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.

Where possible, the reports provide trend information by displaying information for Fiscal Years (FY) 10/11, 11/12, 12/13, and 13/14.

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 is 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). ***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. 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.

Performance Outcomes System Initial Reports

Report run on July 29, 2015

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

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 back to the first meeting in 2012. To obtain this information go to: http: http://www.dhcs.ca.gov/provgovpart/pos/Pages/default.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/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 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.

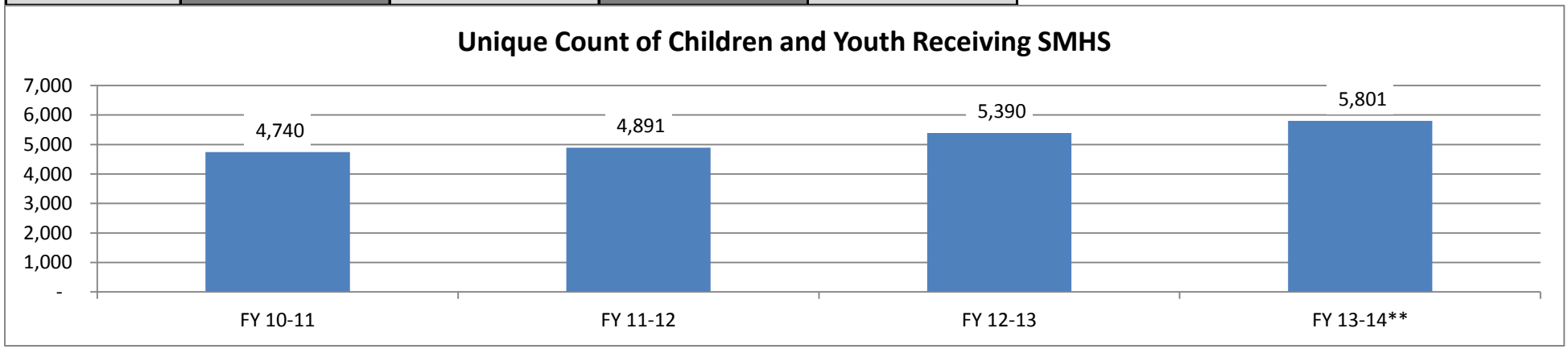
*DHCS is in process of updating the data source for the two following types of Service Usage: ***Hospital Inpatient*** and ***Hospital Inpatient Admin..*** This is being done to ensure the findings are complete. June 1016 is slated for an update of the POS reports and will include fee-for service data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

Tulare 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	4,740		108,894	
FY 11-12	4,891	3.2%	112,332	3.2%
FY 12-13	5,390	10.2%	123,880	10.3%
FY 13-14**	5,801	7.6%	130,326	5.2%
Compound Annual Growth Rate SFY**		**7.0%**		**6.2%**



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

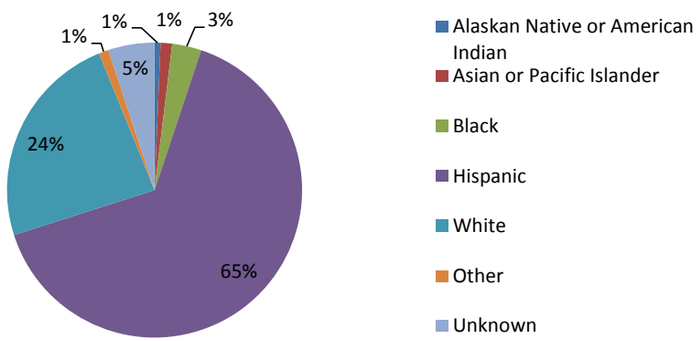
***SFY = State Fiscal Year which is July 1 through June 30.*

Demographics Report: Unique Count of Children and Youth Receiving SMHS by Fiscal Year

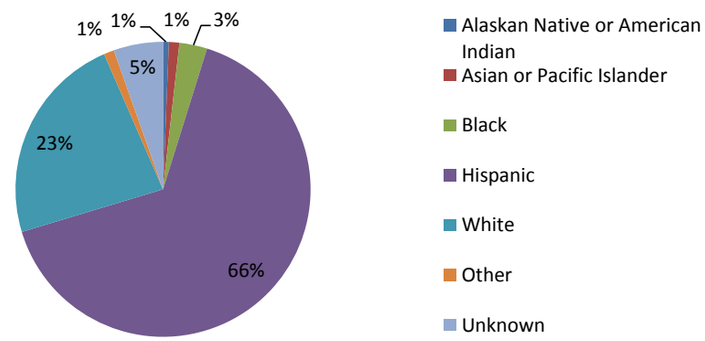
Tulare County as of July 29, 2015

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	31	0.7%	60	1.3%	152	3.2%	3,078	64.9%	1,128	23.8%	51	1.1%	240	5.1%
FY 11-12	31	0.6%	56	1.1%	149	3.0%	3,204	65.5%	1,131	23.1%	55	1.1%	265	5.4%
FY 12-13	25	0.5%	66	1.2%	144	2.7%	3,625	67.3%	1,179	21.9%	58	1.1%	293	5.4%
FY 13-14	32	0.6%	76	1.3%	137	2.4%	3,922	67.6%	1,197	20.6%	70	1.2%	367	6.3%

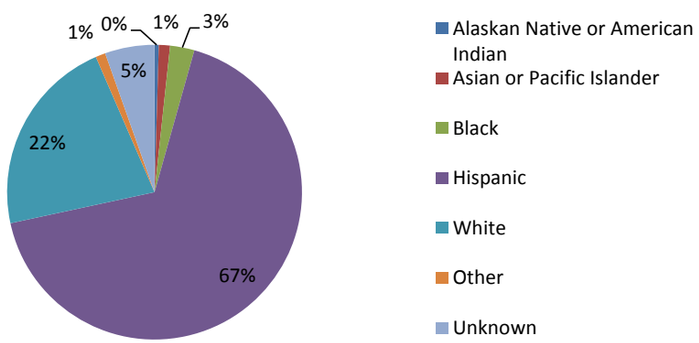
Fiscal Year 10-11 Race Distribution



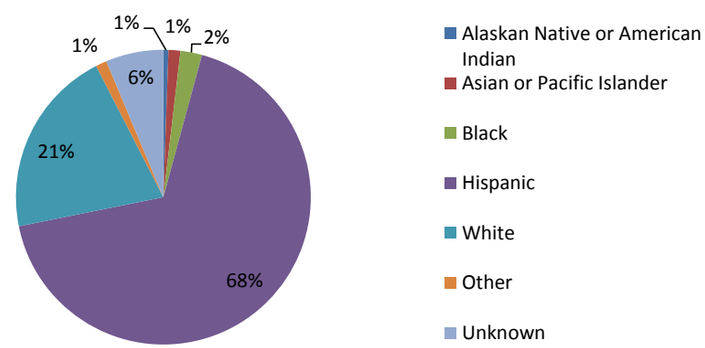
Fiscal Year 11-12 Race Distribution



Fiscal Year 12-13 Race Distribution



Fiscal Year 13-14 Race Distribution



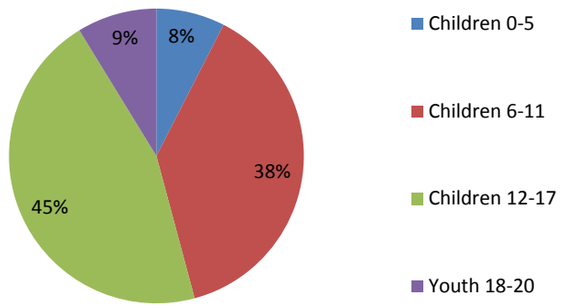
^ Data has been suppressed to protect patient privacy.

Demographics Report: Unique Count of Children and Youth Receiving SMHS by Fiscal Year

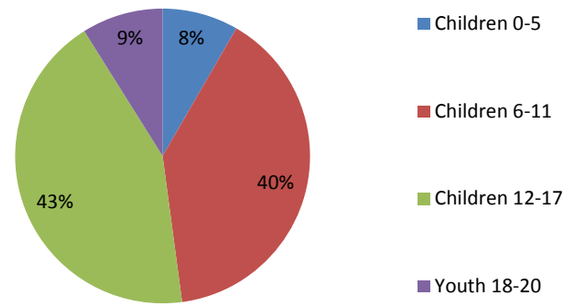
Tulare County as of July 29, 2015

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	357	7.5%	1,815	38.3%	2,153	45.4%	415	8.8%
FY 11-12	408	8.3%	1,934	39.5%	2,113	43.2%	436	8.9%
FY 12-13	420	7.8%	2,154	40.0%	2,364	43.9%	452	8.4%
FY 13-14	441	7.6%	2,261	39.0%	2,594	44.7%	505	8.7%

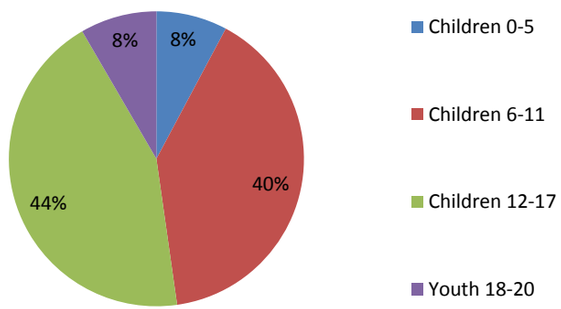
Fiscal Year 10-11 Age Group Distribution



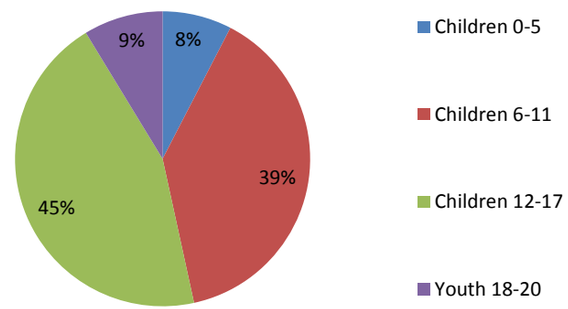
Fiscal Year 11-12 Age Group Distribution



Fiscal Year 12-13 Age Group Distribution



Fiscal Year 13-14 Age Group Distribution



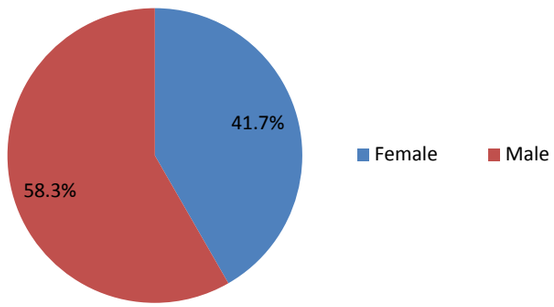
^ Data has been suppressed to protect patient privacy.

Demographics Report: Unique Count of Children and Youth by Fiscal Year

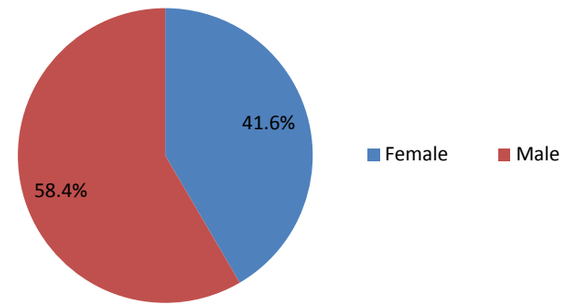
Tulare County as of July 29, 2015

Fiscal Year	Female Count	Female %	Male Count	Male %
FY 10-11	1,976	41.7%	2,764	58.3%
FY 11-12	2,033	41.6%	2,858	58.4%
FY 12-13	2,248	41.7%	3,142	58.3%
FY 13-14	2,438	42.0%	3,363	58.0%

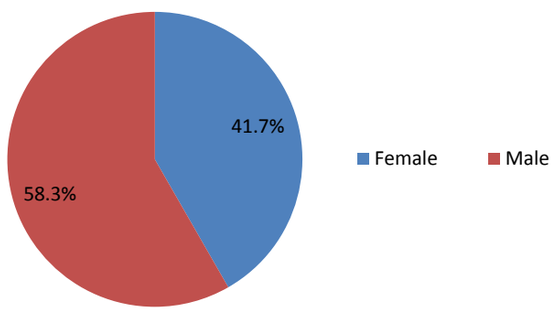
Fiscal Year 10-11 Gender Distribution



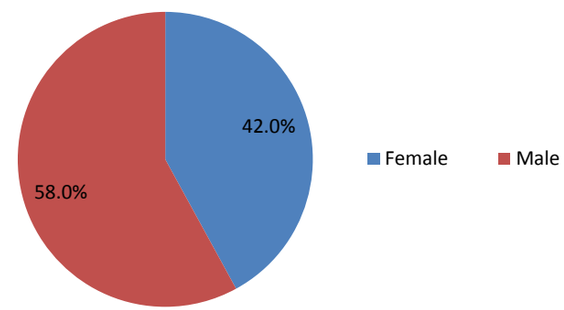
Fiscal Year 11-12 Gender Distribution



Fiscal Year 12-13 Gender Distribution



Fiscal Year 13-14 Gender Distribution



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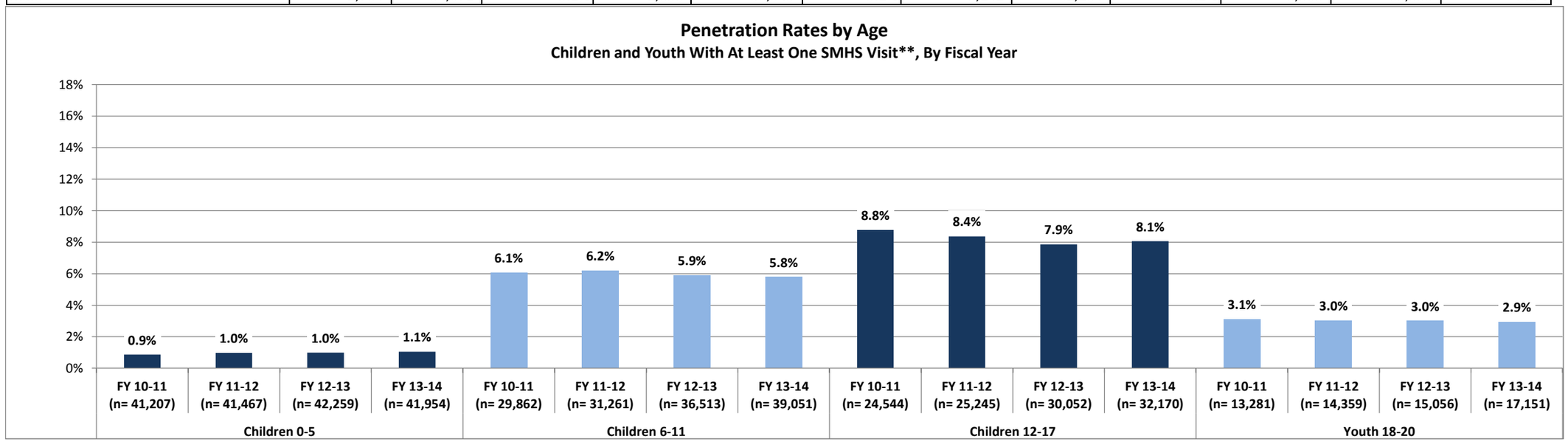
Penetration Rates* Report: Children and Youth With At Least One SMHS Visit**

Tulare 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	**4,740**	**108,894**	**4.4%**	**4,891**	**112,332**	**4.4%**	**5,390**	**123,880**	**4.4%**	**5,801**	**130,326**	**4.5%**
Children 0-5	357	41,207	0.9%	408	41,467	1.0%	420	42,259	1.0%	441	41,954	1.1%
Children 6-11	1,815	29,862	6.1%	1,934	31,261	6.2%	2,154	36,513	5.9%	2,261	39,051	5.8%
Children 12-17	2,153	24,544	8.8%	2,113	25,245	8.4%	2,364	30,052	7.9%	2,594	32,170	8.1%
Youth 18-20	415	13,281	3.1%	436	14,359	3.0%	452	15,056	3.0%	505	17,151	2.9%
Alaskan Native or American Indian	31	610	5.1%	31	638	4.9%	25	621	4.0%	32	647	4.9%
Asian or Pacific Islander	60	4,044	1.5%	56	3,930	1.4%	66	4,230	1.6%	76	4,540	1.7%
Black	152	1,987	7.6%	149	1,970	7.6%	144	2,013	7.2%	137	2,071	6.6%
Hispanic	3,078	79,499	3.9%	3,204	82,540	3.9%	3,625	91,761	4.0%	3,922	96,370	4.1%
White	1,128	15,102	7.5%	1,131	15,321	7.4%	1,179	16,494	7.1%	1,197	17,111	7.0%
Other	51	2,383	2.1%	55	2,454	2.2%	58	3,206	1.8%	70	3,748	1.9%
Unknown	240	5,269	4.6%	265	5,479	4.8%	293	5,555	5.3%	367	5,839	6.3%
Female	1,976	54,223	3.6%	2,033	55,983	3.6%	2,248	61,696	3.6%	2,438	64,771	3.8%
Male	2,764	54,671	5.1%	2,858	56,349	5.1%	3,142	62,184	5.1%	3,363	65,555	5.1%



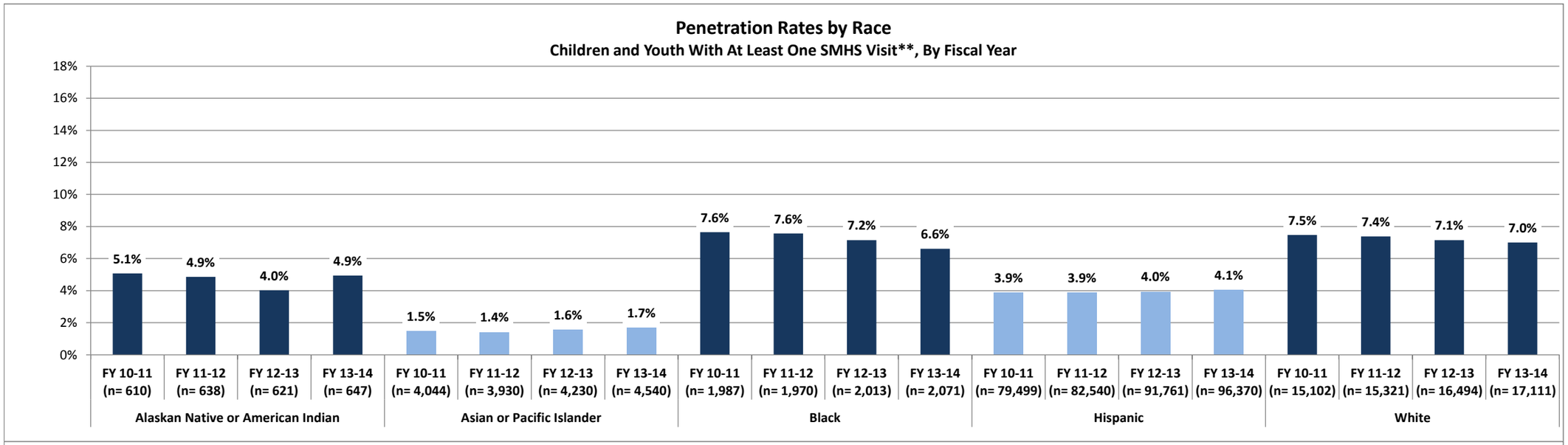
**Penetration Rate is defined as the percentage of SMHS eligible beneficiaries that have received a SMHS that was claimed via the Short-Doyle/Medi-Cal claiming system. This does not include non-specialty mental health services provided in Medi-Cal Managed Care system.*

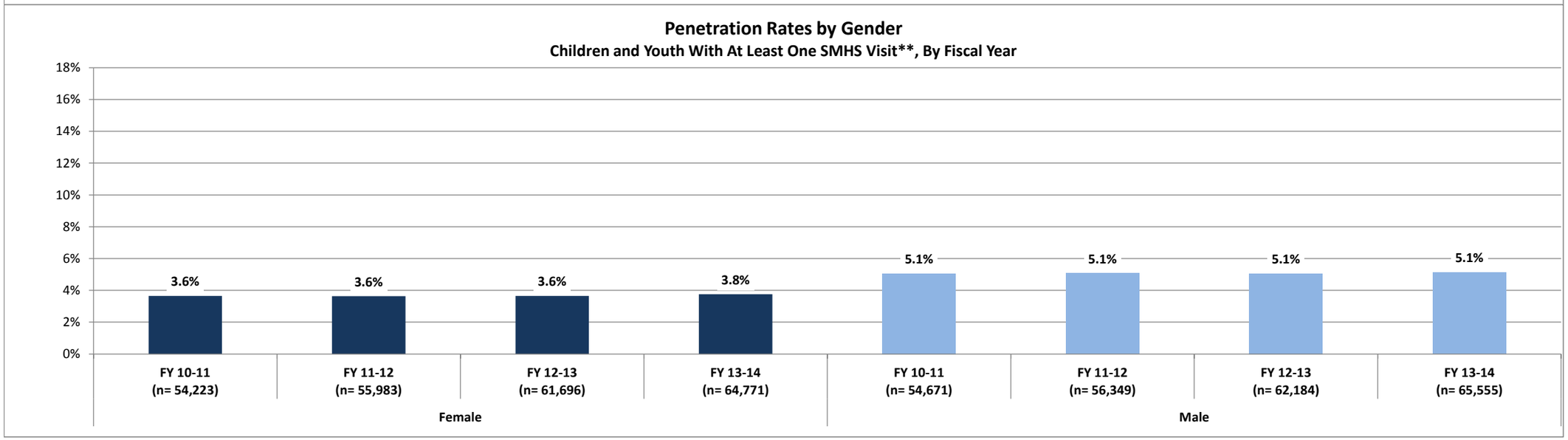
***Children and Youth that have received at least one SMHS that was claimed through the Short-Doyle/ Medi-Cal claiming system on at least one (1) day in the Fiscal Year.*

^ Data has been suppressed to protect patient privacy.

Penetration Rates* Report: Children and Youth With At Least One SMHS Visit**

Tulare County as of July 29, 2015





**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.*

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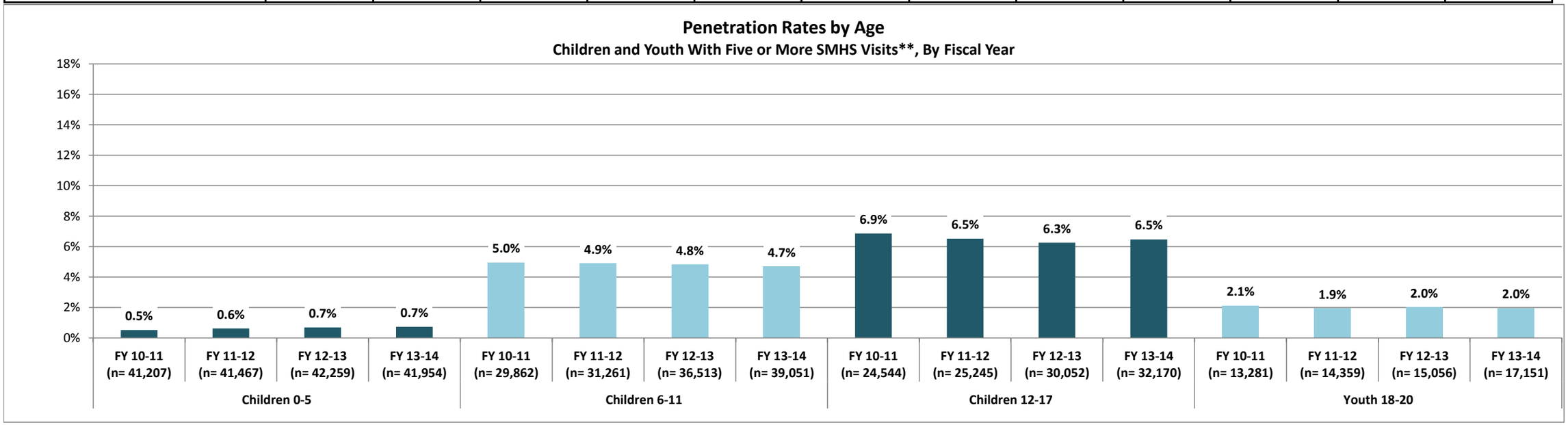
Penetration Rates* Report: Children and Youth With Five or More SMHS Visits**

Tulare 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	**3,663**	**108,894**	**3.4%**	**3,714**	**112,332**	**3.3%**	**4,235**	**123,880**	**3.4%**	**4,563**	**130,326**	**3.5%**
Children 0-5	216	41,207	0.5%	259	41,467	0.6%	294	42,259	0.7%	309	41,954	0.7%
Children 6-11	1,480	29,862	5.0%	1,529	31,261	4.9%	1,755	36,513	4.8%	1,833	39,051	4.7%
Children 12-17	1,685	24,544	6.9%	1,647	25,245	6.5%	1,881	30,052	6.3%	2,083	32,170	6.5%
Youth 18-20	282	13,281	2.1%	279	14,359	1.9%	305	15,056	2.0%	338	17,151	2.0%
Alaskan Native or American Indian	27	610	4.4%	23	638	3.6%	20	621	3.2%	22	647	3.4%
Asian or Pacific Islander	44	4,044	1.1%	41	3,930	1.0%	48	4,230	1.1%	63	4,540	1.4%
Black	119	1,987	6.0%	108	1,970	5.5%	113	2,013	5.6%	105	2,071	5.1%
Hispanic	2,349	79,499	3.0%	2,412	82,540	2.9%	2,814	91,761	3.1%	3,017	96,370	3.1%
White	888	15,102	5.9%	867	15,321	5.7%	942	16,494	5.7%	975	17,111	5.7%
Other	37	2,383	1.6%	46	2,454	1.9%	49	3,206	1.5%	60	3,748	1.6%
Unknown	199	5,269	3.8%	217	5,479	4.0%	249	5,555	4.5%	321	5,839	5.5%
Female	1,509	54,223	2.8%	1,525	55,983	2.7%	1,741	61,696	2.8%	1,861	64,771	2.9%
Male	2,154	54,671	3.9%	2,189	56,349	3.9%	2,494	62,184	4.0%	2,702	65,555	4.1%



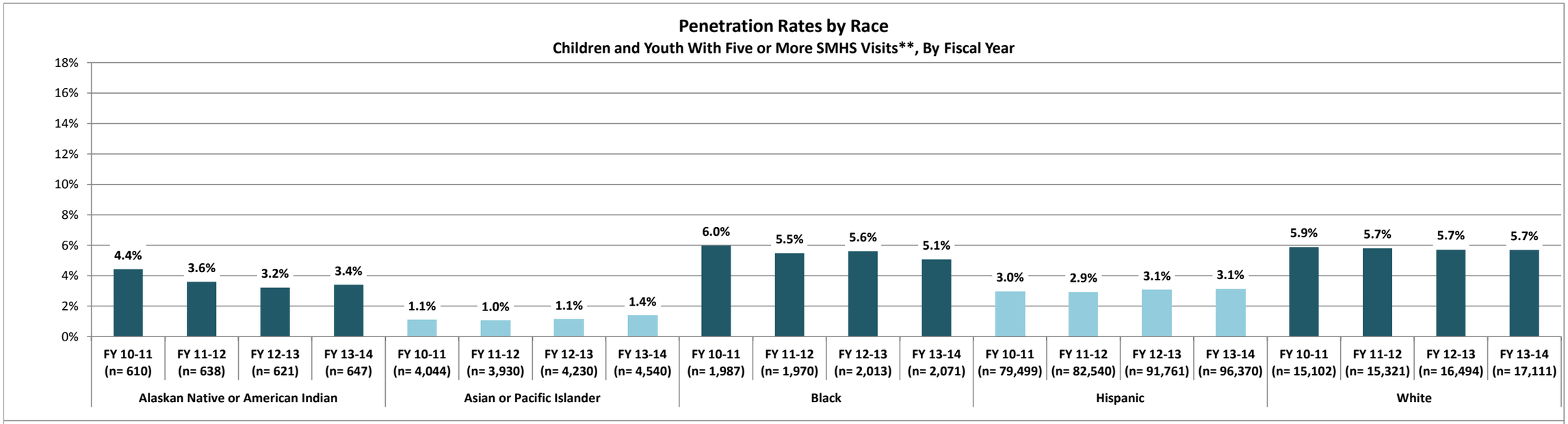
**Penetration Rate is defined as the percentage of SMHS eligible beneficiaries that have received a SMHS that was claimed via the Short-Doyle/Medi-Cal claiming system. This does not include non-specialty mental health services provided in Medi-Cal Managed Care system.*

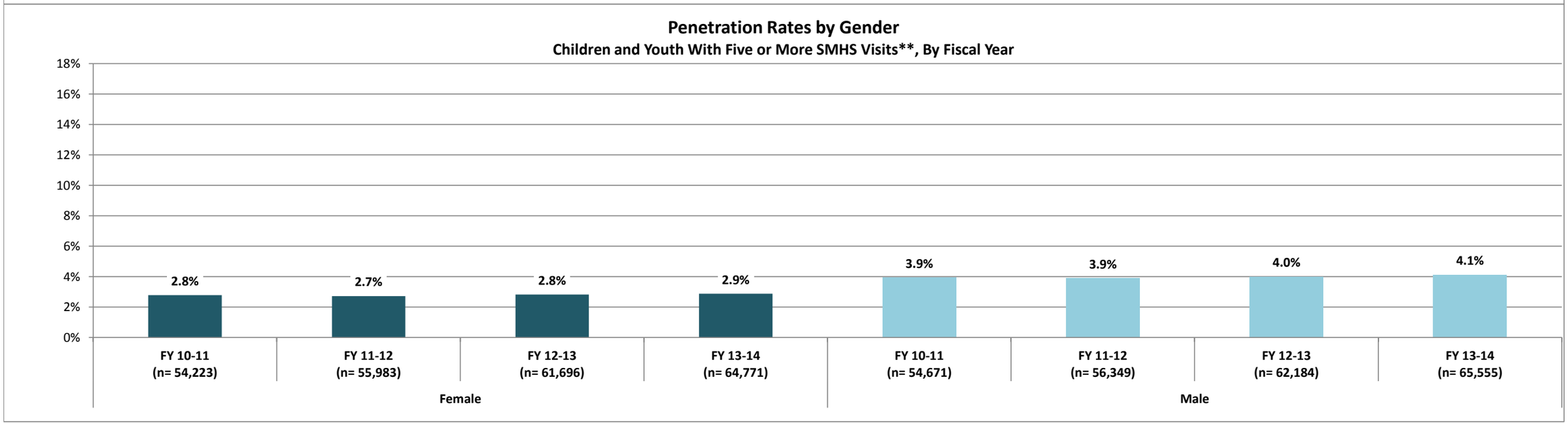
***Children and Youth that have received at least five SMHS that were claimed through the Short-Doyle/ Medi-Cal claiming system on at least five (5) or more different days in the Fiscal Year.*

^ Data has been suppressed to protect patient privacy.

Penetration Rates* Report: Children and Youth With Five or More SMHS Visits**

Tulare County as of July 29, 2015





**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.*

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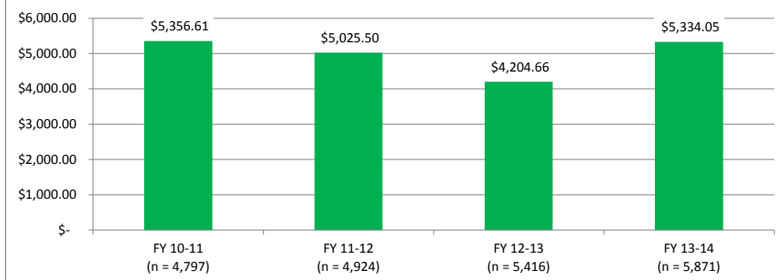
Utilization Report*: Approved Specialty Mental Health Services for Children and Youth
Mean Expenditures and Mean Service Quantity per Unique Beneficiary by Fiscal Year**

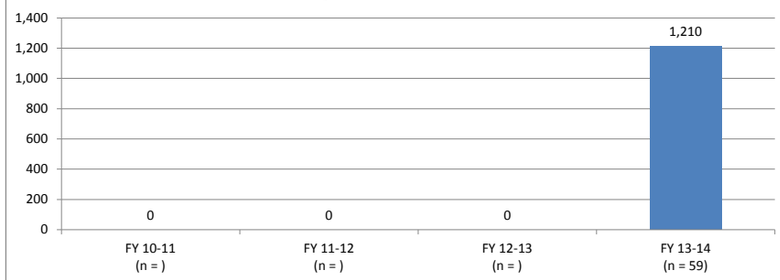
Tulare County as of July 29, 2015

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	$ 5,356.61	0	0	267	1413	3737	623	221	0	641	0	N/A	N/A	0	0	0
FY 11-12	$ 5,025.50	0	0	234	1311	4003	630	221	0	375	0	N/A	N/A	0	0	159
FY 12-13	$ 4,204.66	0	0	234	1322	3352	589	189	0	207	0	N/A	N/A	0	0	313
FY 13-14	$ 5,334.05	1210	249	263	1477	4007	565	228	0	1146	0	N/A	N/A	0	0	358
MEAN	**$ 4,980.21**	**1210**	**249**	**250**	**1381**	**3775**	**602**	**215**	**0**	**592**	**0**	**N/A**	**N/A**	**0**	**0**	**277**

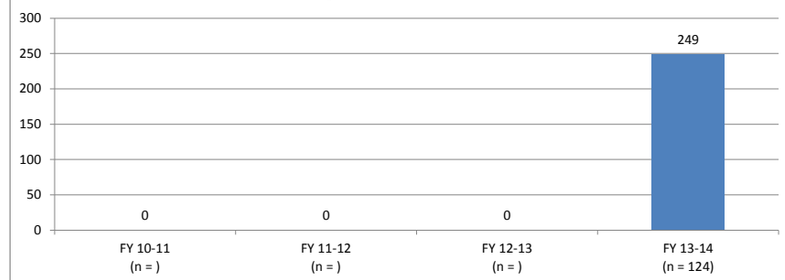
Total Approved Per Unique Beneficiary
By Service Fiscal Year



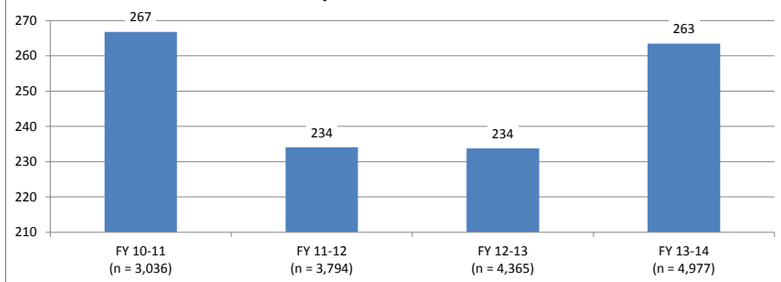
IHBS Minutes Per Unique Beneficiary
By Service Fiscal Year



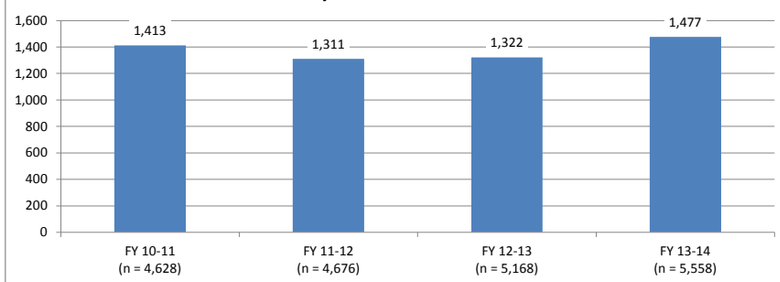
ICC Minutes Per Unique Beneficiary
By Service Fiscal Year



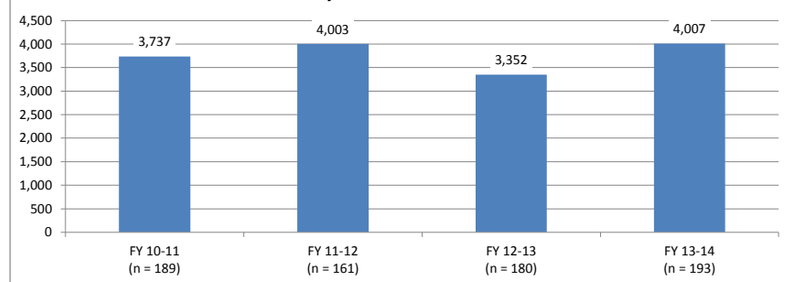
Case Management/Brokerage Minutes Per Unique Beneficiary
By Service Fiscal Year



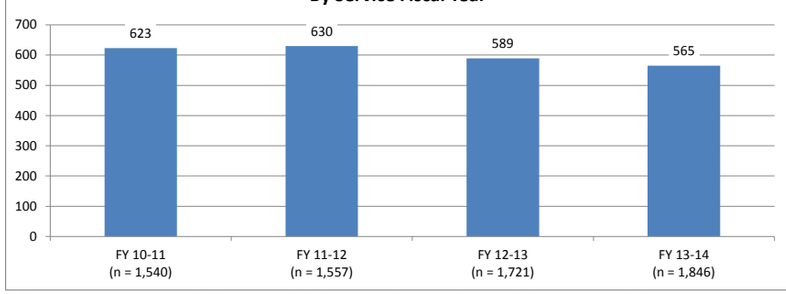
Mental Health Services Minutes Per Unique Beneficiary
By Service Fiscal Year



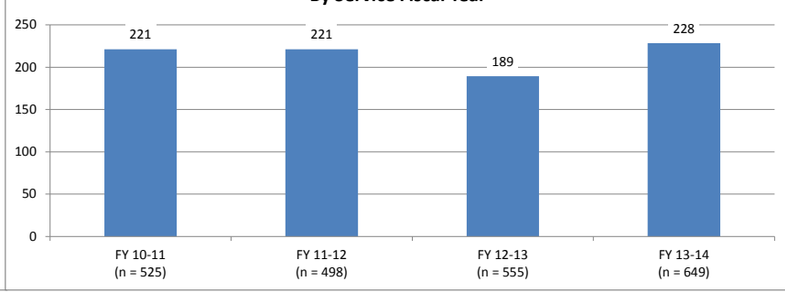
Therapeutic Behavioral Services Minutes Per Unique Beneficiary
By Service Fiscal Year



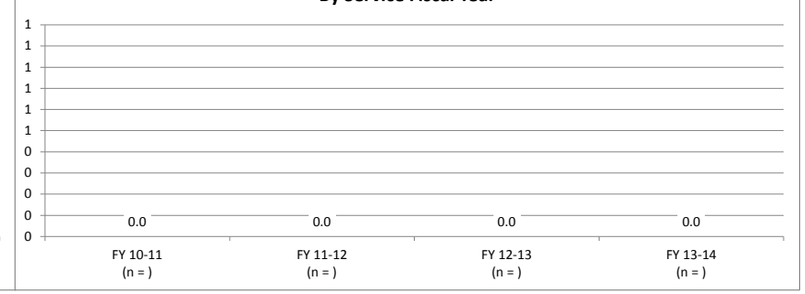
Medication Support Services Minutes Per Unique Beneficiary
By Service Fiscal Year



Crisis Intervention Minutes Per Unique Beneficiary
By Service Fiscal Year



Crisis Stabilization Hours Per Unique Beneficiary
By Service Fiscal Year



**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.*

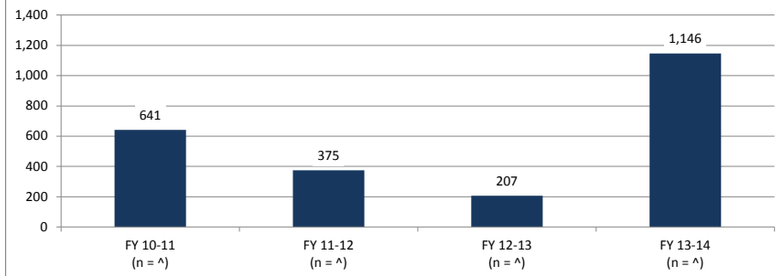
****This data will be available in June, 2016*

*****Tulare reports more data within the Psychiatric Health Facility Graph*

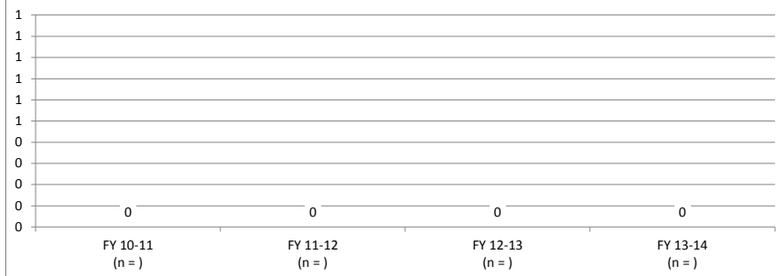
Utilization Report*: Approved Specialty Mental Health Services for Children and Youth
Mean Expenditures and Mean Service Quantity per Unique Beneficiary by Fiscal Year**

Tulare County as of July 29, 2015

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



Full Day Rehabilitation Hours Per Unique Beneficiary
By Service Fiscal Year



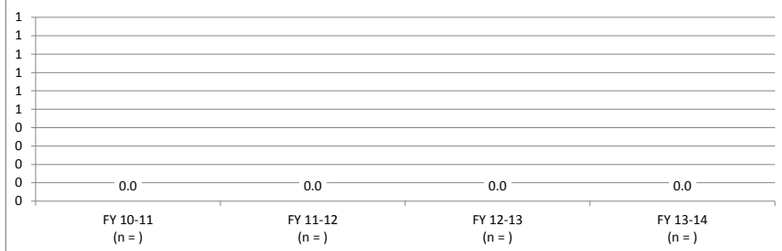
Hospital Inpatient Days Per Unique Beneficiary
By Service Fiscal Year

Data Available in June 2016

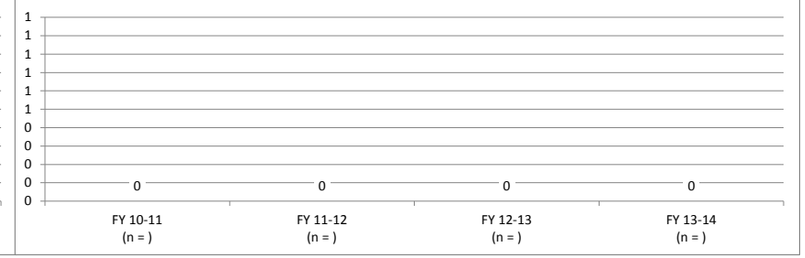
Hospital Inpatient Admin Days Per Unique Beneficiary
By Service Fiscal Year

Data Available in June 2016

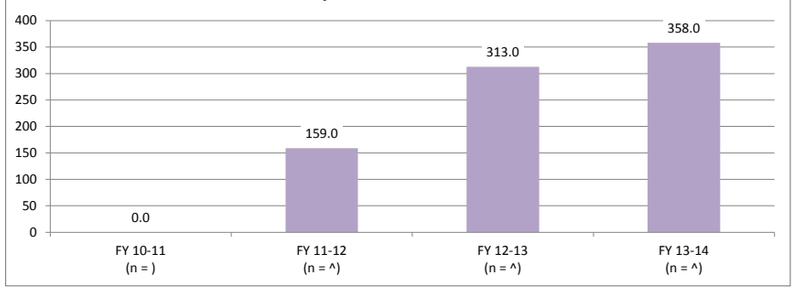
Crisis Residential Treatment Services Days Per Unique Beneficiary
By Service Fiscal Year



Adult Residential Treatment Services Days Per Unique Beneficiary
By Service Fiscal Year



Psychiatric Health Facility 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.*

****This data will be available in June, 2016*

*****Tulare reports more data within the Psychiatric Health Facility Graph*

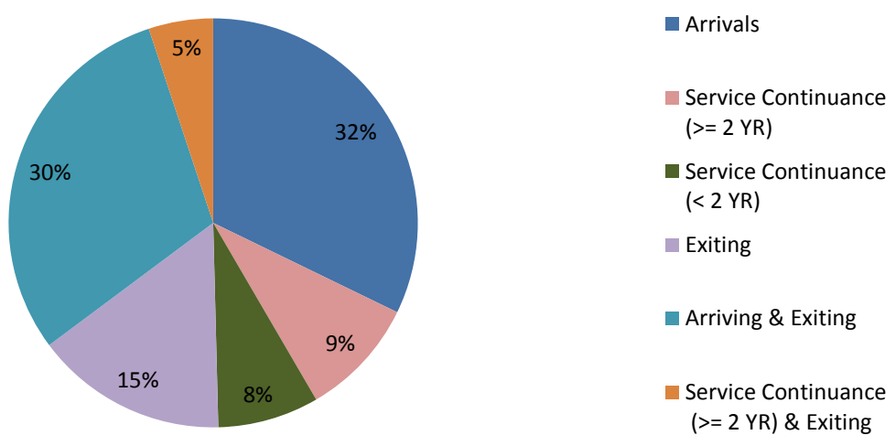
Snapshot Report: Unique Count of Children and Youth Receiving SMHS
Arriving, Exiting, and with Service Continuance by Fiscal Year

Tulare County as of August 3, 2015

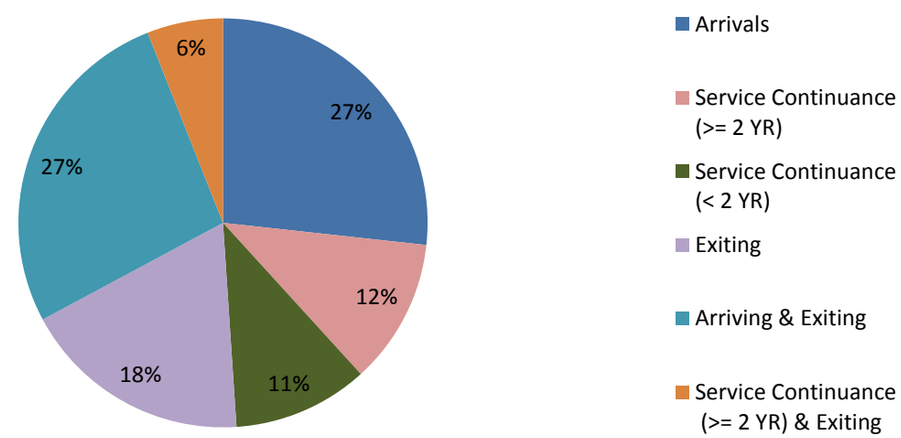
Category	Description (Please refer to the Measures Catalog for more detailed descriptions on all Performance Outcomes System measures.)
Arrivals	Children/Youth that did not receive any SMHS within 3 months of their first date of service in the Fiscal Year.
Service Continuance	Children/Youth receiving 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	1,738	32.2%	504	9.4%	429	8.0%	821	15.2%	1,622	30.1%	276	5.1%	5,390	100%
FY 13-14	1,551	26.7%	669	11.5%	618	10.7%	1,058	18.2%	1,555	26.8%	350	6.0%	5,801	100%

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



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

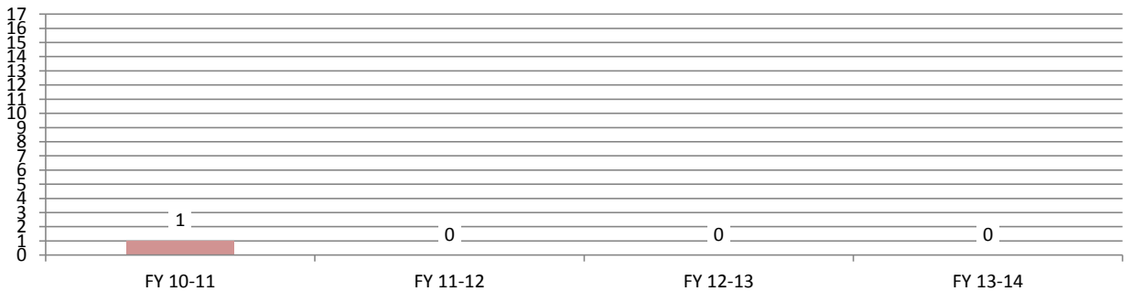


Time to Step Down Report: Children and Youth Stepping Down in SMHS Services Post Inpatient Discharge

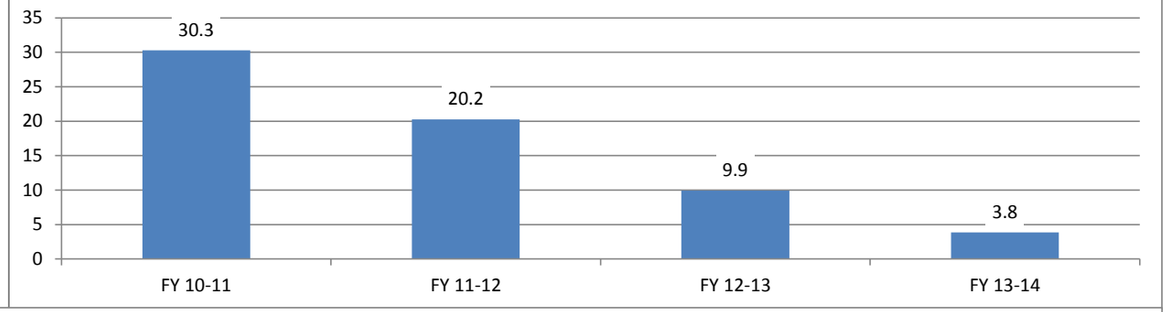
Tulare County as of July 28, 2015

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	65	70.7%	73	79.3%	^	^	^	^	0	715	30.3	1
FY 11-12	81	76.4%	91	85.8%	^	^	^	^	0	606	20.2	0
FY 12-13	109	88.6%	113	91.9%	^	^	^	^	0	325	9.9	0
FY 13-14	97	89.8%	98	90.7%	^	^	^	^	0	132	3.8	0

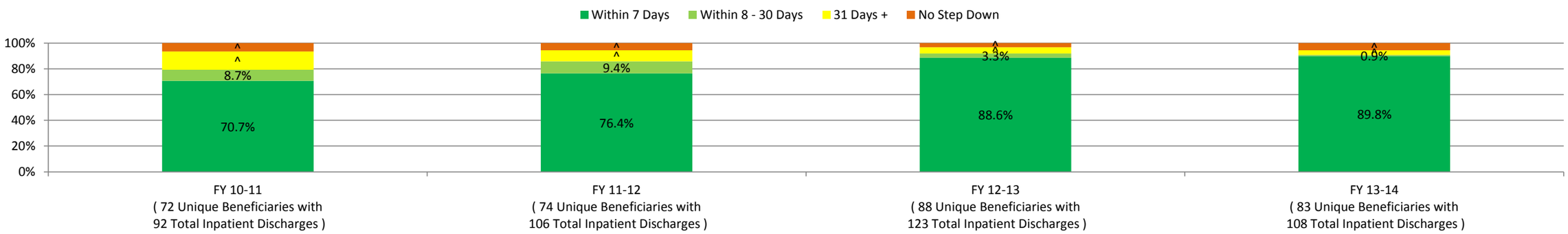
Median Time Between Inpatient Discharge and Step Down Service in Days



Mean Time Between Inpatient Discharge and Step Down Service in Days



Percentage of Discharges by Time Between Inpatient Discharge and Step Down Service



** **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.