

# Performance Outcomes System

Report run on August 3, 2016

## Background

Three reports will be created during each new reporting period. The reports that will be produced are as follows: statewide aggregate data; population-based county groups; and county-specific data. 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, to develop the Performance Measurement Paradigm, and to 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. Further 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 back to the first meeting in 2012. To obtain this information go to: <http://www.dhcs.ca.gov/provgovpart/pos/Pages/default.aspx>

## Purpose and Overview

These county-specific reports provide 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 series of charts and tables focus on the demographics of children and youth under 21 who are receiving SMH' based on approved claims for Medi-Cal eligible beneficiaries. Specifically, this includes demographics tables of this population by age, gender, and race/ethnicity. Two types of penetration information are provided. Both penetration rates tables are also broken out by demographic characteristics. Utilization of services data are shown in terms of dollars, as well as by service, in time increments. The snapshot table provides a point-in-time view of children/youth arriving, exiting, and continuing services over a two-year period. The time to step down table provides a view over the past four years of the time to step-down services following inpatient discharge.

Where possible, the reports provide trend information by displaying information for four Fiscal Years (FY). A FY is from July 1st to June 30th.

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). **Note:** *The time to step-down report has a change in methodology from the first report produced in February 2015. In the initial report only outpatient services provided at least one day after the inpatient discharge were included in the calculations. On subsequent reports, 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 11/12 through FY 14/15.
- Medi-Cal Eligibility Data System (MEDS) data from the Management Information System/Decision Support System (MIS/DSS) FY 11/12 through FY14/15.

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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/provgovpart/pos/Pages/Performance-Outcomes-System-Reports-and-Measures-Catalog.aspx>

### Note on Privacy:

The Health Insurance Portability and Accountability Act (HIPAA) and Code of Federal Regulations (CFR) 42 rules protect most individually identifiable health information in any form or medium, medium, whether electronic, on paper, or oral. DHCS has strict rules in place to protect the identification of individuals in public reports. A "Public Aggregate Reporting – DHCS Business Reports" process has been established to maintain confidentiality of client Personal Information. The Performance Outcomes System complies with Federal and State privacy laws. Thus, the POS must appropriately and accurately de-identify data for public reporting. Due to privacy concerns, some cells in this report may have been suppressed to comply with state and federal rules. When necessary, this data is represented as follows: 1) Data that is missing is indicated as "-" 2) Data that has been suppressed due to privacy concerns is indicated as "^".

## 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 SMHS (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 the two most recent fiscal years. 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/provgovpart/pos/Pages/Performance-Outcomes-System-Reports-and-Measures-Catalog.aspx>

\*The psychiatric emergency services/hospital data reported on in the **time to step-down services** report includes data from Short Doyle/Medi-Cal II claims data and fee-for-service data. In the future this report will incorporate other outpatient and inpatient Medi-Cal SMHS' billed through the Managed Care healthcare delivery systems. Currently, the number of days is capped at 365 days (to mitigate the impact of extreme statistical anomalies) when calculating the mean and max for time between discharge and step down service. This methodology will be updated in the next reporting cycle. Additionally, county specific and population-based reports are based off of the county of the hospital the patient is discharged from and whom has been attributed the time to next service in days used in the calculations for this indicator.

Please contact [cmhpos@dhcs.ca.gov](mailto:cmhpos@dhcs.ca.gov) for any questions regarding this report.

**Demographics Report: Unique Count of Children and Youth Receiving SMHS by Fiscal Year  
Solano County as of August 3, 2016**

SFY	Unique Count Receiving SMHS*	Year-Over-Year Percentage Change	Unique Count of Medi-Cal Eligibles	Year-Over-Year Percentage Change
FY 11-12	1,651		42,404	
FY 12-13	1,825	10.5%	47,559	12.2%
FY 13-14	1,822	-0.2%	53,118	11.7%
FY 14-15	1,770	-2.9%	56,840	7.0%
<b>Compound Annual Growth Rate SFY**</b>		<b>2.3%</b>		<b>10.3%</b>

\*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  
Solano County as of August 3, 2016**

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 11-12	17	1.0%	59	3.6%	510	30.9%	432	26.2%	461	27.9%	47	2.8%	125	7.6%
FY 12-13	15	0.8%	56	3.1%	539	29.5%	485	26.6%	531	29.1%	86	4.7%	113	6.2%
FY 13-14	19	1.0%	53	2.9%	517	28.4%	459	25.2%	539	29.6%	102	5.6%	133	7.3%
FY 14-15	17	1.0%	81	4.6%	493	27.9%	417	23.6%	511	28.9%	105	5.9%	146	8.2%

*Please note: This report uses the Medi-Cal Eligibility Data System (MEDS) to obtain race/ethnicity data. The MEDS data is entered by County Welfare Departments and may differ from data maintained by County Mental Health Plans. For more information, please refer to the Measures Catalog.*

**Demographics Report: Unique Count of Children and Youth Receiving SMHS by Fiscal Year  
Solano County as of August 3, 2016**

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 11-12	411	24.9%	507	30.7%	578	35.0%	155	9.4%
FY 12-13	354	19.4%	570	31.2%	703	38.5%	198	10.8%
FY 13-14	337	18.5%	575	31.6%	738	40.5%	172	9.4%
FY 14-15	302	17.1%	547	30.9%	675	38.1%	246	13.9%

**Demographics Report: Unique Count of Children and Youth Receiving SMHS by Fiscal Year  
Solano County as of August 3, 2016**

Fiscal Year	Female Count	Female %	Male Count	Male %
FY 11-12	681	41.2%	970	58.8%
FY 12-13	806	44.2%	1,019	55.8%
FY 13-14	800	43.9%	1,022	56.1%
FY 14-15	788	44.5%	982	55.5%

**Penetration Rates\* Report: Children and Youth With At Least One SMHS Visit\*\*  
Solano County as of August 3, 2016**

	FY 11-12			FY 12-13			FY 13-14			FY 14-15		
	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
<b>All</b>	<b>1,651</b>	<b>42,404</b>	<b>3.9%</b>	<b>1,825</b>	<b>47,559</b>	<b>3.8%</b>	<b>1,822</b>	<b>53,118</b>	<b>3.4%</b>	<b>1,770</b>	<b>56,840</b>	<b>3.1%</b>
Children 0-5	411	15,533	2.6%	354	16,209	2.2%	337	17,026	2.0%	302	17,433	1.7%
Children 6-11	507	11,527	4.4%	570	13,778	4.1%	575	15,567	3.7%	547	16,690	3.3%
Children 12-17	578	9,691	6.0%	703	11,501	6.1%	738	13,136	5.6%	675	13,976	4.8%
Youth 18-20	155	5,653	2.7%	198	6,071	3.3%	172	7,389	2.3%	246	8,741	2.8%
Alaskan Native or American Indian	17	231	7.4%	15	225	6.7%	19	235	8.1%	17	247	6.9%
Asian or Pacific Islander	59	4,520	1.3%	56	5,312	1.1%	53	6,380	0.8%	81	7,554	1.1%
Black	510	10,394	4.9%	539	10,925	4.9%	517	11,547	4.5%	493	11,912	4.1%
Hispanic	432	14,494	3.0%	485	16,697	2.9%	459	18,201	2.5%	417	18,861	2.2%
White	461	8,311	5.5%	531	8,918	6.0%	539	9,965	5.4%	511	10,665	4.8%
Other	47	2,465	1.9%	86	3,286	2.6%	102	4,249	2.4%	105	5,016	2.1%
Unknown	125	1,989	6.3%	113	2,196	5.1%	133	2,541	5.2%	146	2,585	5.6%
Female	681	21,017	3.2%	806	23,534	3.4%	800	26,216	3.1%	788	27,915	2.8%
Male	970	21,387	4.5%	1,019	24,025	4.2%	1,022	26,902	3.8%	982	28,925	3.4%

\*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 the Medi-Cal Managed Care system.

\*\*Children and Youth that have received at least one SMHS in the Fiscal Year.

Please note: This report uses the Medi-Cal Eligibility Data System (MEDS) to obtain race/ethnicity data. The MEDS data is entered by County Welfare Departments and may differ from data maintained by County Mental Health Plans. For more information, please refer to the Measures Catalog.

**Penetration Rates\* Report: Children and Youth with Five or More SMHS Visits\*\*  
Solano County as of August 3, 2016**

	FY 11-12			FY 12-13			FY 13-14			FY 14-15		
	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
<b>All</b>	<b>1,336</b>	<b>42,404</b>	<b>3.2%</b>	<b>1,387</b>	<b>47,559</b>	<b>2.9%</b>	<b>1,375</b>	<b>53,118</b>	<b>2.6%</b>	<b>1,300</b>	<b>56,840</b>	<b>2.3%</b>
Children 0-5	349	15,533	2.2%	290	16,209	1.8%	297	17,026	1.7%	247	17,433	1.4%
Children 6-11	411	11,527	3.6%	453	13,778	3.3%	423	15,567	2.7%	425	16,690	2.5%
Children 12-17	464	9,691	4.8%	526	11,501	4.6%	552	13,136	4.2%	481	13,976	3.4%
Youth 18-20	112	5,653	2.0%	118	6,071	1.9%	103	7,389	1.4%	147	8,741	1.7%
Alaskan Native or American Indian	14	231	6.1%	^	225	^	15	235	6.4%	12	247	4.9%
Asian or Pacific Islander	42	4,520	0.9%	43	5,312	0.8%	39	6,380	0.6%	49	7,554	0.6%
Black	415	10,394	4.0%	380	10,925	3.5%	382	11,547	3.3%	355	11,912	3.0%
Hispanic	359	14,494	2.5%	378	16,697	2.3%	345	18,201	1.9%	301	18,861	1.6%
White	371	8,311	4.5%	419	8,918	4.7%	417	9,965	4.2%	386	10,665	3.6%
Other	38	2,465	1.5%	^	3,286	^	76	4,249	1.8%	84	5,016	1.7%
Unknown	97	1,989	4.9%	97	2,196	4.4%	101	2,541	4.0%	113	2,585	4.4%
Female	557	21,017	2.7%	590	23,534	2.5%	602	26,216	2.3%	562	27,915	2.0%
Male	779	21,387	3.6%	797	24,025	3.3%	773	26,902	2.9%	738	28,925	2.6%

\*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 the Medi-Cal Managed Care system.

\*\*Children and Youth that have received at least five SMHS in the Fiscal Year.

Please note: This report uses the Medi-Cal Eligibility Data System (MEDS) to obtain race/ethnicity data. The MEDS data is entered by County Welfare Departments and may differ from data maintained by County Mental Health Plans. For more information, please refer to the Measures Catalog.



**Utilization Report\*: Approved Specialty Mental Health Services for Children and Youth  
Mean Expenditures and Mean Service Quantity per Unique Beneficiary by Fiscal Year\*  
Solano County as of August 3, 2016**

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)	Fee for Service Inpatient (Days)	Crisis Residential Treatment Services (Days)	Adult Residential Treatment Services (Days)	Psychiatric Health Facility (Days)
FY 11-12	\$ 6,788.79	0	0	378	1,922	6,901	247	336	0	851	328	0	0	11	16	0	0
FY 12-13	\$ 7,786.96	0	0	335	1,592	6,188	230	278	12	507	653	0	0	12	37	0	0
FY 13-14	\$ 8,716.62	2,139	440	288	1,538	4,937	216	180	16	596	661	0	0	11	25	0	18
FY 14-15	\$ 8,291.98	3,521	1,343	258	1,638	3,862	222	130	16	783	670	0	0	9	22	0	9
<b>MEAN</b>	<b>\$ 7,896.09</b>	<b>2,830</b>	<b>892</b>	<b>315</b>	<b>1,672</b>	<b>5,472</b>	<b>229</b>	<b>231</b>	<b>15</b>	<b>684</b>	<b>578</b>	<b>0</b>	<b>0</b>	<b>11</b>	<b>25</b>	<b>0</b>	<b>14</b>

\*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.

**Snapshot Report: Unique Count of Children and Youth Receiving SMHS  
Arriving, Exiting, and with Service Continuance by Fiscal Year  
Solano County as of August 3, 2016**

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 <b>Arrivals</b> and <b>Exiting</b> 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	457	25.0%	170	9.3%	167	9.1%	415	22.7%	552	30.2%	69	3.8%	1,830	100%
FY 13-14	471	25.8%	167	9.2%	202	11.1%	384	21.1%	549	30.1%	50	2.7%	1,823	100%
FY 14-15	407	23.0%	180	10.2%	175	9.9%	426	24.1%	522	29.5%	60	3.4%	1,770	100%

**Time to Step Down Report: Children and Youth Stepping Down in SMHS Services Post Inpatient Discharge\***  
**Solano County as of August 3, 2016**

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 Between 8 and 30 Days	Percentage of Inpatient Discharges with Step Down Between 8 and 30 Days	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 11-12	230	85.8%	18	6.7%	^	^	^	^	0	365	10.1	0
FY 12-13	238	79.6%	29	9.7%	19	6.4%	13	4.3%	0	365	14.0	0
FY 13-14	298	75.8%	42	10.7%	37	9.4%	16	4.1%	0	365	18.1	0
FY 14-15	326	78.2%	41	9.8%	28	6.7%	22	5.3%	0	365	10.5	0

\* **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 were moved to a community-based program or beneficiaries that were incarcerated.

^ Data has been suppressed to protect patient privacy.