Performance Outcomes Adult Specialty Mental Health Services Report

Report Date August, 2017

Background

This report measures the effectiveness of adult specialty mental health services. It models reports developed to measure Early and Periodic Screening, Diagnosis, and Treatment (EPSDT) mental health services as mandated by Welfare and Institutions Code Section 14707.5. The intent of these reports is to improve outcomes at the individual, program, and system levels and inform fiscal decision-making related to the purchase of services.

Since 2012 DHCS has worked with several groups of stakeholders to create a structure for reporting, to develop a Performance Measurement Paradigm, and to design 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.

Overview

Three reports will be provided: statewide aggregate data; population-based county groups; and county-specific data. These aggregate reports provide adult information on the initial indicators that were developed for the Performance Outcomes System. DHCS plans to move to annual reporting of these data for the Performance Outcomes System.

The first series of charts and tables focus on the demographics of adults 21* and older who are receiving SMHS based on approved claims for Medi-Cal eligible beneficiaries. Specifically, this includes demographics tables of this population by age, gender, and race/ethnicity. Utilization of services reports are shown in terms of dollars, as well as by service in time increments. Two types of penetration information are provided; both penetration rate tables are also broken out by demographic characteristics. The snapshot table provides a point-in-time view of adults 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 stepdown services following inpatient discharge.

Where possible, the reports provide trend information by displaying information for Fiscal Years (FY) 12/13, 13/14, 14/15, and 15/16.

Definitions

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

- Age 21 or older during the approved date of service on the claim.

Data Sources -

- Short-Doyle/Medi-Cal II (SD/MC II) claims with dates of service in FY 12/13 through FY 15/16.
- Medi-Cal Eligibility Data System (MEDS) data from the Management Information System/Decision Support System (MIS/DSS) FY 12/13 through 15/16.

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

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; 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, these data are represented as follows: 1) Data that are missing is indicated as "-" 2) Data that have been suppressed due to privacy concerns is indicated as "^".

Report Highlights

*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 makes comparison between the POS penetration rates and the EQRO penetration rates not appropriate nor 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 adults who received a number of SMHS (1 or 5 for POS) in a FY and dividing that by the total number of Medi-Cal eligible adults 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 adults' movement through the SMHS system. The report uses five general categories to classify if an adult is entering, exiting, continuing services, or a combination of these categories (e.g., arriving and exiting). As of now, this report only classifies adults and their service usage for FY 12/13 through FY15/16. Eventually the snapshot data will be used along with measures of service effectiveness to identify whether adults 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

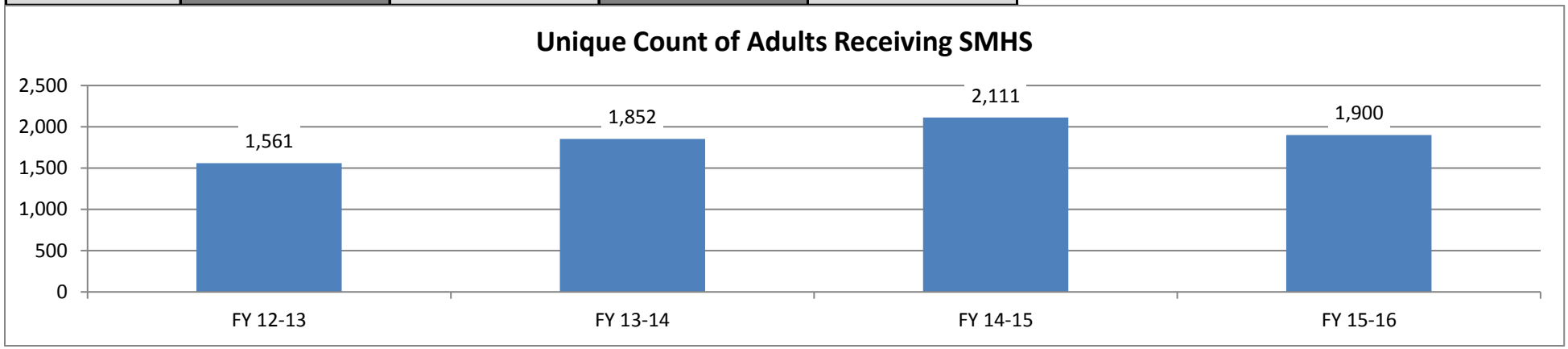
*The psychiatric emergency services/hospital data measured in the **time to step-down services** report relies solely on claims data from Short Doyle/Medi-Cal II. Currently, the number of days is capped at 365 days (to mitigate the impact of extreme statistical anomalies) when calculating the mean and 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 on the county of the hospital from which the patient is discharged and receives step-down services.

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

Demographics Report: Unique Count of Adults Receiving SMHS by Fiscal Year

Shasta County as of August, 2017

SFY	Unique Count Receiving SMHS*	Year-Over-Year Percentage Change	Unique Count of Medi-Cal Eligibles	Year-Over-Year Percentage Change
FY 12-13	1,561		26,331	
FY 13-14	1,852	18.6%	35,934	36.5%
FY 14-15	2,111	14.0%	42,957	19.5%
FY 15-16	1,900	-10.0%	46,125	7.4%
Compound Annual Growth Rate SFY**		**6.8%**		**20.5%**



**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 Adults Receiving SMHS by Fiscal Year

Shasta County as of August, 2017

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 12-13	29	1.9%	82	5.3%	21	1.3%	61	3.9%	1,139	73.0%	^	^	^	^
FY 13-14	43	2.3%	68	3.7%	37	2.0%	70	3.8%	1,336	72.1%	18	1.0%	280	15.1%
FY 14-15	38	1.8%	65	3.1%	36	1.7%	95	4.5%	1,571	74.4%	11	0.5%	295	14.0%
FY 15-16	45	2.4%	57	3.0%	33	1.7%	93	4.9%	1,389	73.1%	^	^	^	^

CHARTS NOT PRODUCED DUE TO SMALL CELL SIZES.

Please note: This report uses the Medi-Cal Eligibility Data System to obtain race/ethnicity data. CDSS uses Child Welfare Services/Case Management System to obtain race/ethnicity data. For more information, please refer to the Measures Catalog.

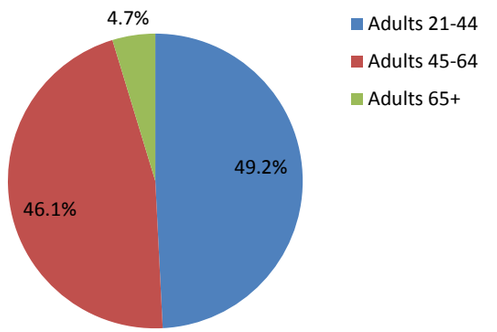
^ Data has been suppressed to protect patient privacy.

Demographics Report: Unique Count of Adults Receiving SMHS by Fiscal Year

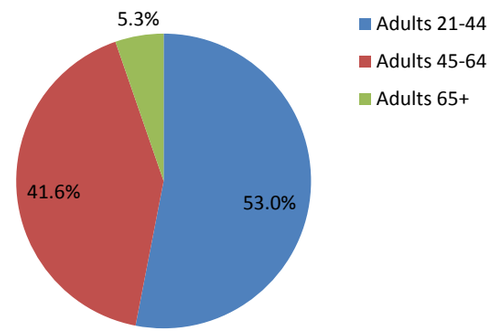
Shasta County as of August, 2017

Fiscal Year	Adults 21-44 Count	Adults 21-44 %	Adults 45-64 Count	Adults 45-64 %	Adults 65+ Count	Adults 65+ %
FY 12-13	768	49.2%	719	46.1%	74	4.7%
FY 13-14	982	53.0%	771	41.6%	99	5.3%
FY 14-15	1,166	55.2%	837	39.6%	108	5.1%
FY 15-16	1,042	54.8%	780	41.1%	78	4.1%

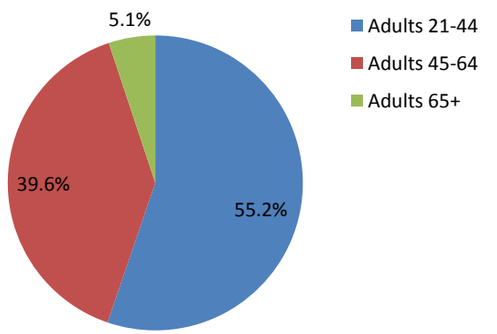
Fiscal Year 12-13 Age Group Distribution



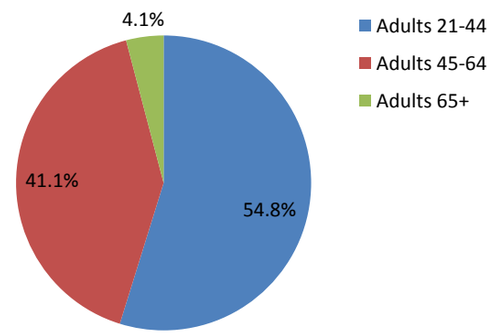
Fiscal Year 13-14 Age Group Distribution



Fiscal Year 14-15 Age Group Distribution



Fiscal Year 15-16 Age Group Distribution

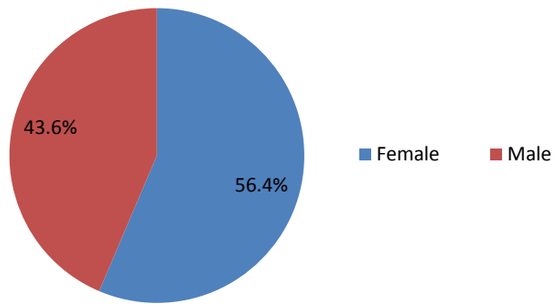


Demographics Report: Unique Count of Adults Receiving SMHS by Fiscal Year

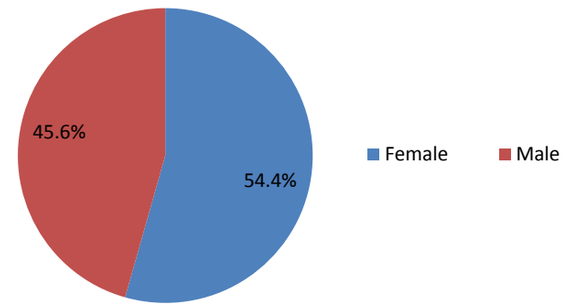
Shasta County as of August, 2017

Fiscal Year	Female Count	Female %	Male Count	Male %
FY 12-13	880	56.4%	681	43.6%
FY 13-14	1,008	54.4%	844	45.6%
FY 14-15	1,104	52.3%	1,007	47.7%
FY 15-16	979	51.5%	921	48.5%

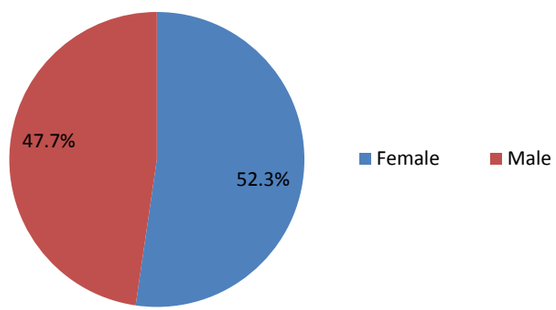
Fiscal Year 12-13 Gender Distribution



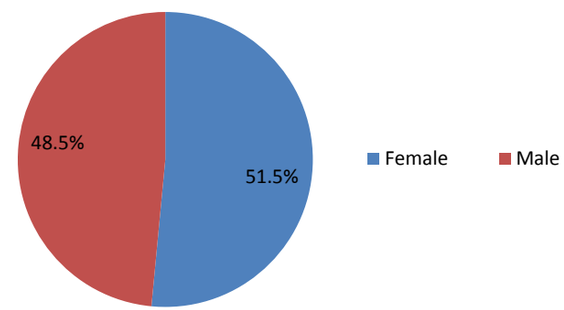
Fiscal Year 13-14 Gender Distribution



Fiscal Year 14-15 Gender Distribution



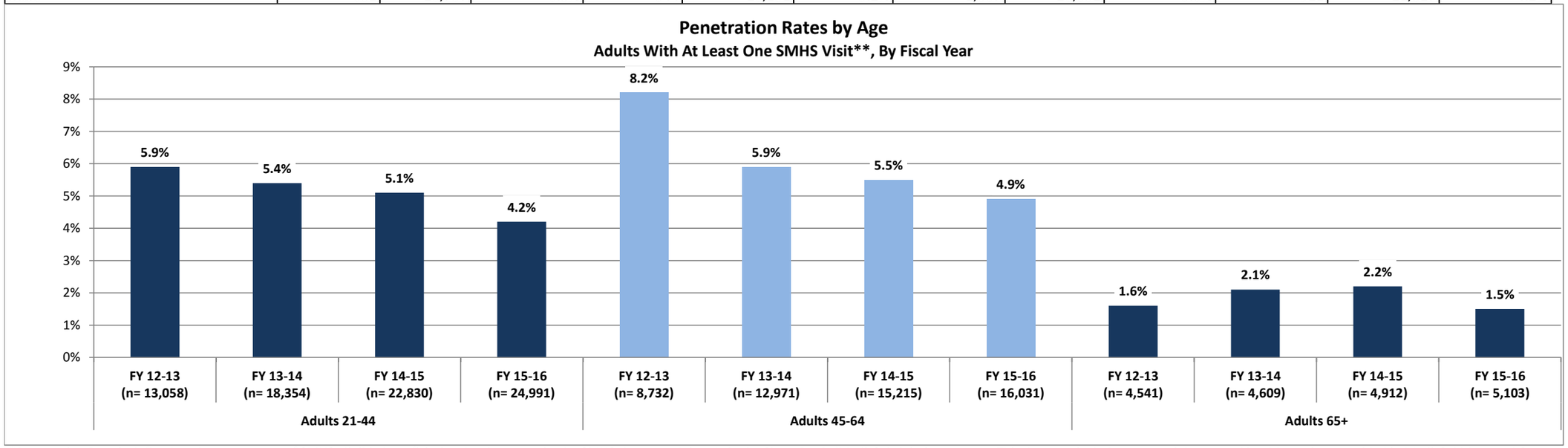
Fiscal Year 15-16 Gender Distribution



Penetration Rates* Report: Adults With At Least One SMHS Visit**

Shasta County as of August, 2017

	FY 12-13			FY 13-14			FY 14-15			FY 15-16		
	Adults and Older Adults with 1 or more SMHS	Certified Eligible Adults and Older Adults	Penetration Rate	Adults and Older Adults with 1 or more SMHS	Certified Eligible Adults and Older Adults	Penetration Rate	Adults and Older Adults with 1 or more SMHS Visits	Certified Eligible Adults and Older Adults	Penetration Rate	Adults and Older Adults with 1 or more SMHS Visits	Certified Eligible Adults and Older Adults	Penetration Rate
All	**1,561**	**26,331**	**5.9%**	**1,852**	**35,934**	**5.2%**	**2,111**	**42,957**	**4.9%**	**1,900**	**46,125**	**4.1%**
Adults 21-44	768	13,058	5.9%	982	18,354	5.4%	1,166	22,830	5.1%	1,042	24,991	4.2%
Adults 45-64	719	8,732	8.2%	771	12,971	5.9%	837	15,215	5.5%	780	16,031	4.9%
Adults 65+	74	4,541	1.6%	99	4,609	2.1%	108	4,912	2.2%	78	5,103	1.5%
Alaskan Native or American Indian	29	859	3.4%	43	1,164	3.7%	38	1,304	2.9%	45	1,412	3.2%
Asian or Pacific Islander	82	906	9.1%	68	1,231	5.5%	65	1,554	4.2%	57	1,734	3.3%
Black	21	395	5.3%	37	544	6.8%	36	671	5.4%	33	721	4.6%
Hispanic	61	1,463	4.2%	70	2,108	3.3%	95	2,741	3.5%	93	3,089	3.0%
White	1,139	20,274	5.6%	1,336	27,593	4.8%	1,571	32,777	4.8%	1,389	34,889	4.0%
Other	^	159	^	18	257	7.0%	11	307	3.6%	^	293	^
Unknown	^	2,275	^	280	3,037	9.2%	295	3,603	8.2%	^	3,987	^
Female	880	15,574	5.7%	1,008	19,783	5.1%	1,104	22,926	4.8%	979	24,308	4.0%
Male	681	10,757	6.3%	844	16,151	5.2%	1,007	20,031	5.0%	921	21,817	4.2%

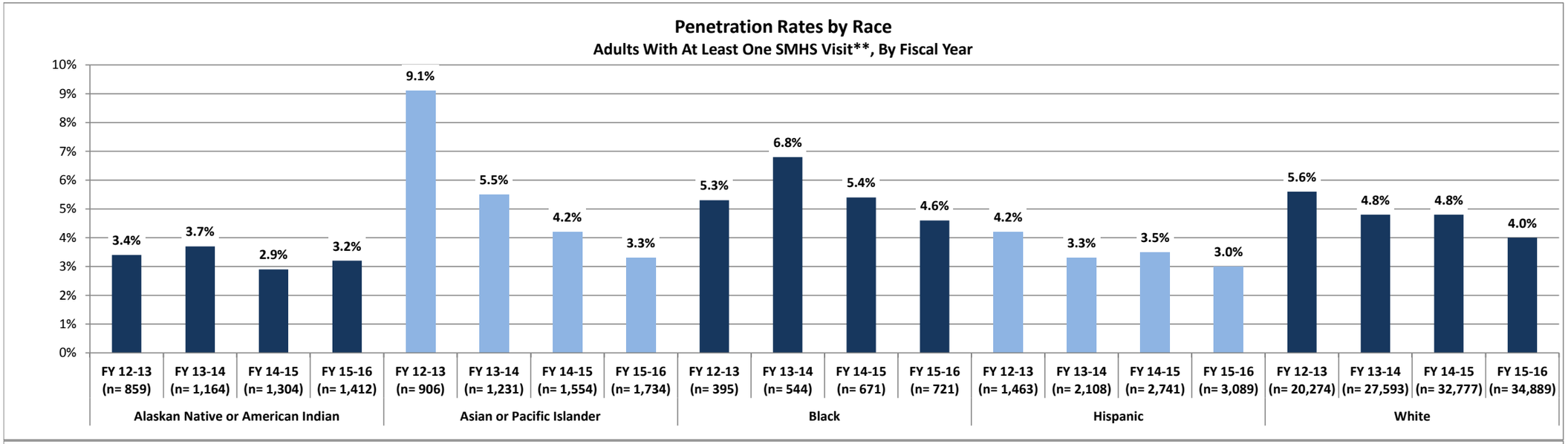


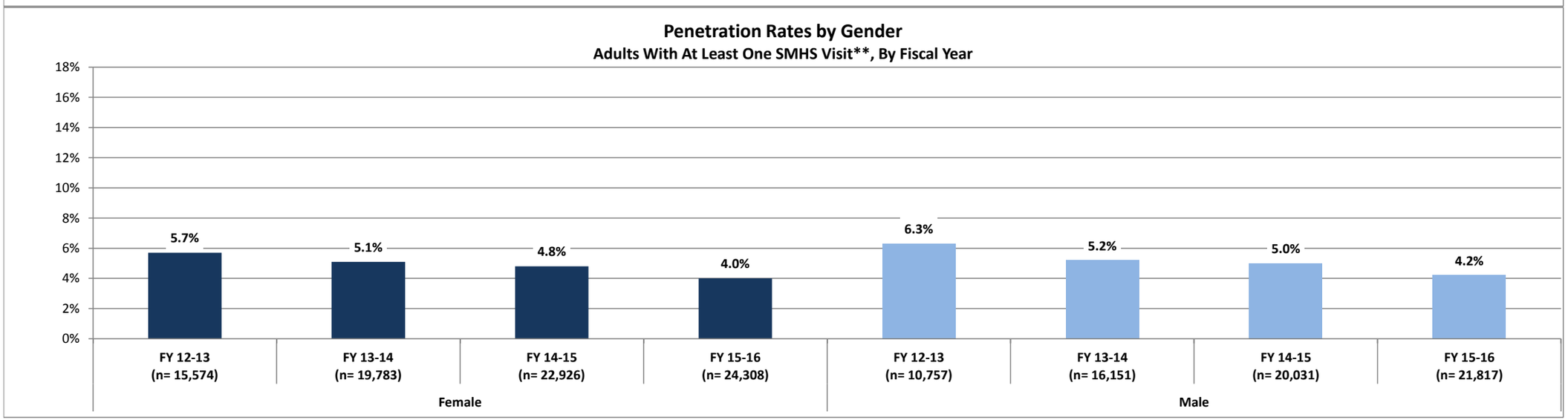
**Penetration Rate is defined as the percentage of SMHS eligible beneficiaries that have received a SMHS that was claimed via the Short-Doyle/Medi-Cal claiming system. This does not include non-specialty mental health services provided in Medi-Cal Managed Care system.*

***Adults and Older Adults 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: Adults With At Least One SMHS Visit**

Shasta County as of August, 2017





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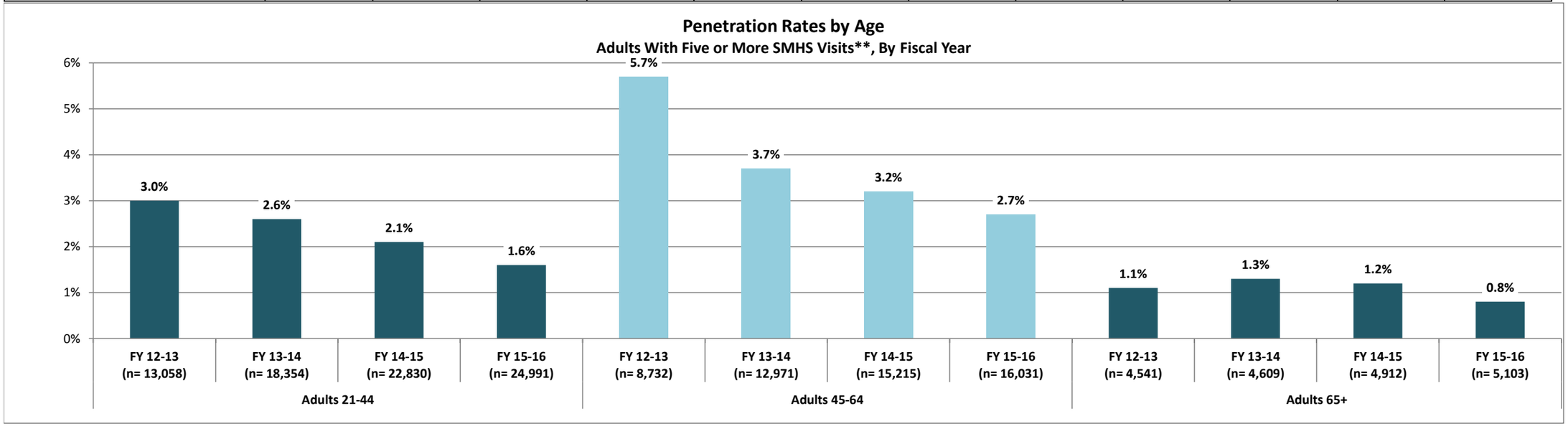
***Adults and Older Adults at least one SMHS that was claimed through the Short-Doyle/ Medi-Cal claiming system on at least one (1) day in the Fiscal Year.*

^ Data has been suppressed to protect patient privacy.

Penetration Rates* Report: Adults with Five or More SMHS Visits**

Shasta County as of August, 2017

	FY 12-13			FY 13-14			FY 14-15			FY 15-16		
	Adults and Older Adults with 5 or more SMHS Visits	Certified Eligible Adults and Older Adults	Penetration Rate	Adults and Older Adults with 5 or more SMHS Visits	Certified Eligible Adults and Older Adults	Penetration Rate	Adults and Older Adults with 5 or more SMHS Visits	Certified Eligible Adults and Older Adults	Penetration Rate	Adults and Older Adults with 5 or more SMHS Visits	Certified Eligible Adults and Older Adults	Penetration Rate
All	**939**	**26,331**	**3.6%**	**1,012**	**35,934**	**2.8%**	**1,022**	**42,957**	**2.4%**	**875**	**46,125**	**1.9%**
Adults 21-44	392	13,058	3.0%	473	18,354	2.6%	484	22,830	2.1%	400	24,991	1.6%
Adults 45-64	496	8,732	5.7%	479	12,971	3.7%	480	15,215	3.2%	433	16,031	2.7%
Adults 65+	51	4,541	1.1%	60	4,609	1.3%	58	4,912	1.2%	42	5,103	0.8%
Alaskan Native or American Indian	17	859	2.0%	18	1,164	1.5%	16	1,304	1.2%	21	1,412	1.5%
Asian or Pacific Islander	50	906	5.5%	47	1,231	3.8%	46	1,554	3.0%	43	1,734	2.5%
Black	14	395	3.5%	20	544	3.7%	17	671	2.5%	13	721	1.8%
Hispanic	31	1,463	2.1%	29	2,108	1.4%	44	2,741	1.6%	34	3,089	1.1%
White	681	20,274	3.4%	727	27,593	2.6%	722	32,777	2.2%	624	34,889	1.8%
Other	^	159	^	^	257	^	^	307	^	^	293	^
Unknown	^	2,275	^	^	3,037	^	^	3,603	^	^	3,987	^
Female	515	15,574	3.3%	558	19,783	2.8%	530	22,926	2.3%	439	24,308	1.8%
Male	424	10,757	3.9%	454	16,151	2.8%	492	20,031	2.5%	436	21,817	2.0%

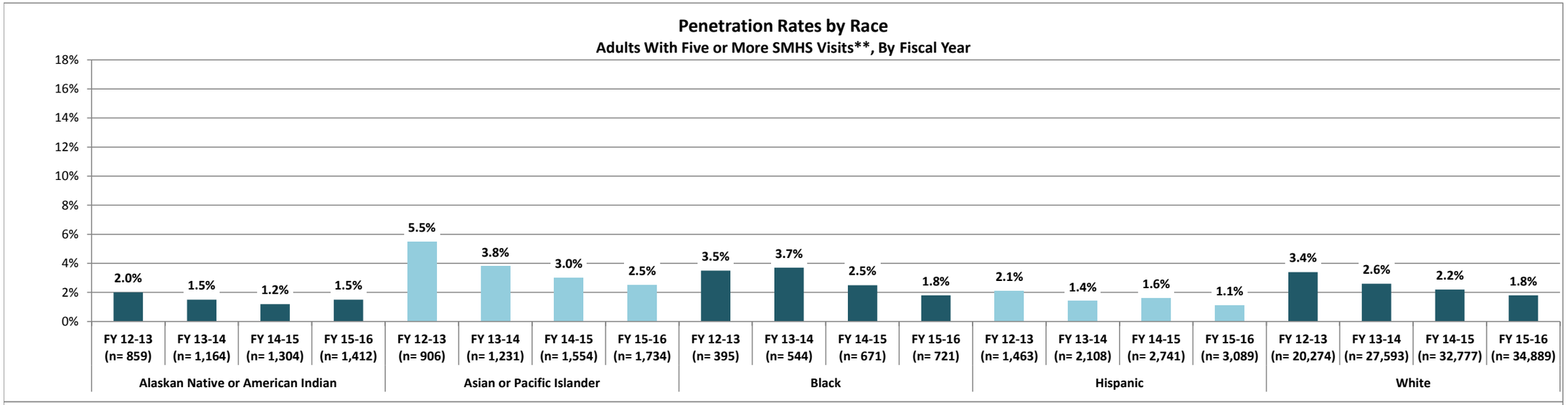


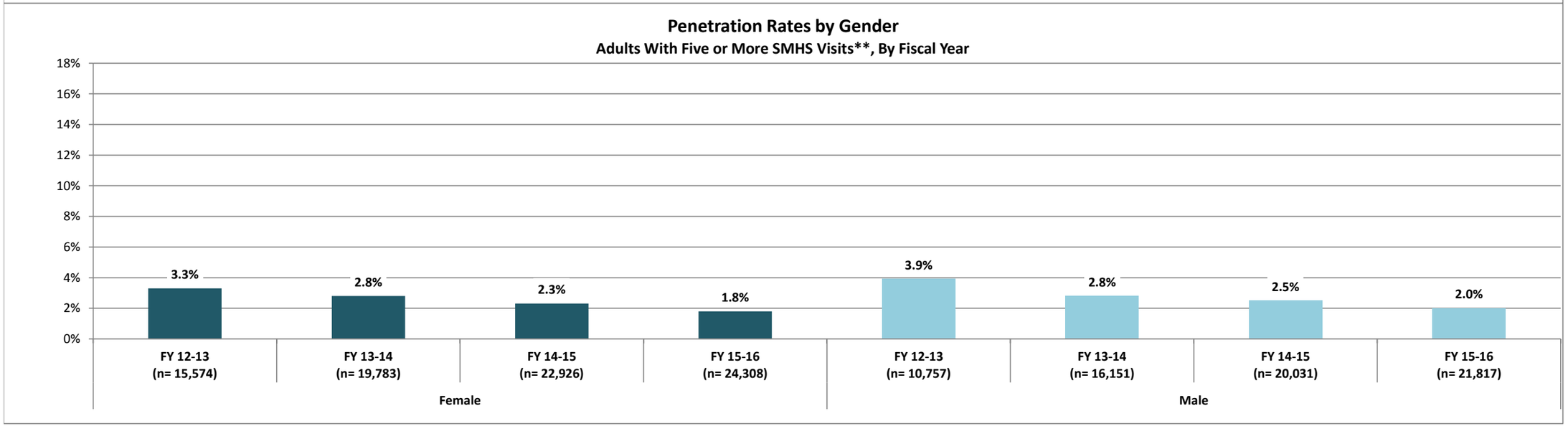
**Penetration Rate is defined as the percentage of SMHS eligible beneficiaries that have received a SMHS that was claimed via the Short-Doyle/Medi-Cal claiming system. This does not include non-specialty mental health services provided in Medi-Cal Managed Care system.*

***Adults and Older Adultsthat 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.*

Penetration Rates* Report: Adults with Five or More SMHS Visits**

Shasta County as of August, 2017





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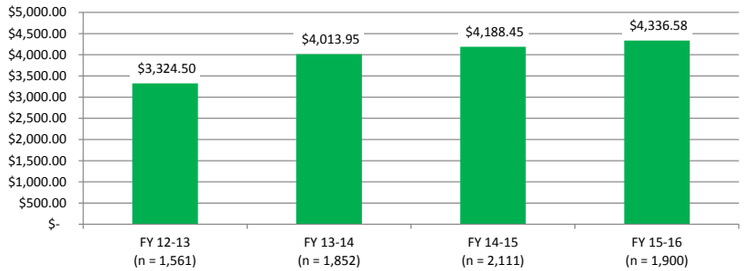
^ Data has been suppressed to protect patient privacy.

Utilization Report*: Approved Specialty Mental Health Services for Adults
Mean Expenditures and Mean Service Quantity per Unique Beneficiary by Fiscal Year*

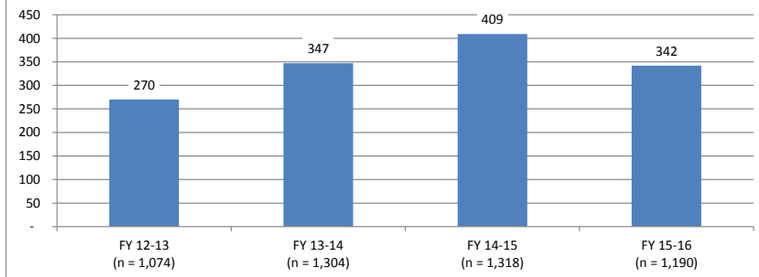
Shasta County as of August, 2017

Fiscal Year	SDMC Total Approved	Case Management/ Brokerage (Minutes)	Mental Health 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 12-13	$ 3,324.50	270	265	335	168	24	0	0	6	34	11	19	8	11
FY 13-14	$ 4,013.95	347	254	374	182	22	0	792	18	17	11	21	0	13
FY 14-15	$ 4,188.45	409	328	427	207	25	0	0	4	0	12	24	103	11
FY 15-16	$ 4,336.58	342	377	480	205	19	0	0	4	12	8	23	79	10
MEAN	**$ 3,965.87**	**342**	**306**	**404**	**190**	**22**	**0**	**792**	**8**	**21**	**11**	**22**	**63**	**11**

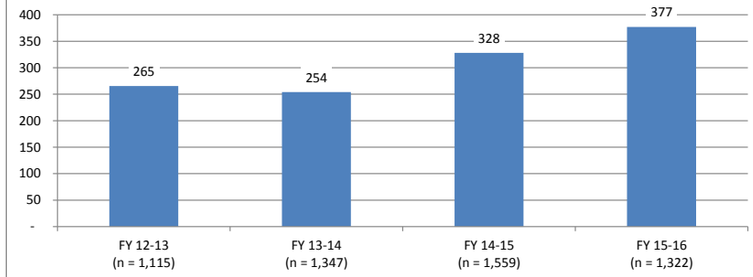
Total Approved Per Unique Beneficiary
By Service Fiscal Year



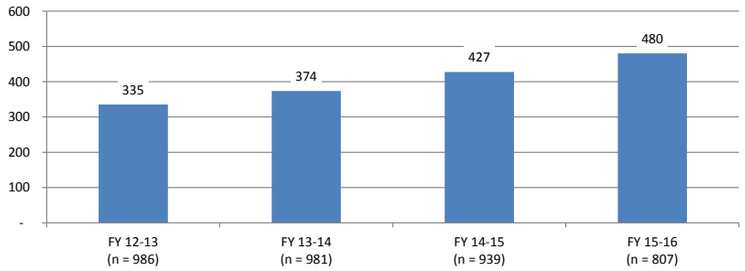
Case Management/Brokerage Minutes Per Unique Beneficiary
By Service Fiscal Year



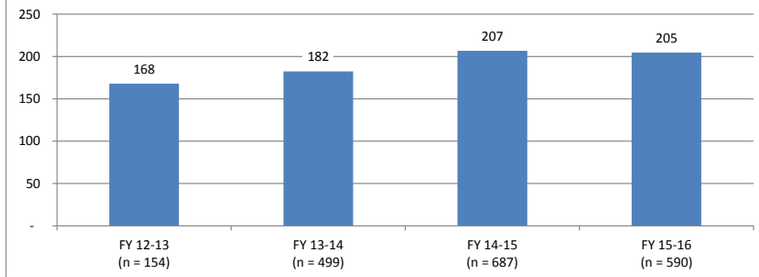
Mental Health Services Minutes Per Unique Beneficiary
By Service Fiscal Year



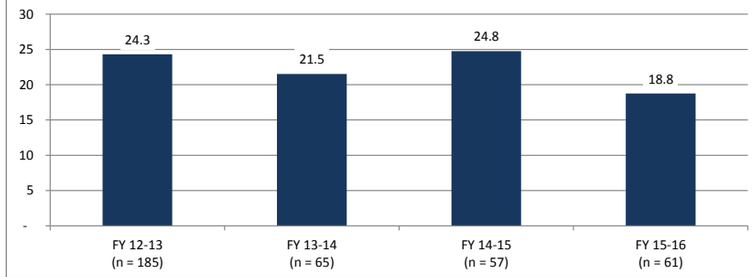
Medication Support Services Minutes Per Unique Beneficiary
By Service Fiscal Year



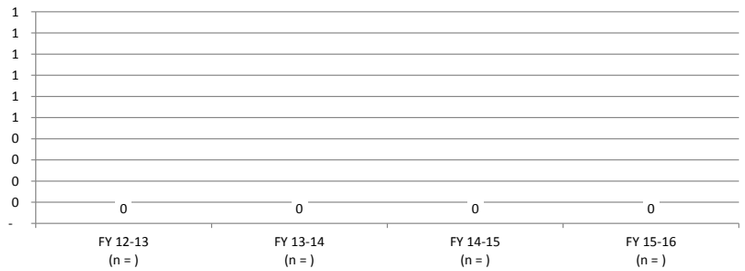
Crisis Intervention Minutes Per Unique Beneficiary
By Service Fiscal Year



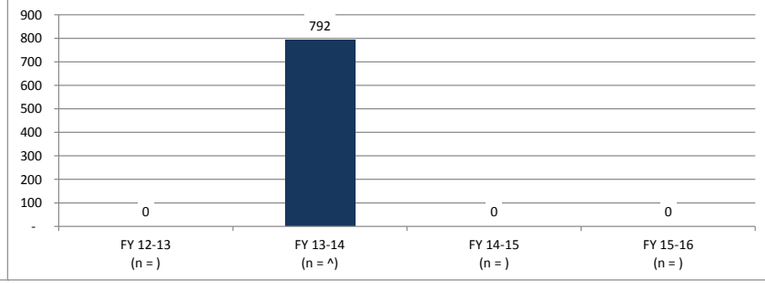
Crisis Stabilization Hours Per Unique Beneficiary
By Service Fiscal Year



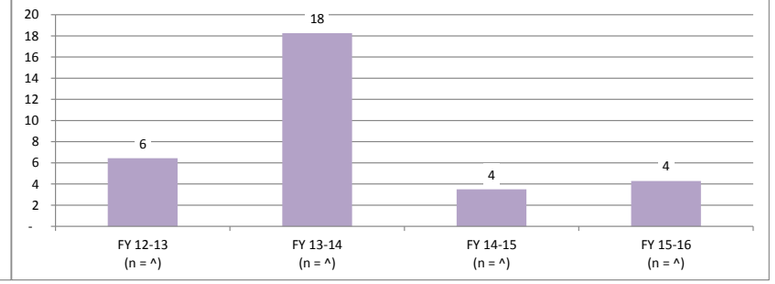
Full Day Treatment Intensive Hours Per Unique Beneficiary
By Service Fiscal Year



Full Day Rehabilitation Hours Per Unique Beneficiary
By Service Fiscal Year



Hospital Inpatient Days Per Unique Beneficiary
By Service Fiscal Year

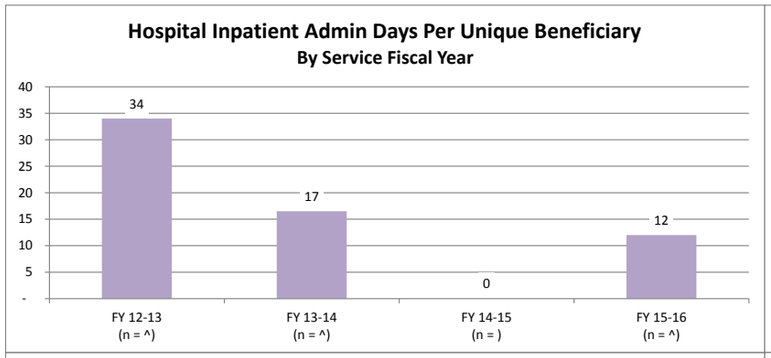


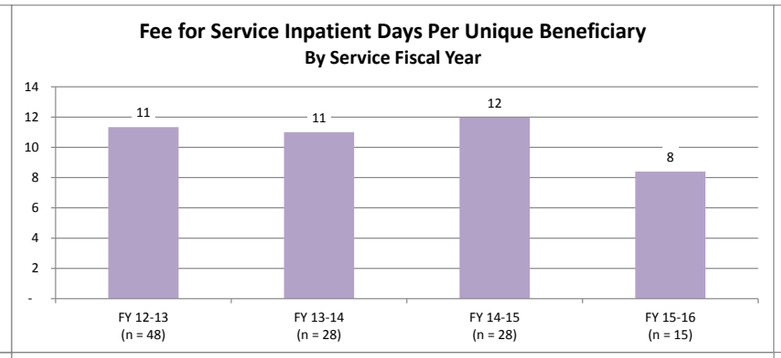
**The graphs are color coded so that those reported in the same unit of analysis (e.g., minutes) are colored similarly.*

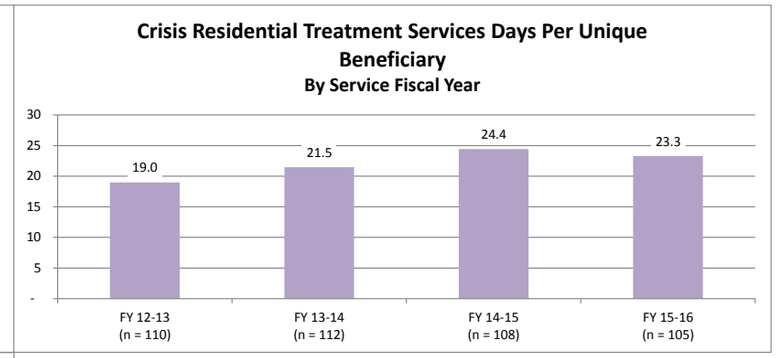
Please note that (n) values listed at the bottom of each bar graph represent the actual number of children/youth that received the SMHS represented in their respective graph by Fiscal Year.

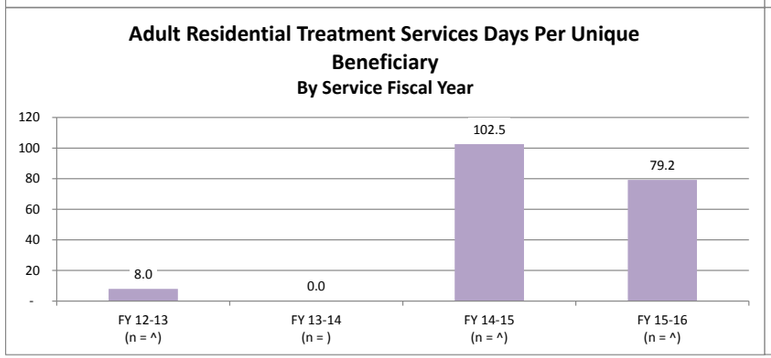
^ Data has been suppressed to protect patient privacy.

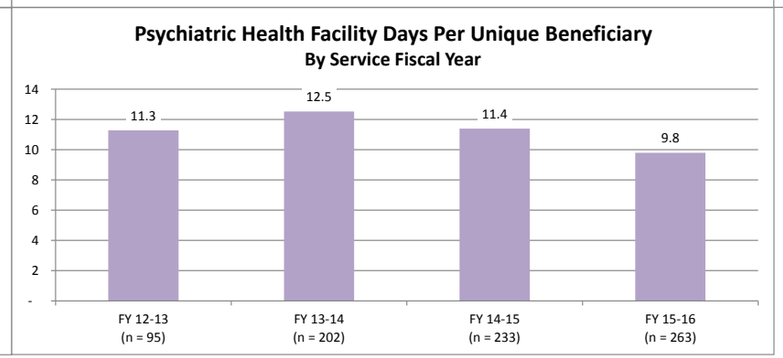
Utilization Report*: Approved Specialty Mental Health Services for Adults
Mean Expenditures and Mean Service Quantity per Unique Beneficiary by Fiscal Year*
Shasta County as of August, 2017











**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.

^ Data has been suppressed to protect patient privacy.

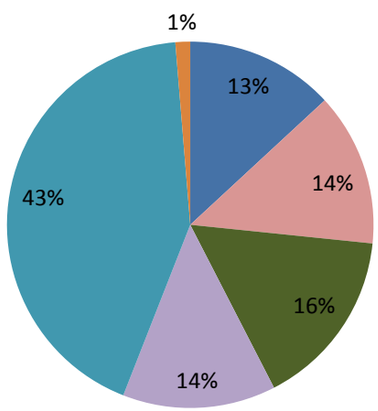
Snapshot Report: Unique Count of Adults Receiving SMHS
Arriving, Exiting, and with Service Continuance by Fiscal Year

Shasta County as of August, 2017

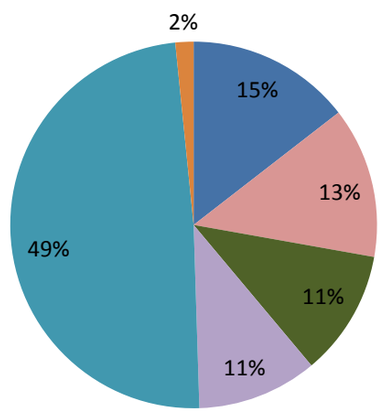
Category	Description (Please refer to the Measures Catalog for more detailed descriptions on all Performance Outcomes System measures.)
Arrivals	Adults that did not receive any SMHS within 3 months of their first date of service in the Fiscal Year.
Service Continuance	Adults receiving continuous services 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	Adults 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 Adults met both the criteria for Arrivals and Exiting above for the fiscal year.
Service Continuance & Exiting	A distinct category in which Adults 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	205	13.1%	210	13.5%	247	15.8%	211	13.5%	667	42.7%	21	1.3%	1,561	100%
FY 13-14	268	14.5%	246	13.3%	206	11.1%	197	10.6%	906	48.9%	29	1.6%	1,852	100%
FY 14-15	195	9.2%	261	12.4%	183	8.7%	244	11.6%	1,184	56.1%	44	2.1%	2,111	100%
FY 15-16	168	8.8%	184	9.7%	153	8.1%	284	14.9%	1,074	56.5%	37	1.9%	1,900	100%

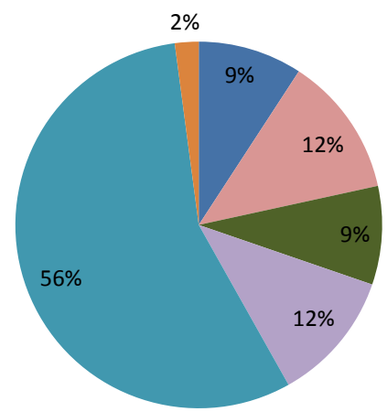
Fiscal Year 12-13 Arrivals, Service Continuance, & Exits Distribution



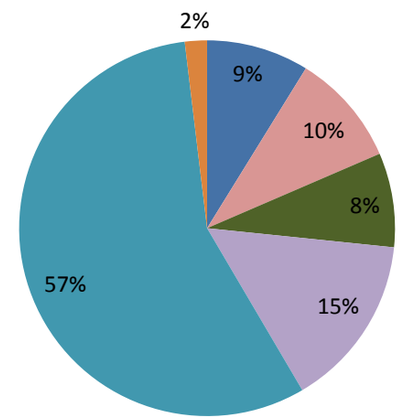
Fiscal Year 13-14 Arrivals, Service Continuance, & Exits Distribution



Fiscal Year 14-15 Arrivals, Service Continuance, & Exits Distribution



Fiscal Year 15-16 Arrivals, Service Continuance, & Exits Distribution



- Arrivals
- Service Continuance (>= 2 YR)
- Service Continuance (< 2 YR)
- Exiting
- Arriving & Exiting
- Service Continuance (>= 2 YR) & Exiting

Time to Step Down Report: Adults Stepping Down in SMHS Services Post Inpatient Discharge*

Shasta County as of August, 2017

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 12-13	52	81.3%	^	^	^	^	0	0.0%	0	332	21.9	0
FY 13-14	31	70.5%	^	^	^	^	^	^	0	335	26.8	0
FY 14-15	27	71.1%	^	^	^	^	^	^	0	202	21.0	0
FY 14-15	^	^	^	^	^	^	^	^	0	236	40.7	5

CHARTS NOT PRODUCED DUE TO SMALL CELL SIZES.

** **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.