.0% |
| Youth 18-20 | 917 | 17,936 | 5.1% | 1,063 | 19,309 | 5.5% | 1,123 | 20,570 | 5.5% | 1,169 | 24,890 | 4.7% |
| Alaskan Native or American Indian | 32 | 393 | 8.1% | 44 | 393 | 11.2% | 40 | 424 | 9.4% | 44 | 454 | 9.7% |
| Asian or Pacific Islander | 479 | 21,382 | 2.2% | 507 | 21,751 | 2.3% | 555 | 27,658 | 2.0% | 625 | 32,247 | 1.9% |
| Black | 3,733 | 34,780 | 10.7% | 3,631 | 35,336 | 10.3% | 3,527 | 35,835 | 9.8% | 3,417 | 35,854 | 9.5% |
| Hispanic | 2,550 | 51,236 | 5.0% | 2,722 | 53,414 | 5.1% | 2,944 | 62,143 | 4.7% | 3,375 | 65,271 | 5.2% |
| White | 1,116 | 10,632 | 10.5% | 1,018 | 10,697 | 9.5% | 1,063 | 11,928 | 8.9% | 1,082 | 13,997 | 7.7% |
| Other | 215 | 8,599 | 2.5% | 269 | 8,966 | 3.0% | 333 | 11,394 | 2.9% | 395 | 13,770 | 2.9% |
| Unknown | 556 | 8,145 | 6.8% | 576 | 8,192 | 7.0% | 692 | 9,283 | 7.5% | 766 | 11,107 | 6.9% |
| Female | 3,754 | 67,296 | 5.6% | 3,842 | 69,215 | 5.6% | 4,044 | 78,623 | 5.1% | 4,361 | 85,225 | 5.1% |
| Male | 4,927 | 67,871 | 7.3% | 4,925 | 69,534 | 7.1% | 5,110 | 80,042 | 6.4% | 5,343 | 87,475 | 6.1% |

**Penetration Rate is defined as the percentage of SMHS eligible beneficiaries that have received a SMHS that was claimed via the Short-Doyle/Medi-Cal claiming system. This does not include non-specialty mental health services provided in Medi-Cal Managed Care system.*

***Children and Youth that have received at least five SMHS that were claimed through the Short-Doyle/ Medi-Cal claiming system on at least five (5) or more different days in the Fiscal Year.*

**Utilization Report*: Approved Specialty Mental Health Services for Children and Youth**
**Mean Expenditures and Mean Service Quantity per Unique Beneficiary by Fiscal Year****
**Alameda County as of July 29, 2015**

| Fiscal Year | SDMC Total Approved | IHBS (Minutes) | ICC (Minutes) | Case Management/ Brokerage (Minutes) | Mental Health Services (Minutes) | Therapeutic Behavioral Services (Minutes) | Medication Support Services (Minutes) | Crisis Intervention (Minutes) | Crisis Stabilization (Hours) | Full Day Treatment Intensive (Hours) | Full Day Rehabilitation (Hours) | Hospital Inpatient (Days)*** | Hospital Inpatient Admin (Days) | Crisis Residential Treatment Services (Days) | Adult Residential Treatment Services (Days) | Psychiatric Health Facility (Days) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FY 10-11 | $ 8,326.31 | 0 | 0 | 355 | 2522 | 5233 | 334 | 217 | 15 | 634 | 534 | N/A | N/A | 12 | 99 | 11 |
| FY 11-12 | $ 8,365.83 | 0 | 0 | 378 | 2532 | 5437 | 336 | 233 | 14 | 620 | 517 | N/A | N/A | 13 | 57 | 10 |
| FY 12-13 | $ 8,427.20 | 0 | 0 | 388 | 2472 | 5023 | 327 | 226 | 15 | 589 | 406 | N/A | N/A | 12 | 71 | 9 |
| FY 13-14 | $ 8,788.32 | 1877 | 2213 | 381 | 2702 | 5283 | 360 | 267 | 13 | 503 | 507 | N/A | N/A | 18 | 94 | 10 |
| **MEAN** | **$ 8,476.92** | **1877** | **2213** | **376** | **2557** | **5244** | **340** | **236** | **14** | **586** | **491** | **N/A** | **N/A** | **14** | **80** | **10** |

**The graphs are color coded so that those reported in the same unit of analysis (e.g., minutes) are colored similarly.*
*Please note that (n) values listed at the bottom of each bar graph represent the actual number of children/youth that received the SMHS represented in their respective graph by Fiscal Year.*
***This report contains inpatient services that were claimed through the Short-Doyle/Medi-Cal claiming system.

## Snapshot Report: Unique Count of Children and Youth Receiving SMHS
## Arriving, Exiting, and with Service Continuance by Fiscal Year
## Alameda County as of August 3, 2015

| Category | Description (Please refer to the Measures Catalog for more detailed descriptions on all Performance Outcomes System measures.) |
|---|---|
| Arrivals | Children/Youth that did not receive any SMHS within 3 months of their first date of service in the Fiscal Year. |
| Service Continuance | Children/Youth receiving continuous services with no breaks in service greater than 90 days for a period of at least 2 years (>= 2 YR) or a period of 1 to 2 years (< 2 YR). |
| Exiting | Children/Youth that did not receive any SMHS within 3 months after their last date of service in the Fiscal Year. |
| Arriving & Exiting | A distinct category in which children/youth met both the criteria for **Arrivals** and **Exiting** above for the fiscal year. |
| Service Continuance & Exiting | A distinct category in which Children/Youth had at least 2 years of Service Continuance going into the Fiscal Year and then Exited within the same Fiscal Year. |

| Service Fiscal Year | Arrivals Count | Arrivals % | Service Continuance (>= 2 YR) Count | Service Continuance (>= 2 YR) % | Service Continuance (<2 YR) Count | Service Continuance (< 2 YR) % | Exiting Count | Exiting % | Arriving & Exiting Count | Arriving & Exiting % | Service Continuance (>= 2 YR) & Exiting Count | Service Continuance (>= 2 YR) and Exiting % | Total Count | Total % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FY 12-13 | 2,280 | 20.9% | 966 | 8.9% | 859 | 7.9% | 1,814 | 16.6% | 4,092 | 37.6% | 884 | 8.1% | 10,895 | 100% |
| FY 13-14 | 2,513 | 22.0% | 1,034 | 9.1% | 929 | 8.1% | 1,778 | 15.6% | 4,423 | 38.8% | 728 | 6.4% | 11,405 | 100% |

## Time to Step Down Report: Children and Youth Stepping Down in SMHS Services Post Inpatient Discharge
## Alameda County as of July 28, 2015

| Service FY | Count of Inpatient Discharges with Step Down within 7 Days of Discharge | Percentage of Inpatient Discharges with Step Down within 7 Days of Discharge | Count of Inpatient Discharges with Step Down within 30 Days of Discharge | Percentage of Inpatient Discharges with Step Down within 30 Days of Discharge | Count of Inpatient Discharges with a Step Down > 30 Days from Discharge | Percentage of Inpatient Discharges with a Step Down > 30 Days from Discharge | Count of Inpatient Discharges with No Step Down** | Percentage of Inpatient Discharges with No Step Down | Minimum Number of Days between Discharge and Step Down | Maximum Number of Days between Discharge and Step Down | Mean Time to Next Contact Post Inpatient Discharge (Days) | Median Time to Next Contact Post Inpatient Discharge (Days) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FY 10-11 | 767 | 41.1% | 1173 | 62.9% | 618 | 33.1% | 75 | 4.0% | 0 | 1095 | 71.5 | 12 |
| FY 11-12 | 633 | 46.2% | 948 | 69.2% | 347 | 25.3% | 74 | 5.4% | 0 | 1211 | 46.6 | 8 |
| FY 12-13 | 349 | 56.7% | 490 | 79.7% | 100 | 16.3% | 25 | 4.1% | 0 | 862 | 20.8 | 4 |
| FY 13-14 | 321 | 75.9% | 373 | 88.2% | 32 | 7.6% | 18 | 4.3% | 0 | 374 | 11.3 | 1 |

** This report contains inpatient services that were claimed through the Short-Doyle/Medi-Cal claiming system and the Fee-for-Service, California Medicaid Management Information System (CA-MMIS).*

***No Step Down is defined as no Medi-Cal eligible service was claimed through Short-Doyle/Medi-Cal after a claimed inpatient service was billed with a discharge date. This category may include data currently unavailable to DHCS, such as beneficiaries that we*