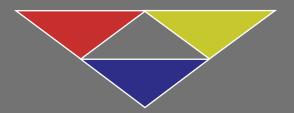
Missouri Department of Mental Health

Quarterly Performance Measures

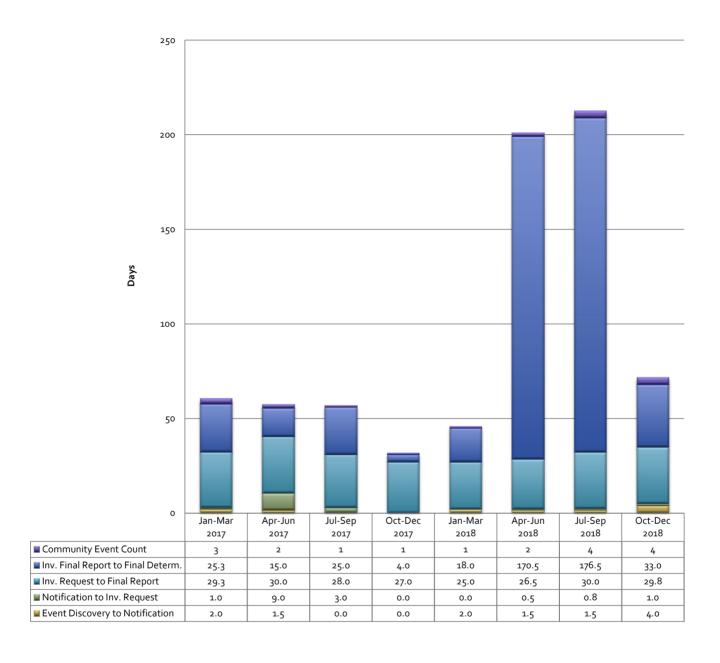


Division of Behavioral Health

Substance **Use** Services



Substance Use Treatment Community Investigations Timelines

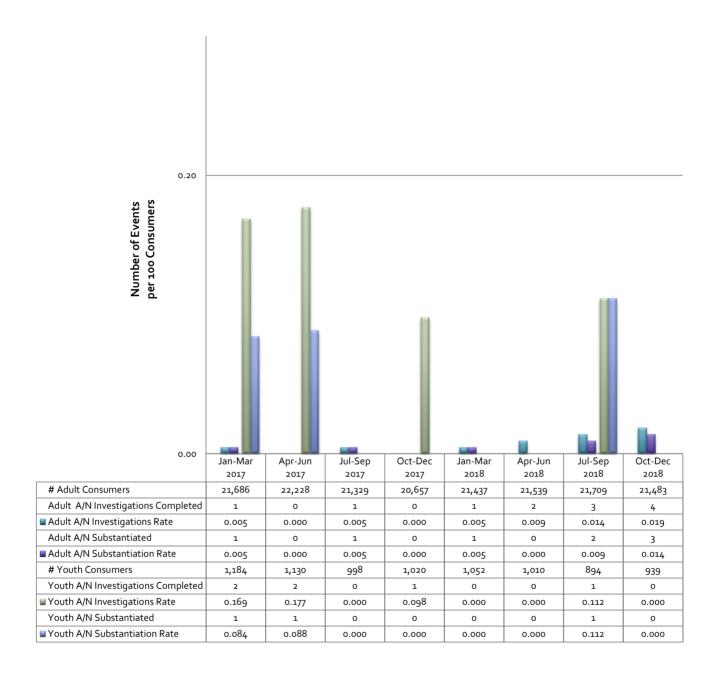


NOTE: Timelines are divided into 4 distinct sections or stages of an investigation. The bars include average times for all final determinations made in each quarter.

Significance: Community investigations for substance use treatment are relatively few.



Substance Use Treatment Abuse/Neglect Investigations

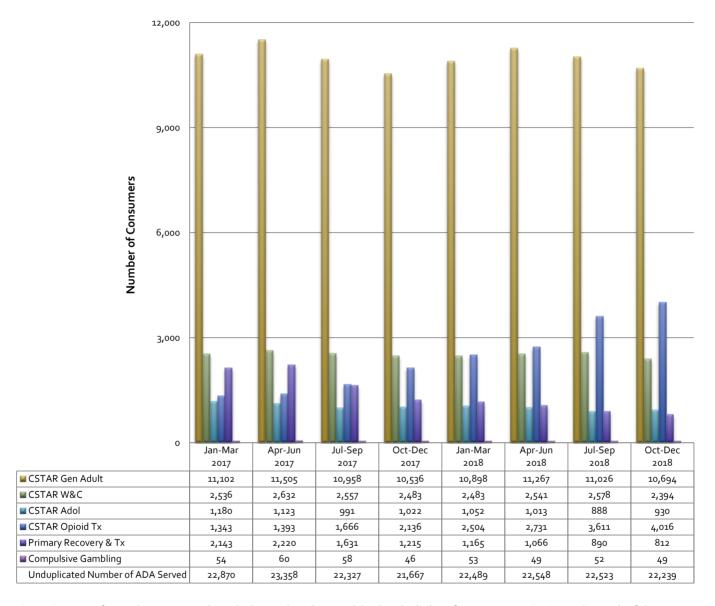


NOTE: Investigations and substantiations are a count of the number of investigations, not the number of alleged perpetrators or victims. Also, Investigation and substantiation counts reflect cases finalized in the quarter.

Significance: Substance use treatment has relatively few abuse/neglect investigations and substantiations each quarter.



Substance Use Treatment Consumers Served By Program



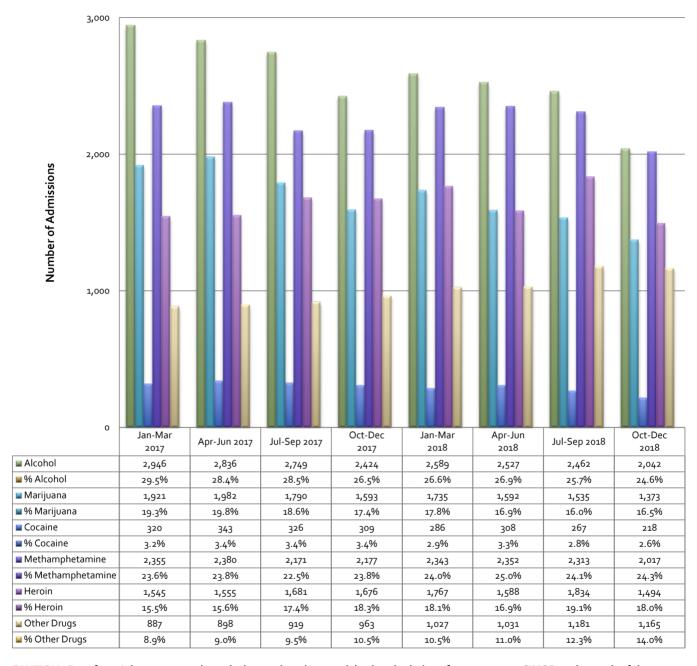
CAUTION: Data from July 2017 onward may be incomplete due to a delay in submission of encounters to CIMOR as the result of the CCBHC project.

NOTES: Consumers could be enrolled in more than one program during the quarter. For example, a consumer will generally be enrolled in both an Opioid Treatment program and a CSTAR or a Primary Recovery Program. Primary Recovery & Tx includes DOC specialty programs Free and Clean Plus and Partnership for Community Restoration, the Medication Assisted Treatment Grant, and the Opioid State Targeted Response Grant.

Significance: The majority of consumers receiving treatment services are in a CSTAR program.



Drug of Choice at Admission to Substance Use Treatment

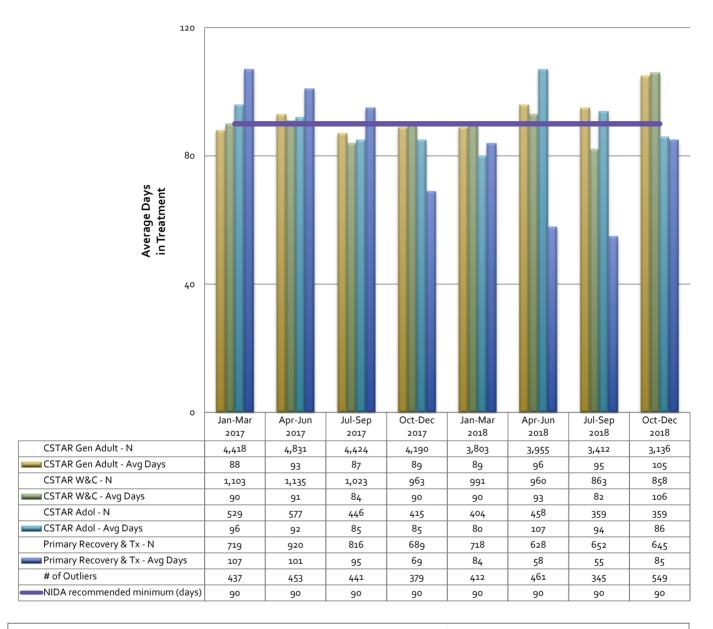


CAUTION: Data from July 2017 onward may be incomplete due to a delay in submission of encounters to CIMOR as the result of the CCBHC project.

Significance: Illicit drug admissions account for about 69 - 73% of all admissions to substance use treatment.



Retention In Substance Use Treatment



NOTE: Average days in treatment include both residential and outpatient services. Length of stay was calculated using the program admission date and the last date of billable service. Outliers greater than two standard deviations above the mean or less than or equal to 1 day were not included when calculating the average length of stay. Single day events are also excluded. Excludes detox.

NIDA's Principles of Drug Addiction Treatment states: "The appropriate duration for an individual depends on the type and degree of his or her problem and needs. Research indicates that most addicted individuals need at least three months in treatment to significantly reduce or stop their drug use and that the best outcomes occur with longer durations of treatment."

Significance: Average length of stay in substance use treatment is around 3 months.



Adult Substance Use Treatment Admissions With Prior Substance Use Treatment Episodes in Past 36 Months

NOTE: One study found that the median time from first treatment to 1 alcohol-and drug-free year was 9 years with 3 to 4 episodes of treatment.1 ¹Dennis, M.L. et al, 2005. The duration and correlates of addiction and treatment careers. Journal of Substance Abuse Treatment 28 (Suppl.1):S51-S62

o Prior Tx Episodes

1 Prior Tx Episode

■ 1 Prior Tx Episode Pct

2 Prior Tx Episodes

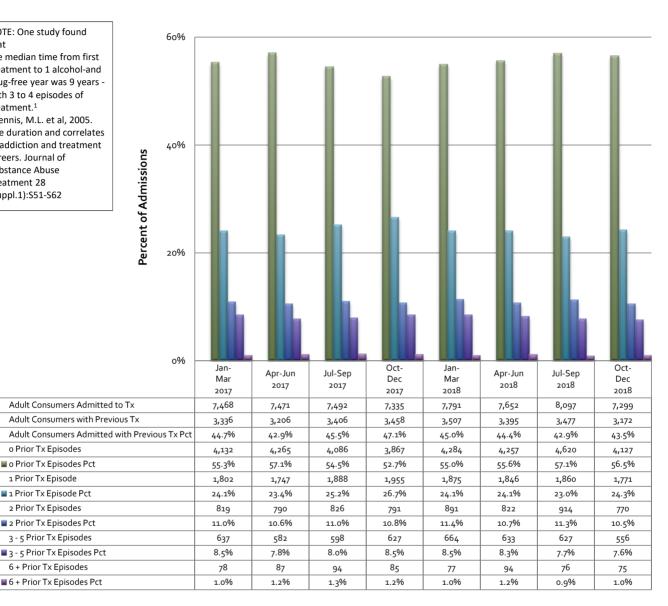
■ 2 Prior Tx Episodes Pct

3 - 5 Prior Tx Episodes

6 + Prior Tx Episodes

■ 6 + Prior Tx Episodes Pct

■ o Prior Tx Episodes Pct

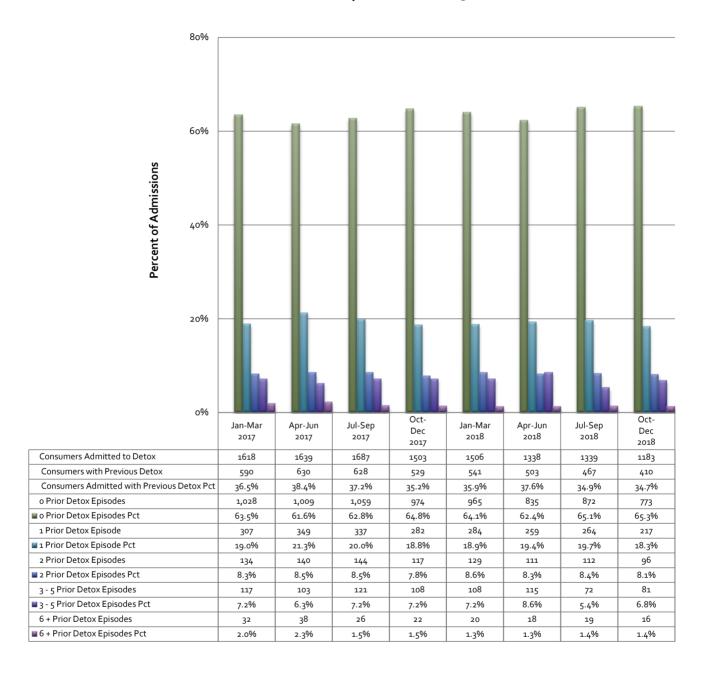


NOTE: The above data includes only treatment programs within 36 months of consumers' last admission within the quarter. Detox, SATOP, Recovery Support and Compulsive Gambling episodes of care were not included.

Significance: Half of admissions are for consumers who have not been enrolled in a treatment episode of care within the past 36 months. Approximately 10% of consumers admitted to a treatment episode of care have had 3 or more prior treatment episodes of care within



Adult Detox Admissions With Prior Detox Episodes in Past 36 Months

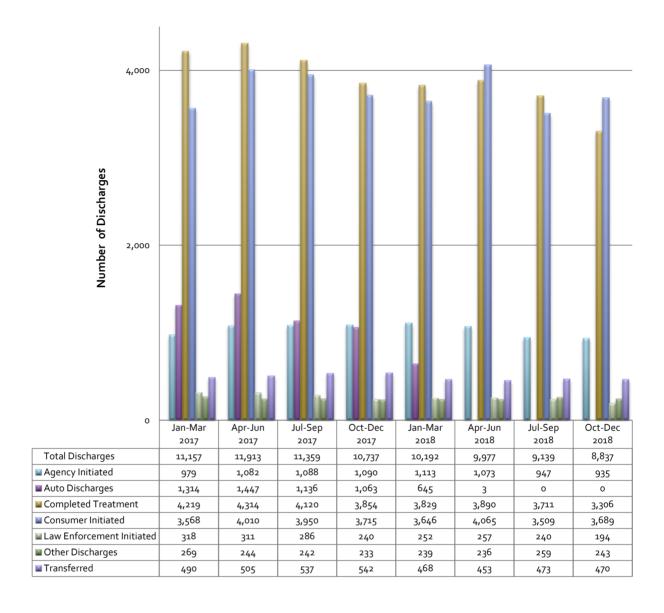


NOTE: The above data includes only detox programs within 36 months of consumers' last admission within the quarter. Significance:

More than one-half of detox admissions (61-65%) are for consumers who have not been in detox within the past 36



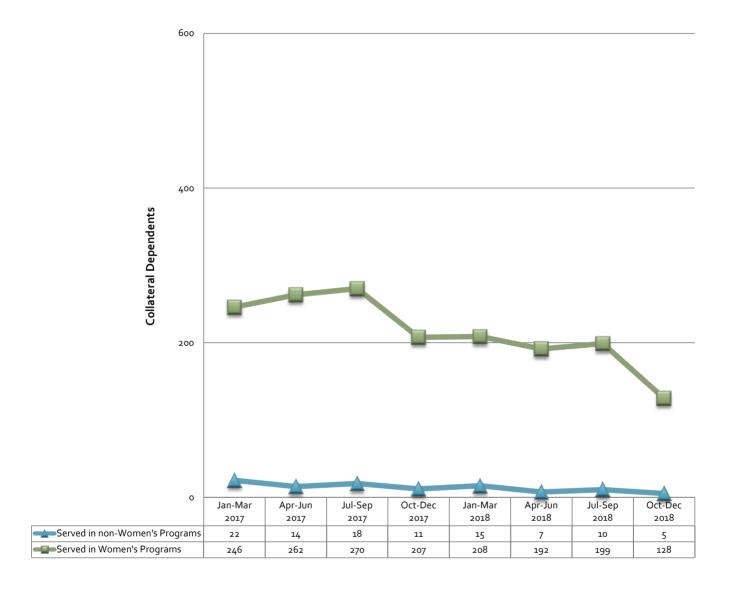
Substance Use Treatment Discharges



NOTE: Other discharges category includes the following discharge reasons: consumer died; consumer moved away; medical reasons. On July 25, 2008 the monthly Auto Discharge program was implemented and closed all episodes of care that had no service or billing activity within the past six months. The episode of care was closed and the discharge date was set to the last date of billable service. This will cause an increase in the number of Auto Discharges in previous quarters. The number of auto discharges in the two most recent quarters are not comparable to that of prior quarters because insufficient time as lapsed for the case to be considered inactive. Recovery support only episodes are excluded.



Collateral Dependents Served



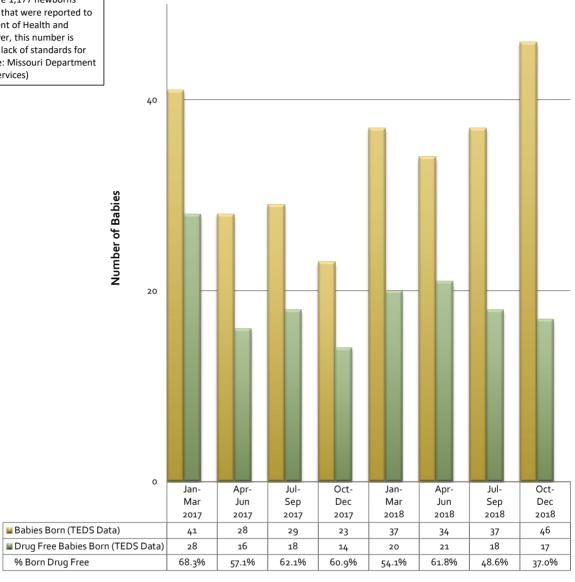
NOTE: A collateral dependent has no substance use disorder but is seeking services because of problems arising from his or her relationship with an individual who has a substance use disorder and is engaged in treatment.

Significance: The majority of collateral dependents are served in the CSTAR Women and Children's Programs. The number will vary each quarter due to several factors including number of consumers in treatment and number of consumers with children and/or a significant other.



Babies Born Drug Free

During 2015, there were 1,177 newborns affected by illicit drugs that were reported to the Missouri Department of Health and Senior Services. However, this number is under-reported due to lack of standards for reporting. (Data Source: Missouri Department of Health and Senior Services)



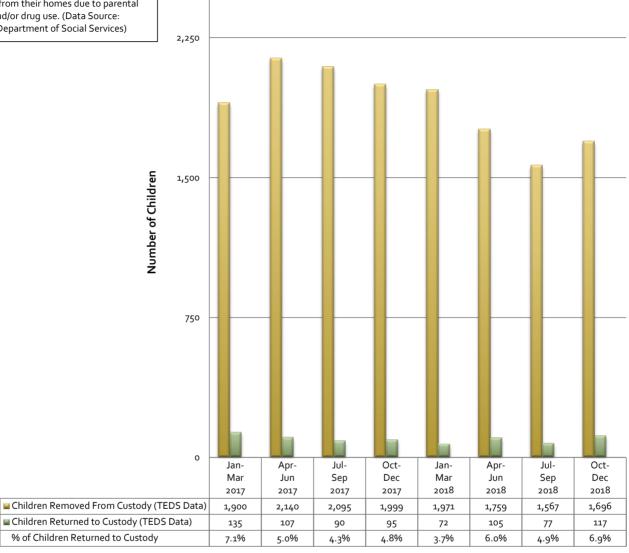
NOTE: In May 2010, TEDS data collection pages in CIMOR were upgraded to collect the number of babies born drug free during treatment for all female consumers in treatment and is collected when the program is closed. Due to this change, the data from previous reports are not comparable.

Significance: The number will vary due to several factors including number of pregnant women enrolled that had a baby during



Children Returned to Custody

During 2016, there were 3,216 children removed from their homes due to parental alcohol and/or drug use. (Data Source: Missouri Department of Social Services)



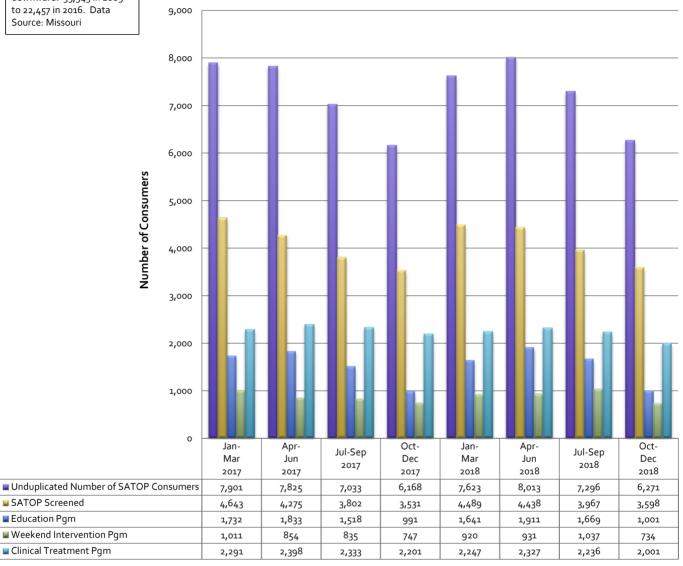
NOTE: In May 2010, TEDS data collection pages in CIMOR were upgraded to collect the number of children returned to custody for all consumers in treatment and is collected when the program is closed.

Significance: The chart shows the number of children returned to the parent/guardian while in any treatment program. The number will vary each quarter due to several factors such as, number of consumers who have had a substance use program closed within the quarter who have had children removed from custody and the number of children in the family.



Substance Awareness Traffic Offenders Program (SATOP) Consumers Served

The annual number of DWI arrests have been trending downward: 35,543 in 2009 to 22,457 in 2016. Data

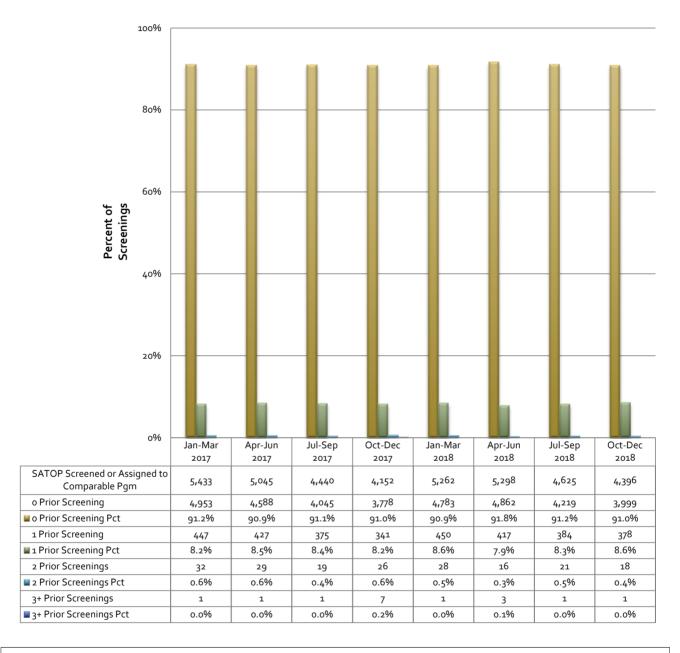


NOTES: The number screened will not equal the sum of the programs due to consumers having up to 6 months to enroll in the assigned program. Consumers may also decide to complete a comparable program that is more intensive than the one recommended by the screening. Clinical treatment programs include Clinical Intervention Program, Youth Clinical Intervention Program, and the Serious & Repeat Offender Program.

Significance: The data show a trend of increased screenings in the Jan-Mar quarter which is due in part to the increased number of DWIs cited over the holidays. DWI arrests have declined since 2009 (see note).



Substance Awareness Traffic Offenders Program (SATOP) Consumers Screened - Range of Previous SATOP Screenings Within Past 5 Years

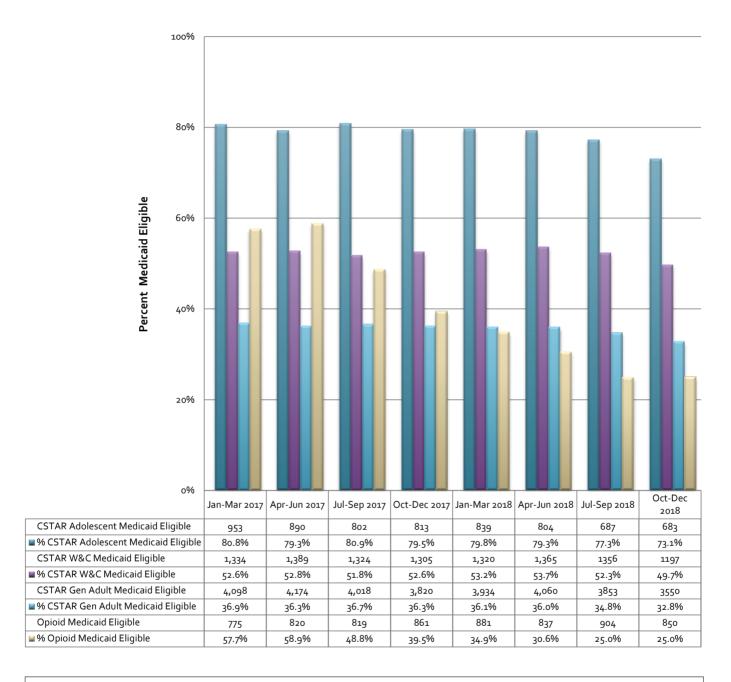


NOTE: All data reflects number of previous screenings within the past 5 years of consumers' last SATOP screening within the reported quarter.

Significance: The majority of consumers who receive a SATOP screening have never had a SATOP screening. The majority of the consumers with at least 1 prior SATOP screening have had only 1 prior screening.



Medicaid Eligibility for Individuals Served in CSTAR Programs

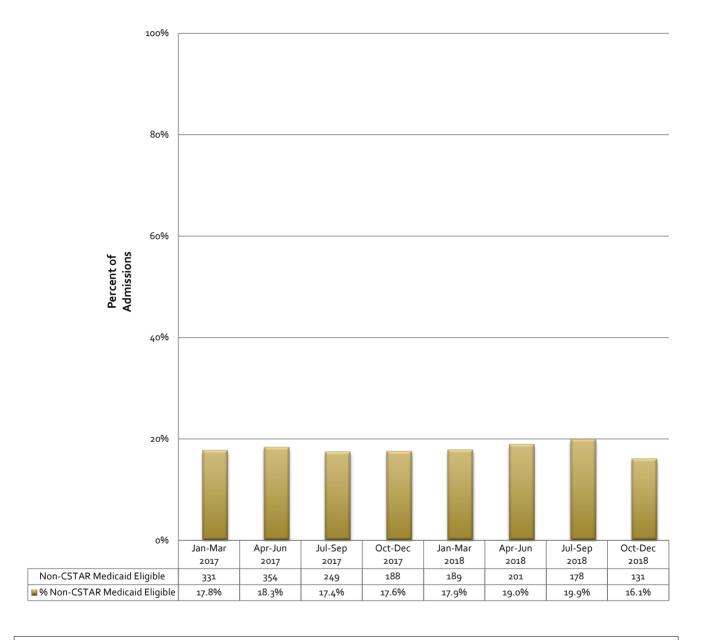


NOTE: CSTAR Detox is excluded.

Significance: Medicaid-eligible consumers comprise between 35 - 80% of the CSTAR consumer populations. The proportion is higher in the Adolescent program and lower in the General Adult program.



Medicaid Eligibility for Individuals Served in Non-CSTAR Substance Use Programs

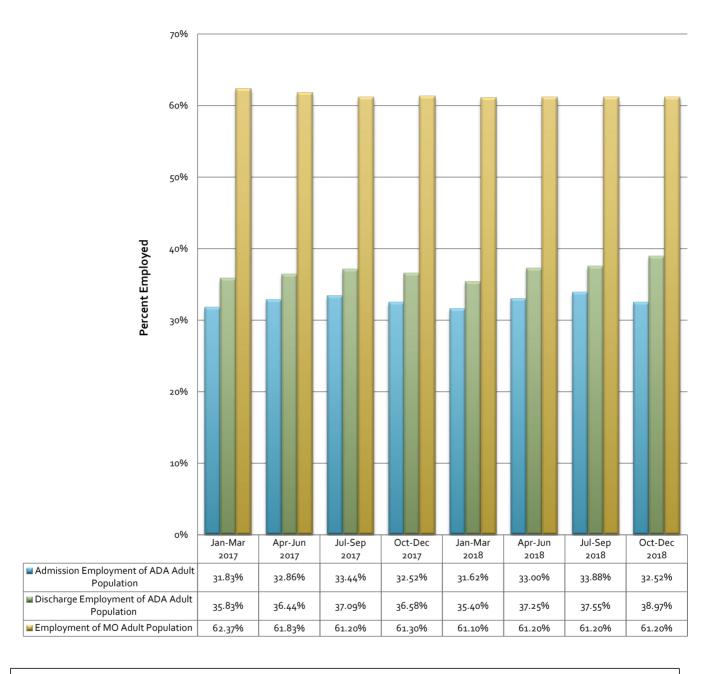


NOTE: Non-CSTAR programs include Primary Recovery Plus, Enhanced Primary Recovery Plus, Corrections Primary Recovery Plus, DOC Free & Clean Plus, DOC Partnership for Community Restoration, Clinical Intervention Program (Adult and Youth), Serious & Repeat Offender Program and General Treatment.

Significance: The number of consumers served in non-CSTAR programs has declined in recent years. Since April 2009, 24 Primary Recovery Plus contracts have been converted to CSTAR to allow for Medicaid reimbursement.



Employment of Adult Population in Substance Use Treatment

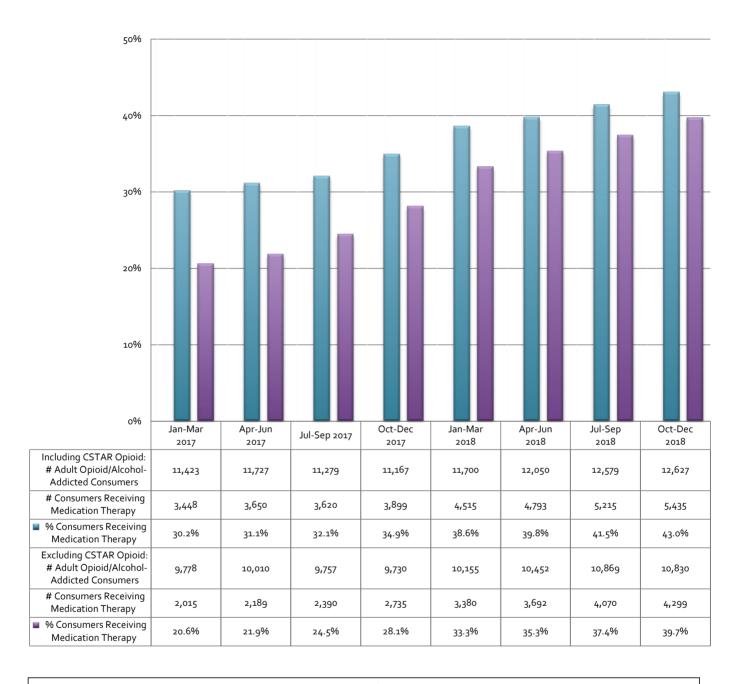


Note: Adolescent programs, detox, and codependents are excluded from the employment calculations.

Significance: Employment of the adult substance use treatment population measures engagement in work and accounts for those not actively seeking work - unlike the "Employment Rate" which is based only on the labor force. The measure is compared against the employment of the civilian noninstitutional population (age 16-64) in Missouri (data source: U.S. Bureau of Labor Statistics). Employment has a powerful therapeutic impact for individuals in recovery and is to be included in the treatment and recovery plan.



Consumers Receiving Medication Therapy

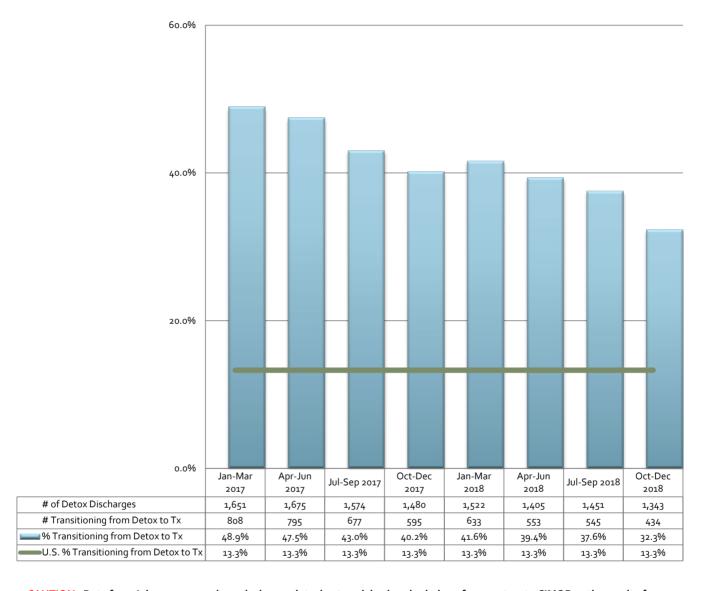


Note: Detox and SATOP treatment programs are excluded. Medications for addiction treatment include Vivitrol, acamprosate, buprenorphine, naltrexone, and Suboxone. Medicaid claims for direct billing from pharmacies for substance use treatment consumers are included. CIMOR only started tracking type of medication in January 2010.

Significance: Medication therapy in combination with psychosocial counseling to support treatment and recovery from substance use disorders is a National Quality Forum recommendation.



Transition from Detox to Treatment



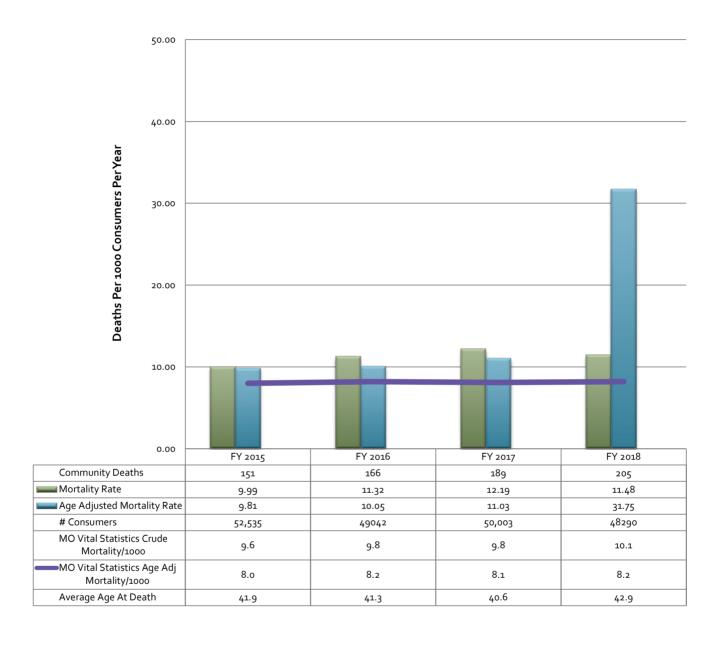
CAUTION: Data from July 2017 onward may be incomplete due to a delay in submission of encounters to CIMOR as the result of the CCBHC project.

Notes: A transition is recorded if any treatment service is provided within 5 days of the last day of detox. U.S. data for transition from the Treatment Episode Dataset - Discharges, 2013 (SAMHSA, 2016).

Significance: "Detox alone with no follow-up is not treatment" (NIDA). Transitioning from detox to treatment is key to reducing recidivism and ending the "revolving door" phenomenon.



Substance Use Treatment Consumer Mortality Rates



NOTE: Chart includes all substance use treatment consumers (residential and community primary consumers, compulsive gambling, collateral dependents, SATOP – except educational programs and screenings).

NOTE: The increase in the FY 2018 Age Adjusted Mortality Rate is the result of the death of the only consumer served in the 85+ age category. This consumer had been continuously served in a Methadone Clinic for 19 years.

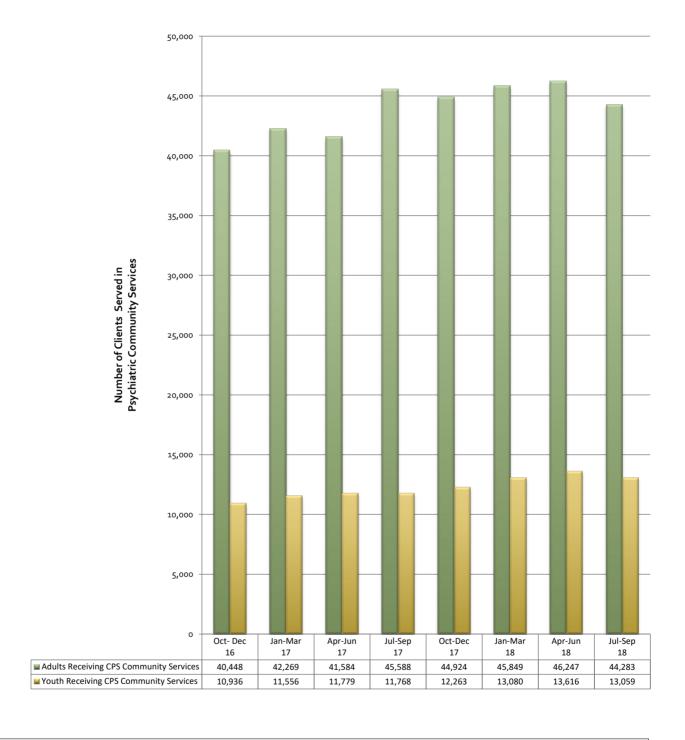
Significance: Substance use treatment consumers have a crude mortality rate that is comparable to Missouri community mortality rate of 10.1 deaths per 1000 Missouri residents (Missouri Department of Health and Senior Services, Bureau of Vital Statistics, 2014). Age-adjusted rate, however, tends to be higher for substance use treatment consumers presumably due to their substance use. Average age of consumers served is

Division of Behavioral Health

Comprehensive Psychiatric Services



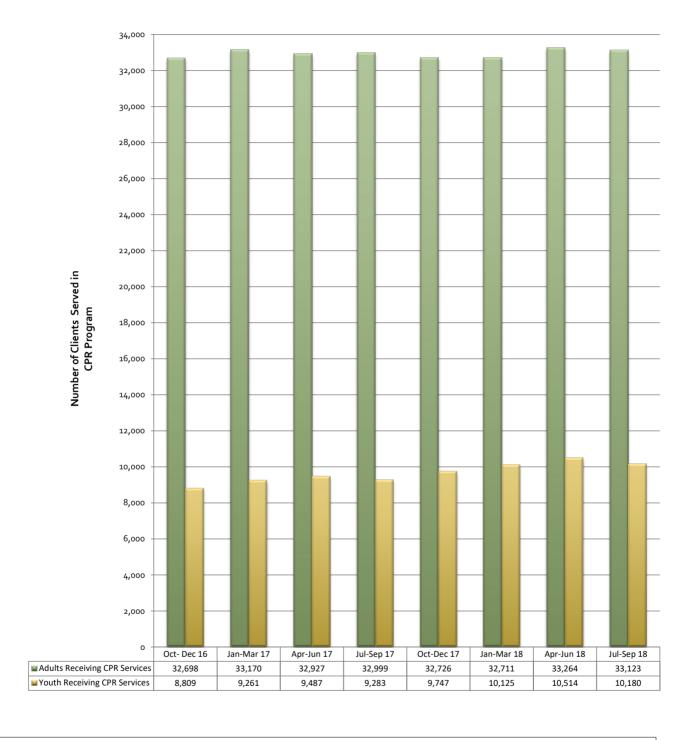
Clients Receiving Psychiatric Community Services



SIGNIFICANCE: Note that the most recent quarter will always be undercounted due to lagging claims and therefore is not displayed. Numbers for 2 quarters back are displayed but subject to slight upward revision as lagging claims come in. The long term trend (over many years) has been one of slowly increasing numbers of Psych. Services community clients. This trend appears to have slowed but not quite halted. Note that this and subsequent graphs do not count clients treated "pro bono" by CMHCs, as those clients do not appear in our claims data or in CIMOR.



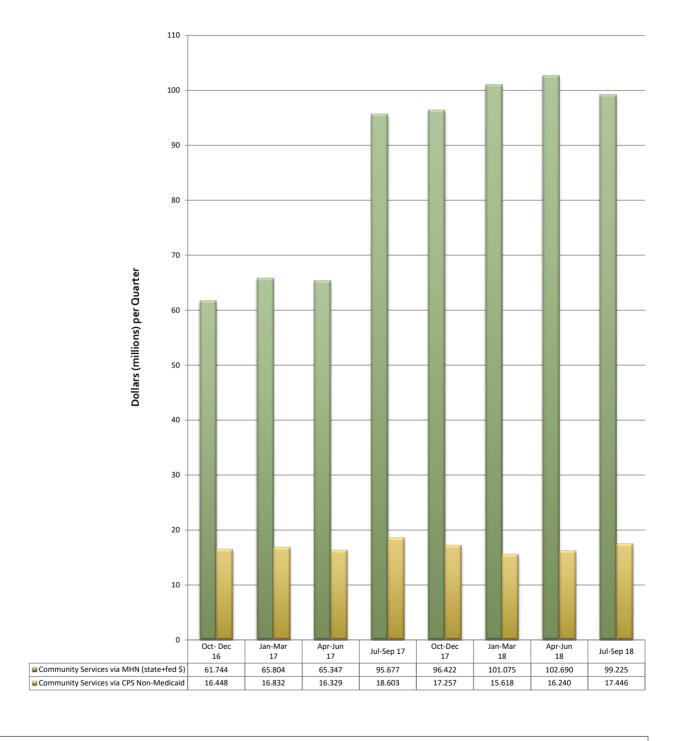
Clients in the Community Psychiatric Rehabilitation Program



SIGNIFICANCE: The most recent quarter will always be undercounted due to lagging claims and therefore is not displayed. Adult and Youth CPR enrollment has somewhat stabilized after several years of steady growth, but Youth CPR was showing very gradual increases in the previous four quarters.



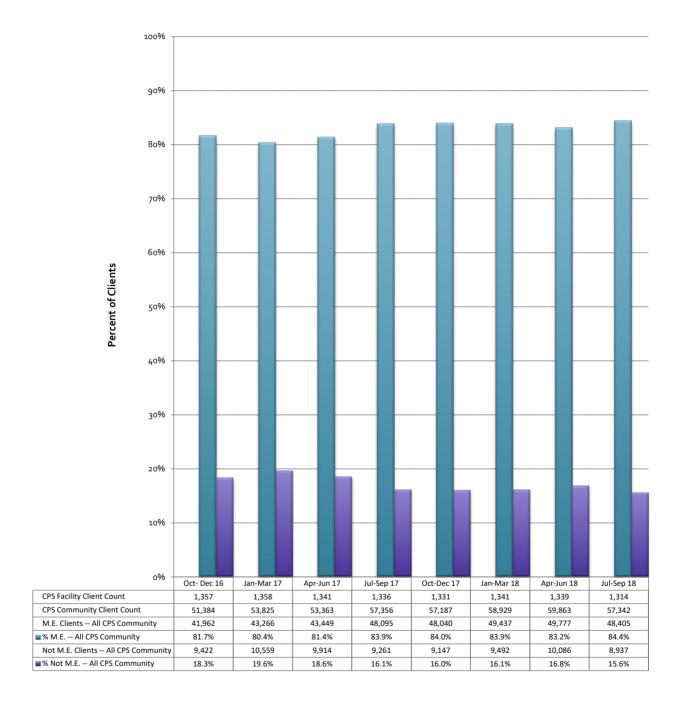
Funding Sources for Psychiatric Services Community Clients



SIGNIFICANCE: The most recent quarter will always be undercounted due to lagging claims and therefore is not displayed. POS spending in the last quarter of the FY is routinely the peak of Non-Medicaid spending for the year and so this should not be interpreted as a trend so much as part of the annual billing cycle. The most recent reported quarters include some DSS clinic option funding for CCBHC.



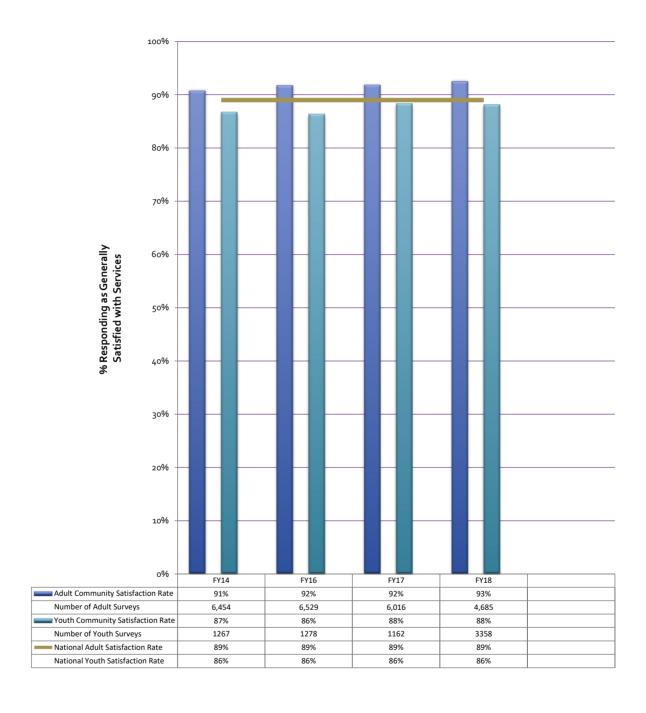
Medicaid Eligibility of Psychiatric Services Community Clients



SIGNIFICANCE: The most recent quarter will always be undercounted due to lagging claims and is therefore not displayed. The proportion of Psych. Services community clients with Medicaid Eligibility appears to have stabilized in the low 80% range over the past two years.



Community Client General Satisfaction with Services

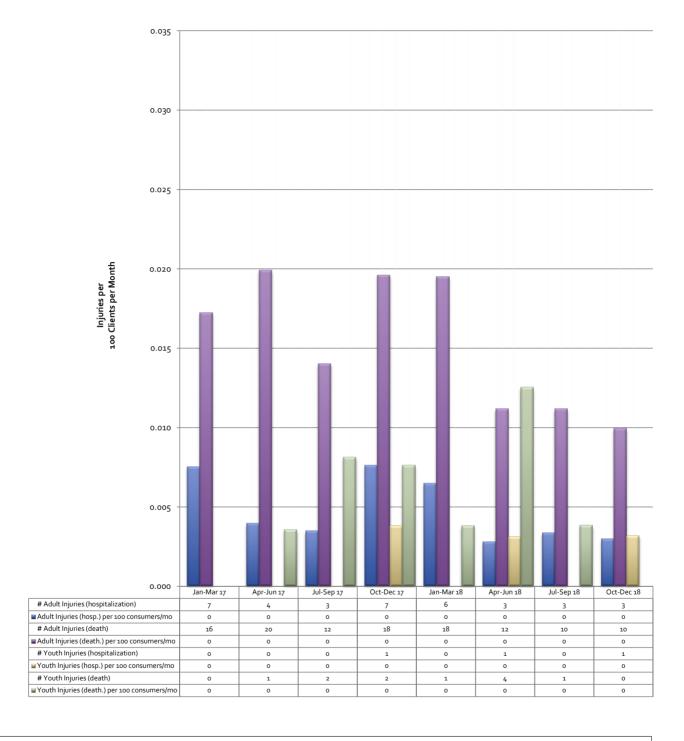


NOTE: Taken from the Adult and Youth Satisfaction Surveys using national standard MHSIP questions. For FY18, these became annual surveys due to CCBHC reporting requirements.

SIGNIFICANCE: Both adult clients and the families of youth in community psych. services report high rates of satisfaction with the services they receive in the community. These rates compare favorably to other satisfaction rates collected by state MH agencies around the country.



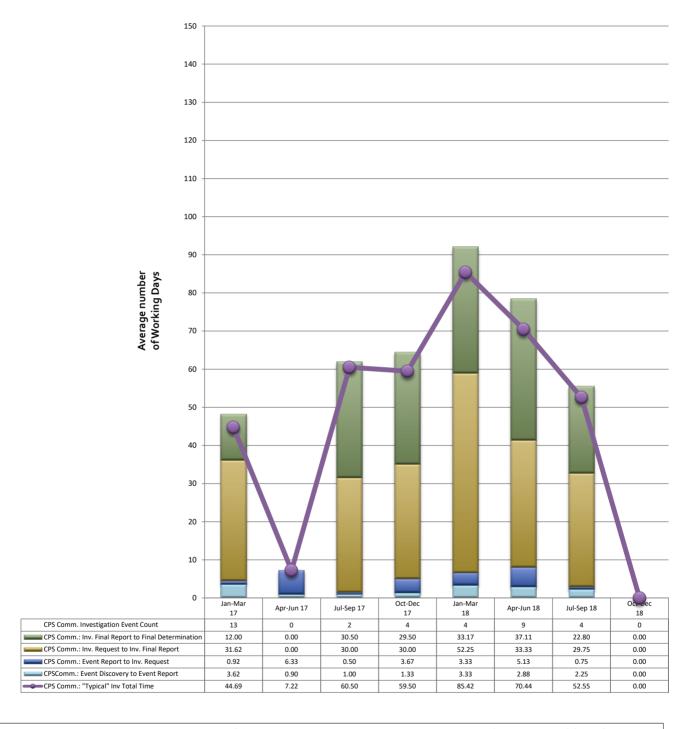
Community Client Injuries



SIGNIFICANCE: There is a very low rate of serious injury to clients receiving community services, but these are individually significant events. The 10 adult injuries that resulted in deaths reported in the October-December '18 quarter are further categorized as: 3 suicides, 4 car accidents, 2 homicides, and 1 choking on food accident. All the events had a death determination performed by service provider with no indications of need for abuse/neglect investigation.



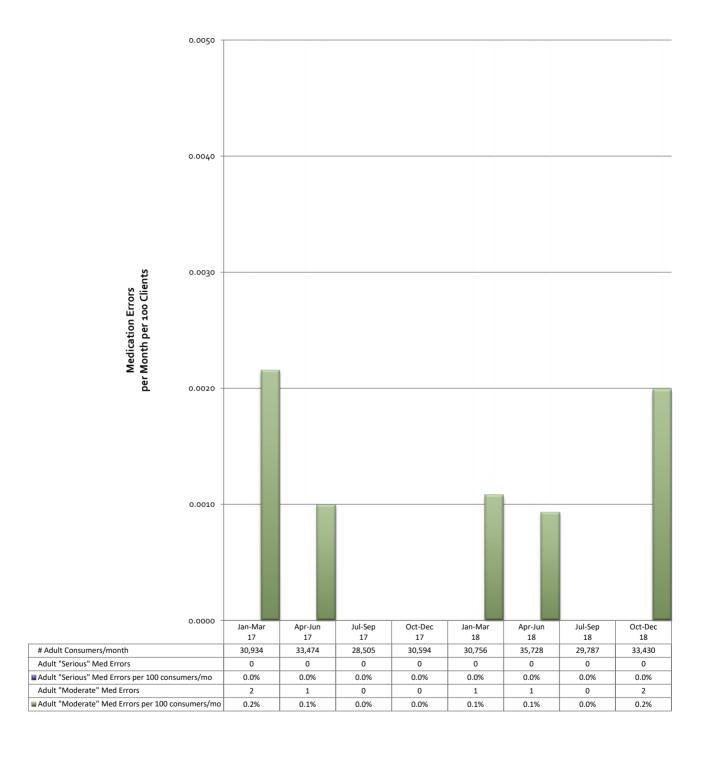
Duration of Investigation Process for Community Servcies



NOTE: Timelines are divided into 4 distinct stages of the investigation -- the bars show the average duration (in working days) for all final determinations made in each quarter, whereas the line superimposes the overall average duration of typical cases as defined by the 90% probability distribution of the times for each stage of the investigation. This shows both SCL and CMHC cases. The October-December '16 quarter reflects one event where investigation took much longer than usual (over 300 days) due to waiting on DNA results.



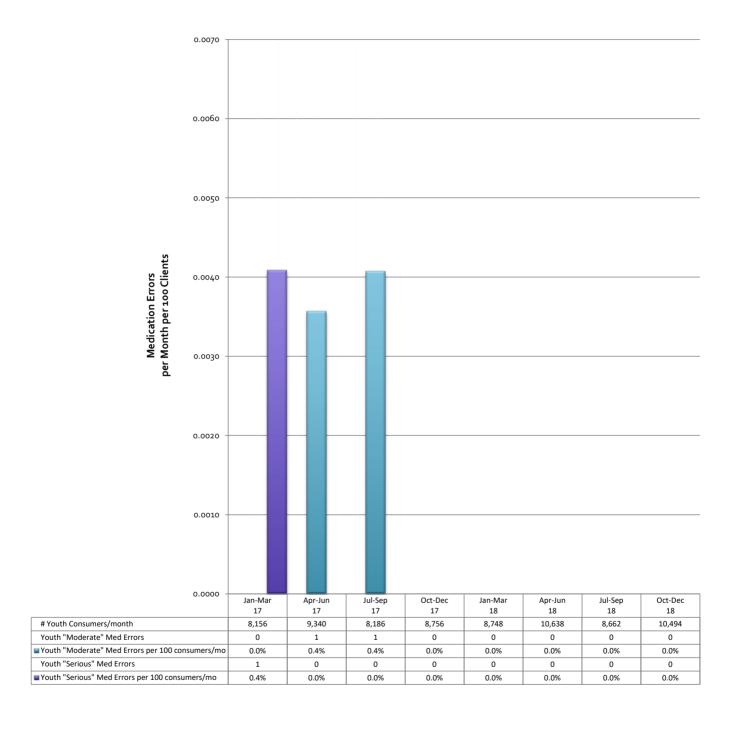
Adult Community Medication Errors



NOTE: "Moderate" medication errors are those resulting in the need for treatment and/or interventions beyond monitoring and observation. "Serious" medication errors are those with life threatening and/or permanent adverse consequences.



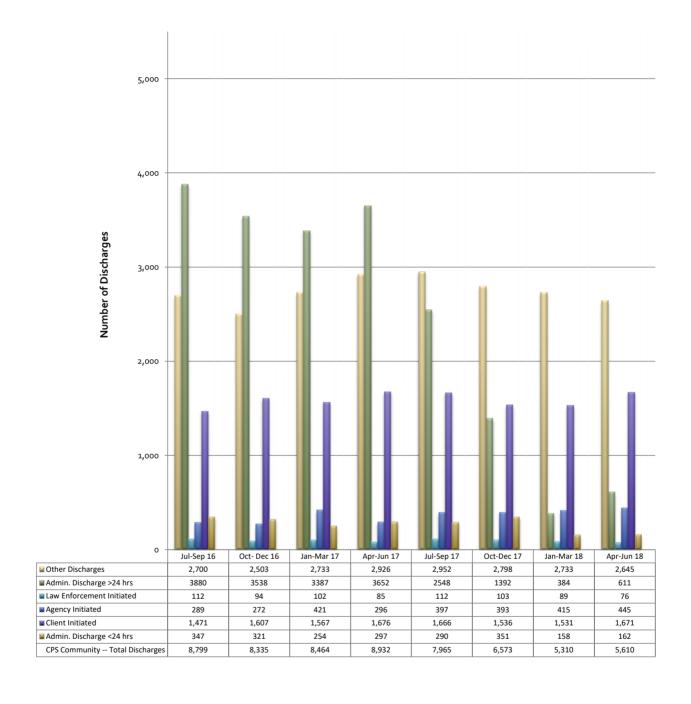
Youth Community Medication Errors



NOTE: "Moderate" medication errors are those resulting in the need for treatment and/or interventions beyond monitoring and observation. "Serious" medication errors are those with life threatening and/or permanent adverse consequences.



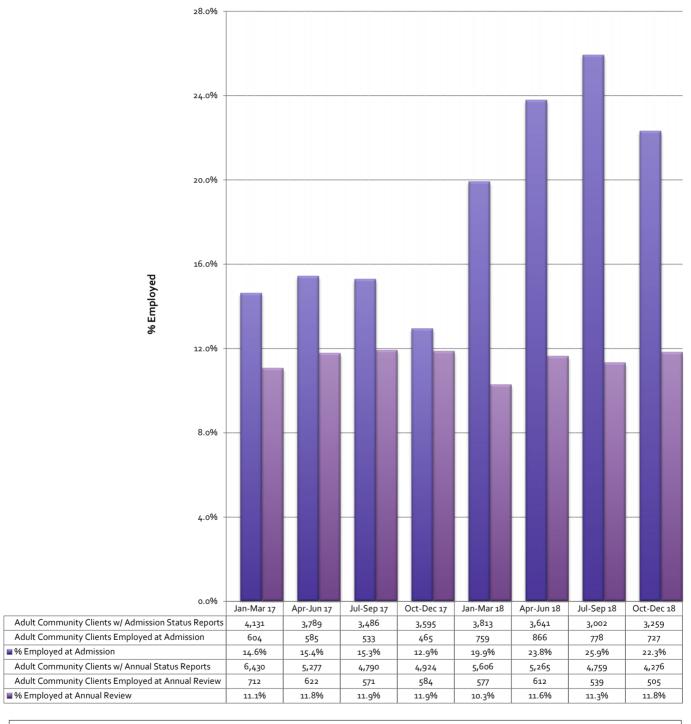
Community Psychiatric Service Discharges



NOTE: Due to complications resulting from the auto-discharge process in CIMOR, this data will always lag by 2 full quarters. Law enforcement initiated = incarcerated with or without satisfactory treatment progress; Agency initiated includes consumer would not comply plus treatment viewed as ineffective by therapist; Client initiated includes AMA, consumer dropped out, and treatment viewed as ineffective by consumer.; Admin. Discharge is system discharged due to inactivity for 6 months . Administrative Discharge < 24 hrs are clients who either did not receive services beyond intitial screening or were transfered into non Behavioral Health sponsored services after initial screening.



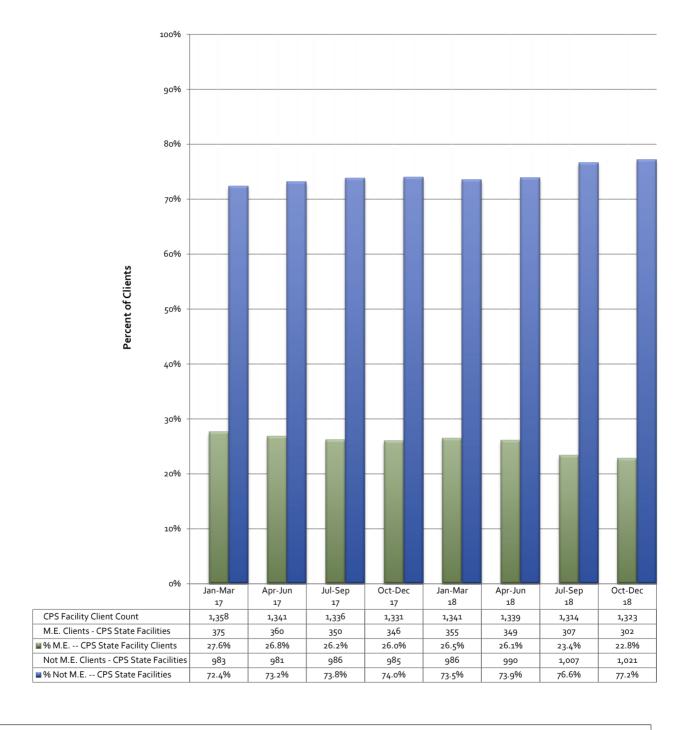
Community Adults -- Employment



NOTE: This data is taken from the "CPS Status Report" and is thus an estimate taken from a large sample of clients each quarter. This graph shows consistently lower employment rates at annual re-assessment, probably due to recovering clients being more likely to become employed but also less likely to remain in services for the annual reassessment.



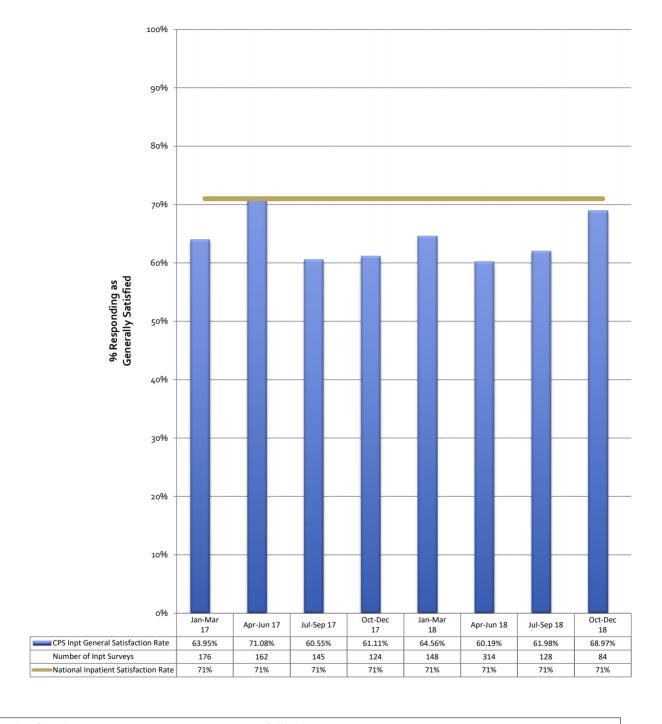
Medicaid Eligibility of Psychiatric Facility Clients



SIGNIFICANCE: The medicaid Eligibility rate for state facility clients dropped with the transfer of acute bed capacity to private hospitals. Once discharged however, the proportion of facility clients who then become Medicaid eligible increases to around the 80% rate of other community services clients.



Inpatient Satisfaction

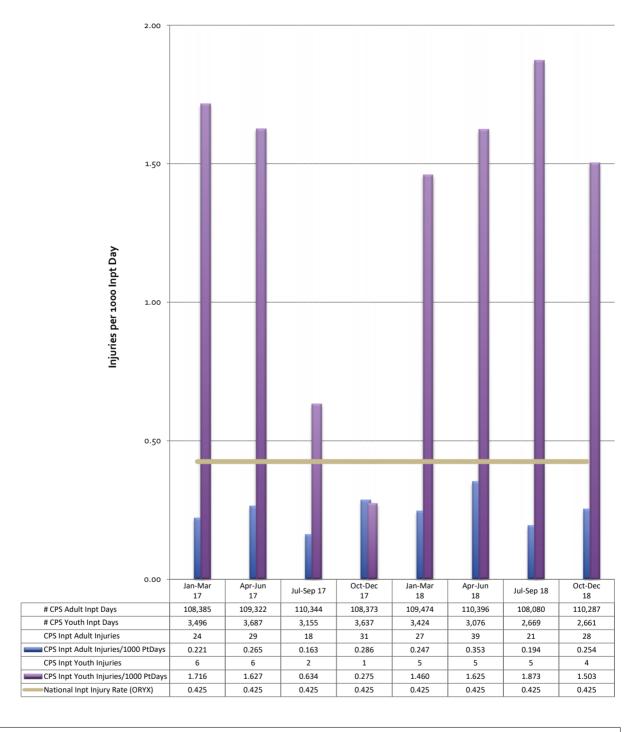


NOTE: Taken from the CPS Inpatient MHSIP survey -- average of all 5 domains.

SIGNIFICANCE: No overall trend but the general inpatient satisfaction rate compares well to similar client populations in other states using the same standardized survey instrument.



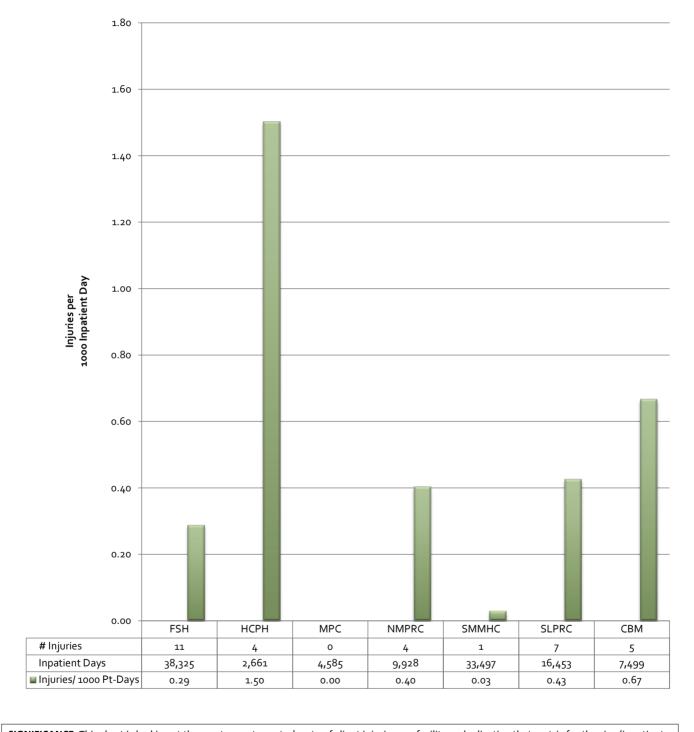
Inpatient Client Injuries



NOTE: "Injuries" for Inpatient clients include those medical intervention or more. PtDays is a standard way to adjust for facility size on inpatient metrics for measures that apply to both acute and long term facilities - if we were to simply count clients this would result in disproportionately high client counts in acute facilities due to relatively rapid turnover and short length of stays. Also, using this definition allows us to benchmark to the NRI/ORYX rate of 0.425 injuries per 1000 patient days.



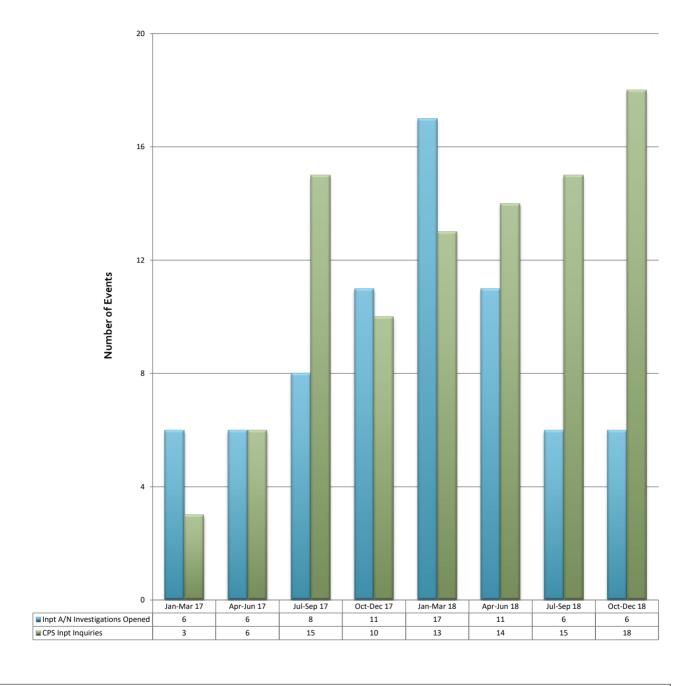
Inpatient Client Injuries by Facility



SIGNIFICANCE: This chart is looking at the most recent quarter's rate of client injuries per facility and adjusting that metric for the size (inpatient days) of the facility. Second quarter of FY19 shows a higher injury rate for Hawthorn Children's Psychiatric Hospital. Perhaps contrary to expectations, the rate of injuries is often low at our highest security facility. In order the facilities are: Fulton, Hawthorn, St Louis MPC, Northwest, Southeast, St Louis Psych, Center for Behavioral Medicine.



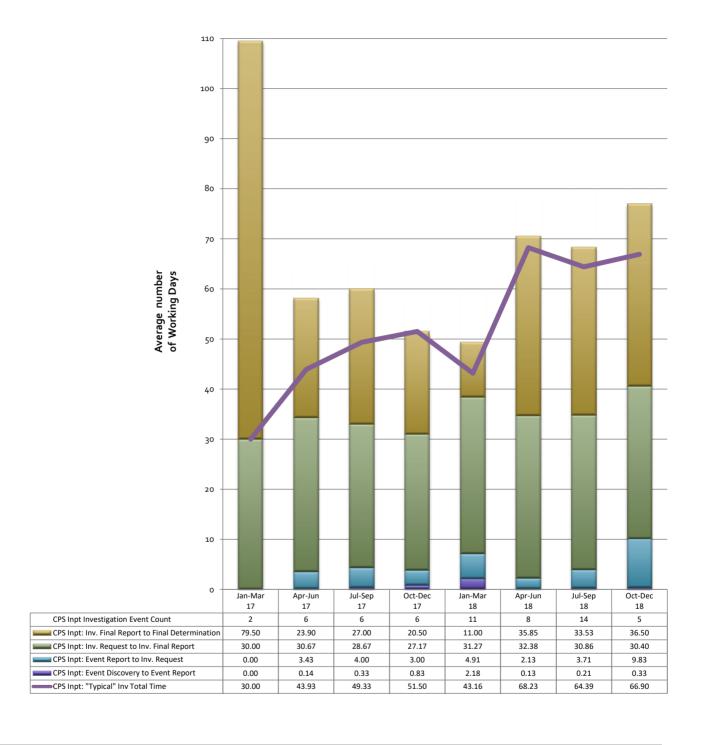
Inpatient Inquiries into Potential Abuse/Neglect Allegations



NOTE: If an event initially had an inquiry but then an A/N investigation, it is counted only as an investigation to ensure an unduplicated count of cases under review. Also note that a "decision" to open an investigation is only the start of the investigation process -- when a final judgment is made regarding an allegation that is called a "determination" and the investigation is completed.



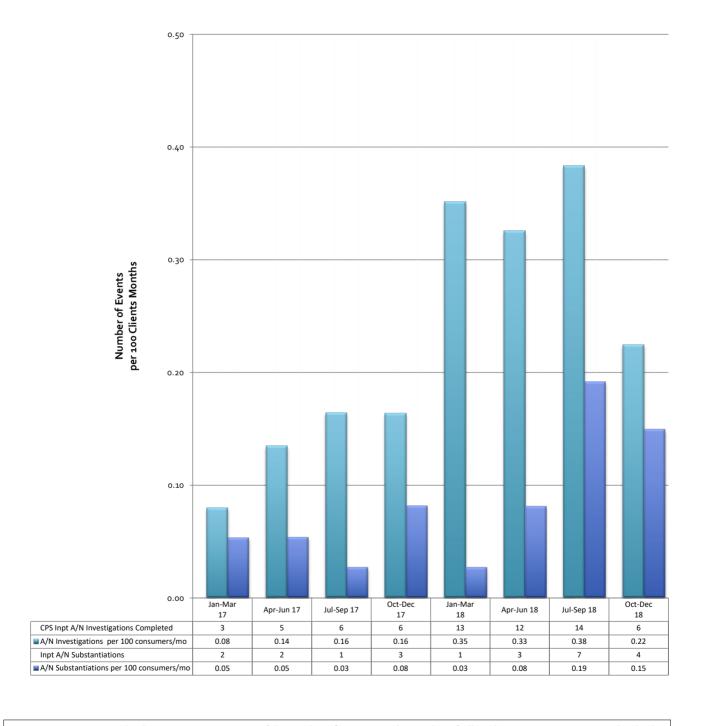
Duration of Investigation Process for Inpatient Facilities



NOTE: Timelines are divided into 4 distinct stages of the investigation -- the bars show the average duration (in working days) for all final determinations made in each quarter, whereas the line superimposes the overall average duration of typical cases as defined by the 90% probability distribution of the times for each stage of the investigation.



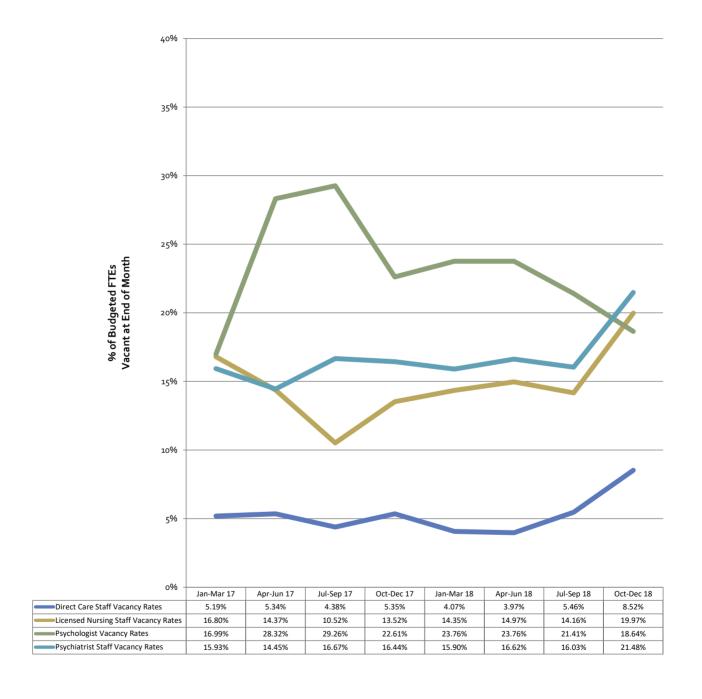
Inpatient Abuse / Neglect Investigations



NOTE: Investigations and Substantiations are a count of the number of events, not the number of alleged perpetrators or victims. Also, both counts reflect cases finalized in the quarter reported. Often, such measures are taken as a proportion of 1000 pt-days for inpatient events, but here we are using per 100 unique consumers per month in order to use the same measure as community rate.



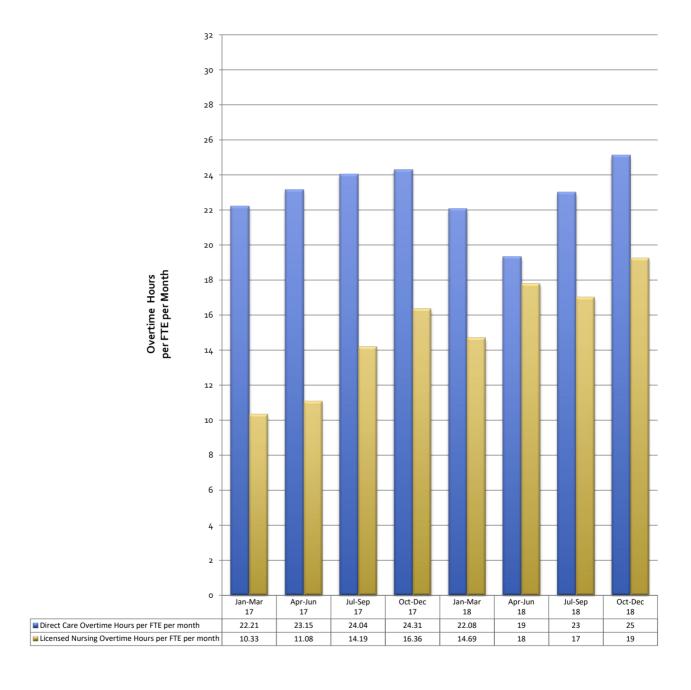
CPS Operated Facility Staff Vacancy Rates



SIGNIFICANCE: Staff vacancy rates continue to be a problem, particularly for professional staff categories and are a factor in other cost and safety related metrics. The psychologist vacancy rates have been higher than other staff vacancy rates.



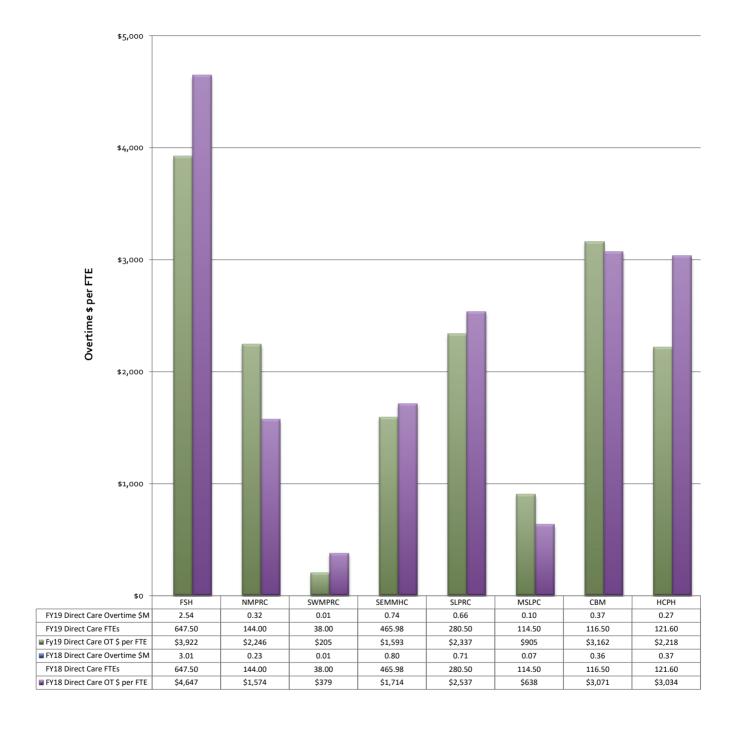
CPS Operated Facility Overtime Hours per FTE per Month



SIGNIFICANCE: Facility staffing levels, even without vacancies, are near minimums required for safety so that continued vacancy rates have historically translated into more overtime for Direct Care staff.



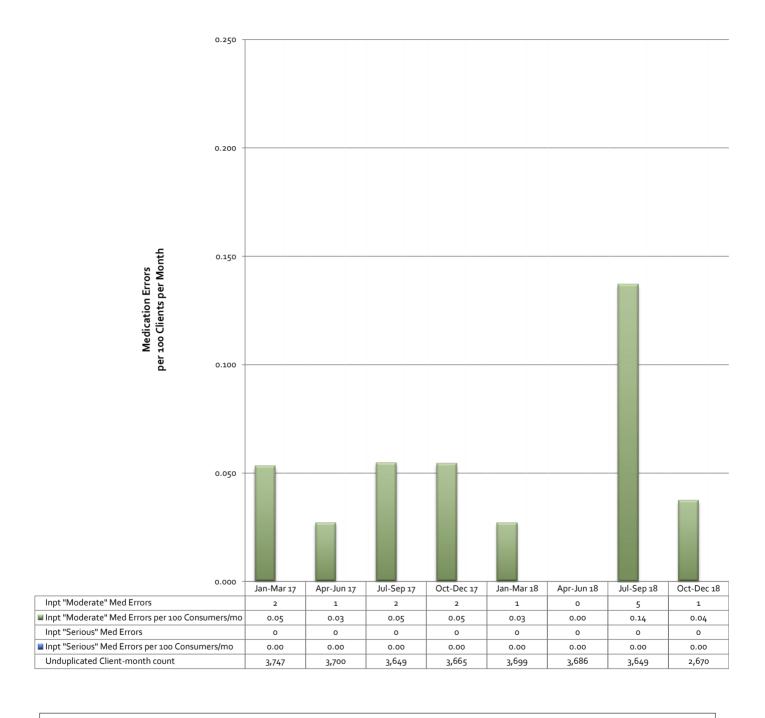
Inpatient Facility, FY19 Overtime \$ per FTE versus FY18 Overtime \$ per FTE -- FY to date



NOTE: FTEs are budgeted FTEs, and "direct care" includes all Psych Techs, SAs, and all nursing staff. In order, the facilities are: Fulton, Northwest, Southwest, Southeast, St Louis Psych., Metro. St Louis, Center for Behavioral Medicine, and Hawthorn.



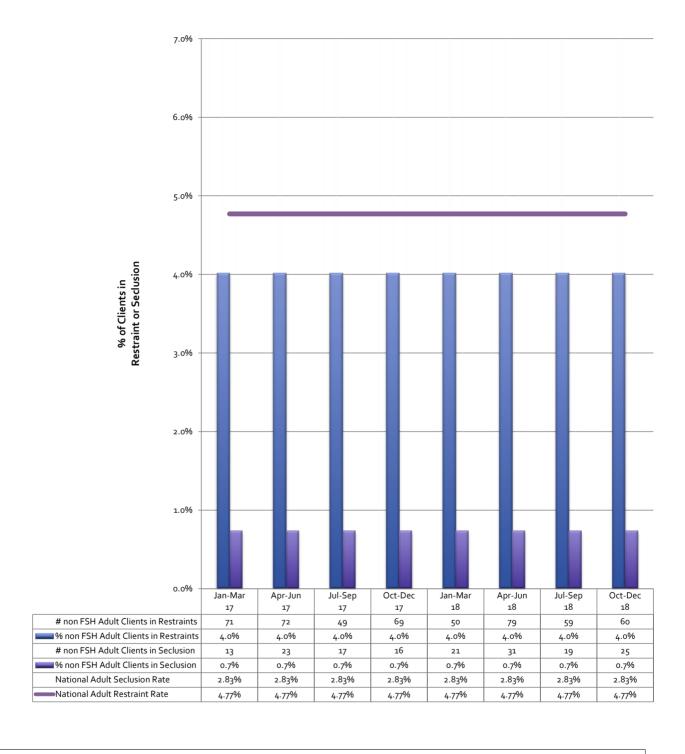
Inpatient Medication Errors



SIGNIFICANCE: "Minimal" severity med errors are tracked and reviewed for inpatient but not shown here in order to emphasize the rarer but higher profile categories of error. "Moderate" medication errors are those resulting in the need for treatment and/or interventions beyond monitoring and observation. "Serious" medication errors are those with life threatening and/or permanent adverse consequences. **NOTE:** In the most recent quarter no "moderate" medication errors have been reported.



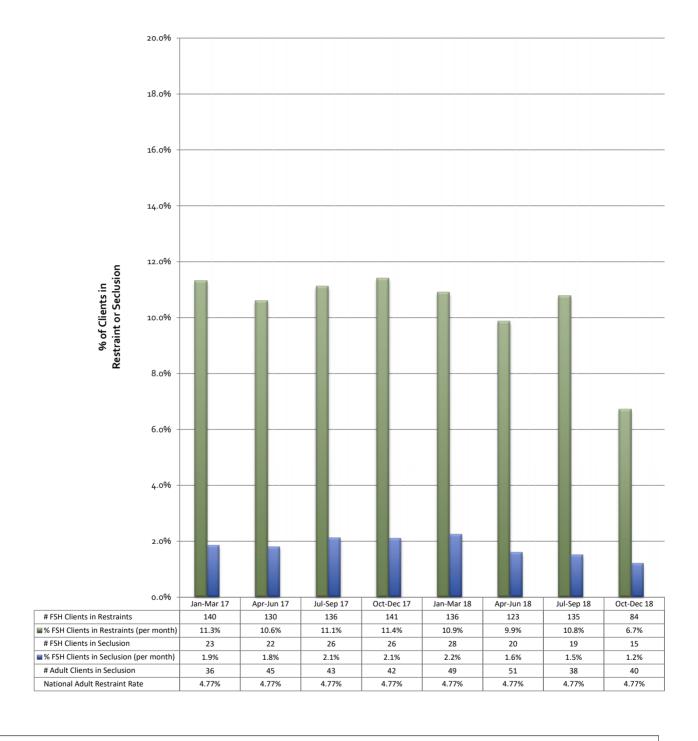
Inpatient Adult Restraint & Seclusion Use



SIGNIFICANCE: This graph excludes FSH and illustrates that adult inpatient programs outside of FSH have restraint and seclusions rates that compare favorably to the national benchmark rates. Even so, various projects are under way around the state to help reduce reliance on restraint and seclusion.



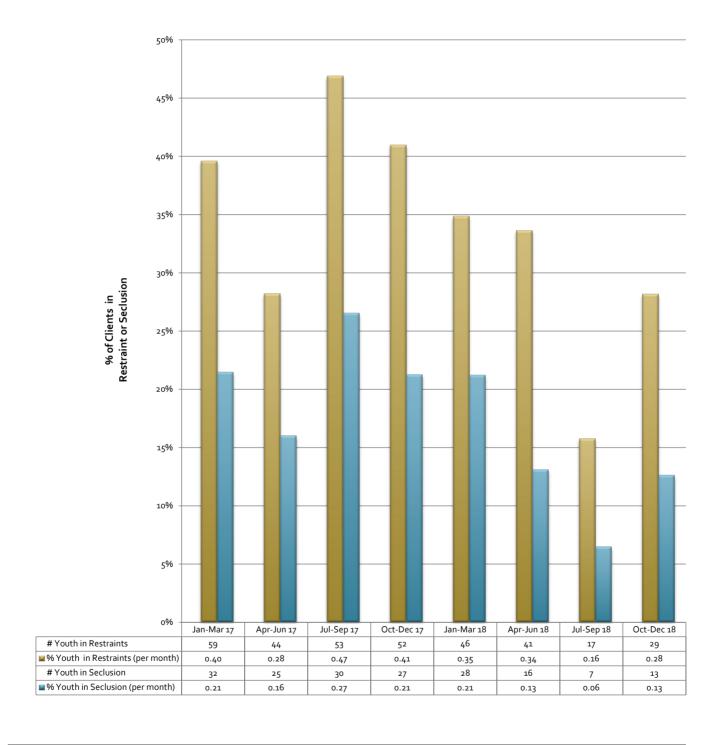
Fulton State Hospital Restraint & Seclusion Use



SIGNIFICANCE: CPS has several projects under way to help reduce reliance on restraint use. The most recent quarters show lower rates of restraint usage seen at FSH for this reporting period, although as expected the rate is still higher than seen at lower security facilities. FSH seclusion usage is also above the national benchmark rate for seclusion, but as with the restraint benchmark rate the benchmark includes all lower security level facilities.



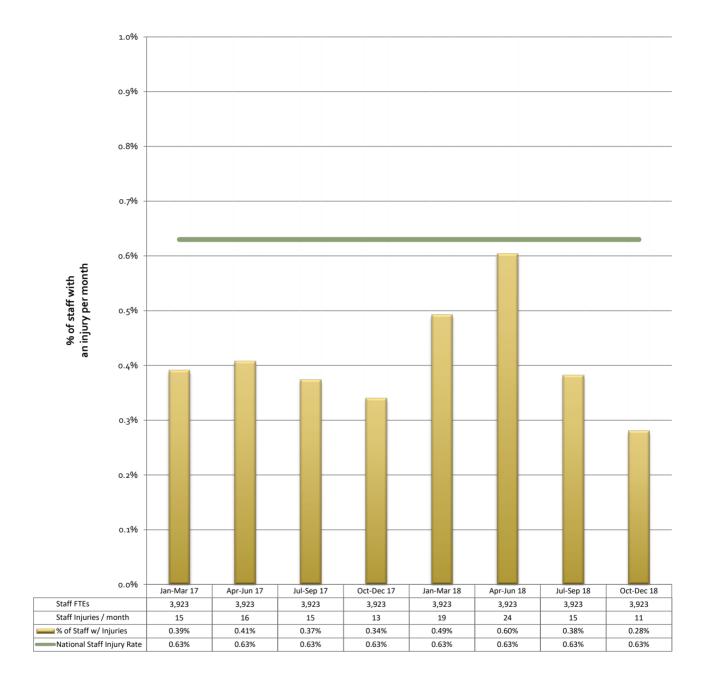
Inpatient Youth Restraint & Seclusion Use



SIGNIFICANCE: The youth restraint use rate appears to have established a higher overall rate than the relative lows of two years ago. This is generally attributed to higher acuity levels and persists in spite of continued efforts to reduce reliance on restraint. We do not have benchmark rates specific to youth for restraint and seclusion, but NRI age stratification reports confirm significantly higher rates of restraint and seclusion for youth inpatient compared to adult inpatient nationwide. The majority of youth restraint usage is for brief manual holds.



Inpatient Direct Care Staff Injuries

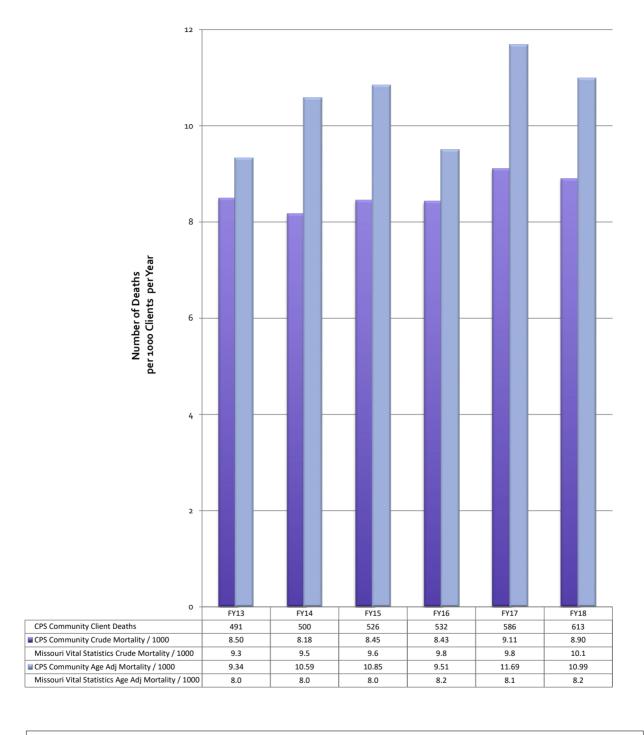


NOTE: Includes injuries requiring any medical care or hospitalization, but not first aid only. National average for inpatient staff in SFY 2012 (ORYX) was .63% of staff per month. (National rate is reported as per 1000 inpatient days, converted here into per FTE using Missouri inpatient days per FTE.)

SIGNIFICANCE: It should be noted that at such levels of injury the provision of psychiatric care remains a very high risk profession compared to other career opportunities. For four recent quarters the rate was lower than the national rate.



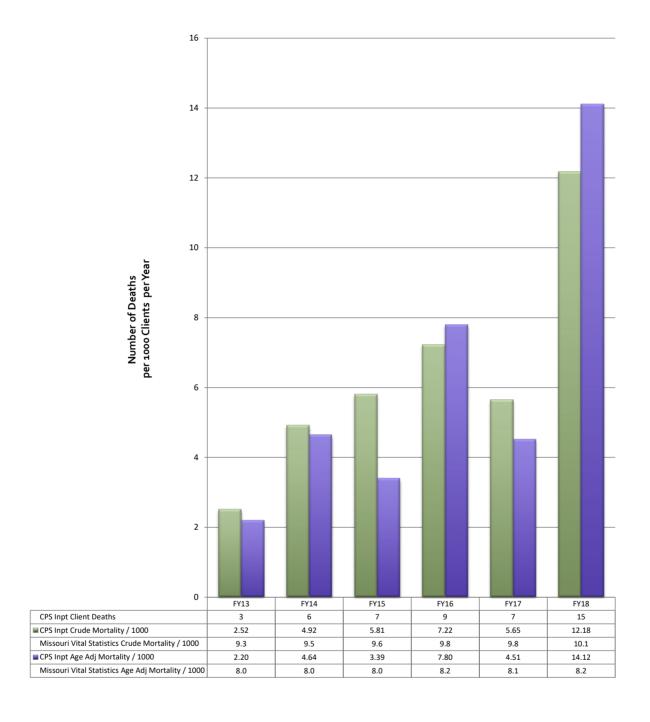
Psychiatric Services Mortality Rate in Community



NOTE: The crude mortality rate compares to the Missouri community mortality rate of 8.90 deaths per 1000 Missouri residents (2018 MO Vital Statistics). The age adjusted mortality rate for all of Missouri in 2018 was 8.2 deaths per 1000 residents. National studies report clients of psychiatric services with twice the community age adjusted mortality rate.



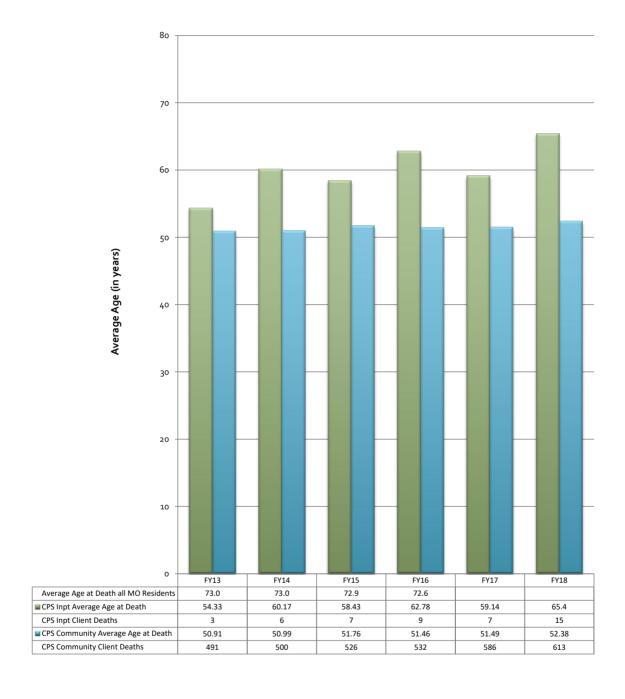
Mortality Rate in State Operated Inpatient Care



NOTE: The crude mortality rate compares to the Missouri inpatient mortality rate of 10.0 deaths per 1000 Missouri residents. (2017 MO Vital Statistics). The age adjusted mortality rate for all of Missouri in 2016 was 8.1 deaths per 1000 residents. National studies report clients of psychiatric services with twice the community age adjusted mortality rate but FY17 rates for MO inpatient compare favorably to MO average and FY17 had 5 inpatient client deaths reported.



Psychiatric Services Average Age at Death



NOTE: Deaths reported for all psychiatric inpatient and community subpopulations. All Missouri average is calculated from the "Missouri Vital Statistics".

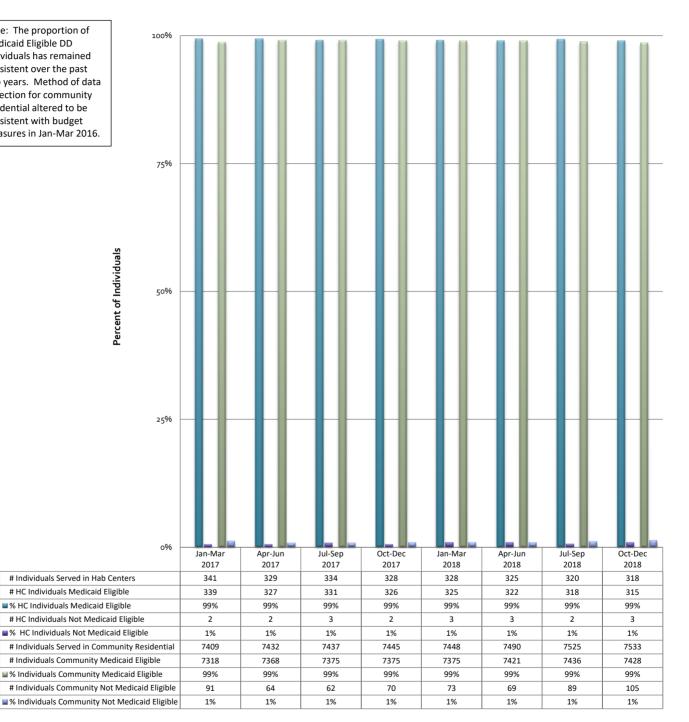
SIGNIFICANCE: National studies show that the clients of state mental health agencies die 20-25 years younger than the general population. Unfortunately, Missouri is right in line with this alarming statistic. This underlines the importance of various efforts to better integrate the physcial and mental health care of our clients throughout the state.

Division of Developmental Disabilities



Division of DD Residential Medicaid Eligibility

Note: The proportion of Medicaid Eligible DD individuals has remained consistent over the past two years. Method of data collection for community residential altered to be consistent with budget measures in Jan-Mar 2016.





Division of DD Non-Residential **Medicaid Eligibility**

100%

Note: The proportion of Medicaid Eligible DD individuals has remained consistent over the past two fiscal years. Method for collecting figures on individuals with other services and in CM only changed to be consistent with manner of collection for budget measures in Jan-Mar 2016.

75% Percent of Individuals 50% 25% ο% Apr-Jun Apr-Jun 2017 2017 2017 2017 2018 2018 2018 2018 # Individuals served in Case Management (CM) Only 15376 15691 15679 15774 15706 15130 12986 12694 # Individuals CM Only Medicaid Eligible 9585 9747 9744 9756 9831 9922 9760 9493 ■% Individuals CM Only Medicaid Eligible 62% 62% 62% 62% 63% 66% 75% 75% # Individuals Case Mngmt Only Not Medicaid Eligible 5944 5935 5875 3226 3201 5791 6018 5208 ■% Individuals CM Only Not Medicaid Eligible 38% 38% 38% 38% 37% 34% 25% 25% # Individuals Served in Other Services 12972 13128 13619 13880 14218 14435 14524 14718 # Individuals Other Services Medicaid Eligible 9949 10107 10467 10721 10965 11220 11370 11450

■ % Individuals Other Services Medicaid Eligible

Individuals Other Services Not Medicaid Eligible

% Individuals Other Services Not Medicaid Eligible

77%

3027

23%

77%

3152

23%

77%

3159

23%

77%

3253

23%

78%

3215

22%

78%

22%

78%

3268

22%

77%

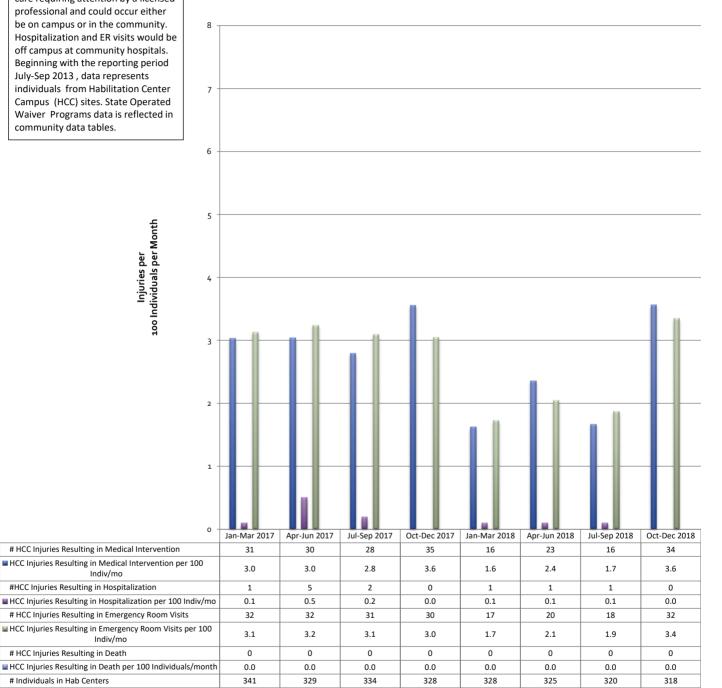
3023

23%



Division of DD Habilitation Center Campus Injuries per 100 Individuals

NOTE: Medical intervention denotes care requiring attention by a licensed professional and could occur either be on campus or in the community. Hospitalization and ER visits would be off campus at community hospitals. Beginning with the reporting period July-Sep 2013, data represents individuals from Habilitation Center Campus (HCC) sites. State Operated Waiver Programs data is reflected in community data tables.



Injuries per 100 Individuals per Month

HCC Injuries Resulting in Death

Individuals in Hab Centers

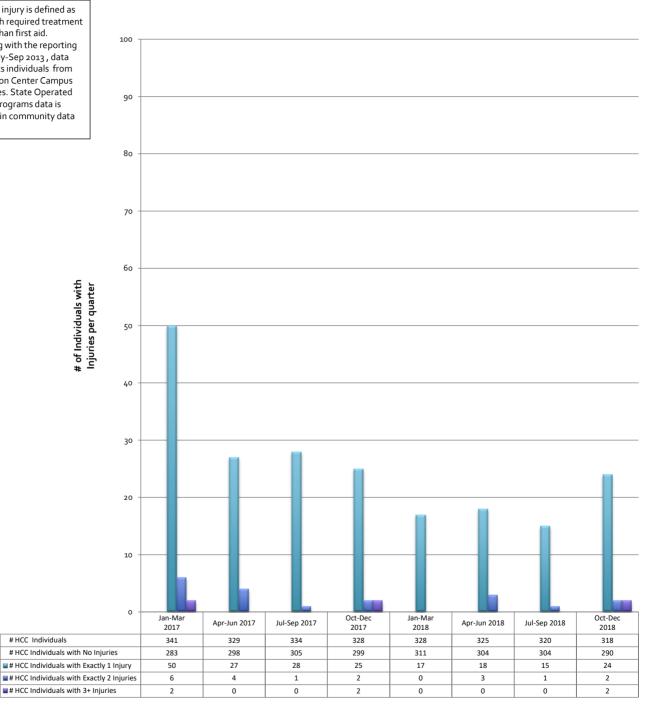
Indiv/mo #HCC Injuries Resulting in Hospitalization

Indiv/mo



Division of DD Habilitation Center Campus Individuals with 1, 2, or 3+ Injuries

Note: An injury is defined as that which required treatment of more than first aid. Beginning with the reporting period July-Sep 2013, data represents individuals from Habilitation Center Campus (HCC) sites. State Operated Waiver Programs data is reflected in community data tables.

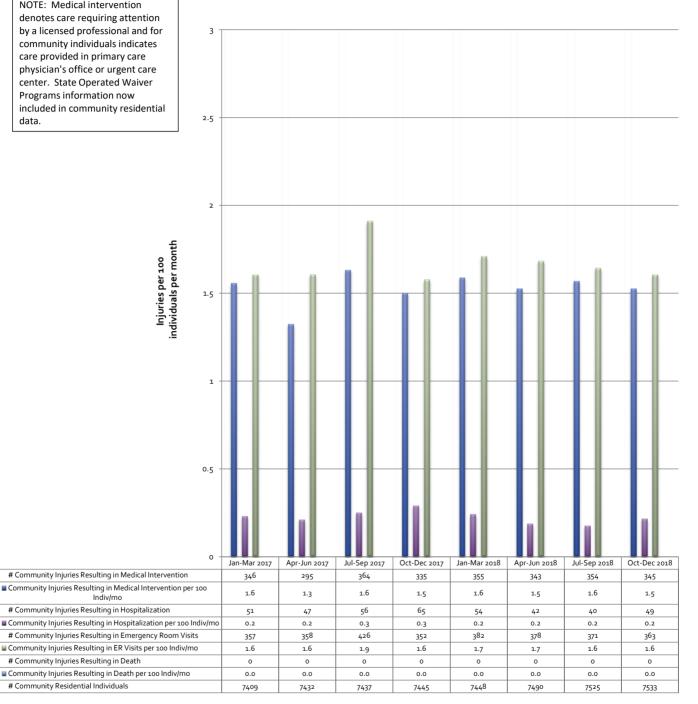


HCC Individuals



Division of DD Community Residential Injuries per 100 Individuals

NOTE: Medical intervention denotes care requiring attention by a licensed professional and for community individuals indicates care provided in primary care physician's office or urgent care center. State Operated Waiver Programs information now included in community residential data.



DMH Quarterly Performance Measures

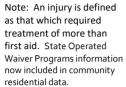
Community Injuries Resulting in Death

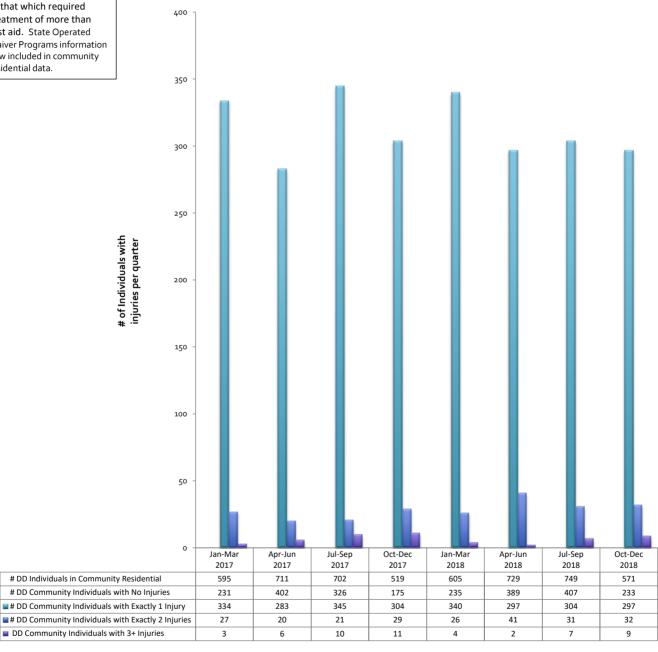
Community Residential Individuals

Indiv/mo



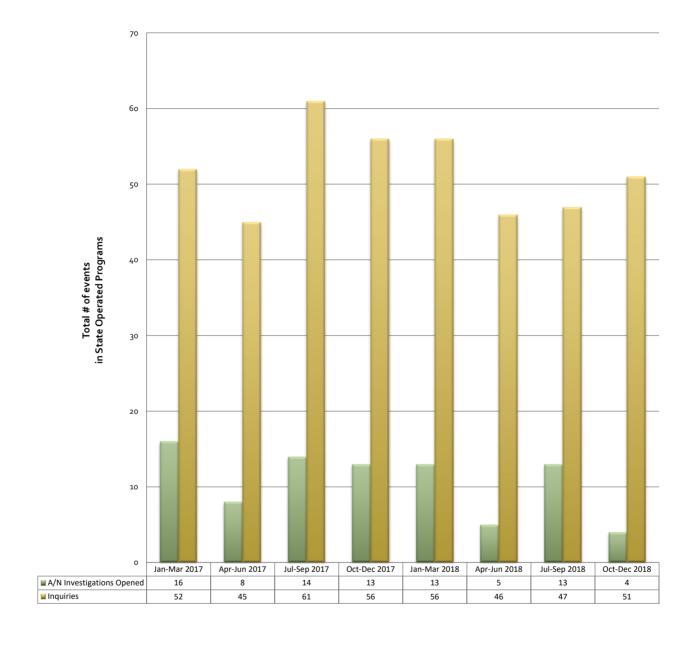
Division of DD Community Individuals with 1, 2, or 3+ Injuries







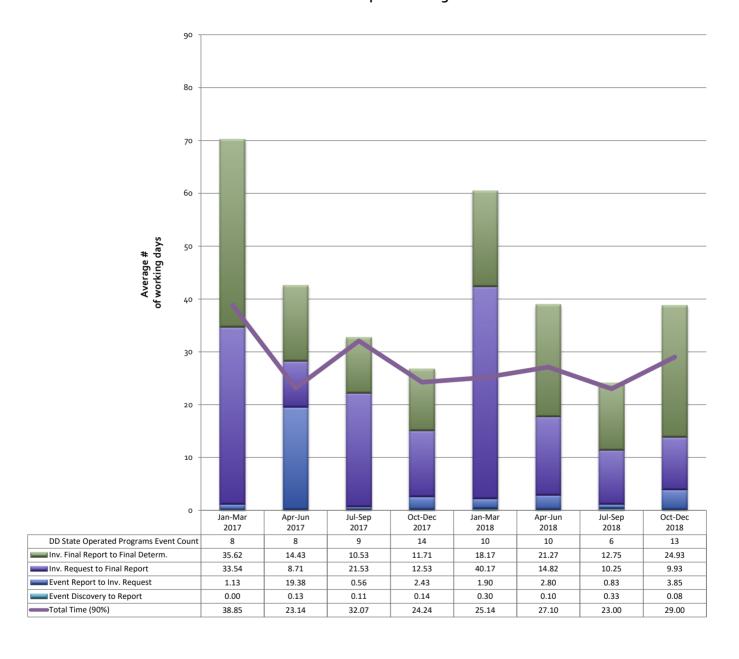
Division of DD State Operated Programs Inquiries Into Potential Abuse/Neglect Allegations



NOTE: If an event initially had an inquiry but then an A/N investigation, it is counted only as an investigation to ensure an unduplicate dcount of cases under review. Also note that a "decision" for an investigation is only the start of the investigation process. When a final judgment is made regarding an allegation, it is called a "determination". An inquiry is the process of gathering facts surrounding an event, complaint or upon discovery of unknown injury to determine whether the incident or event is suspect for abuse or neglect. This data includes Habilitation Center Campus and State Operated Waiver Programs.



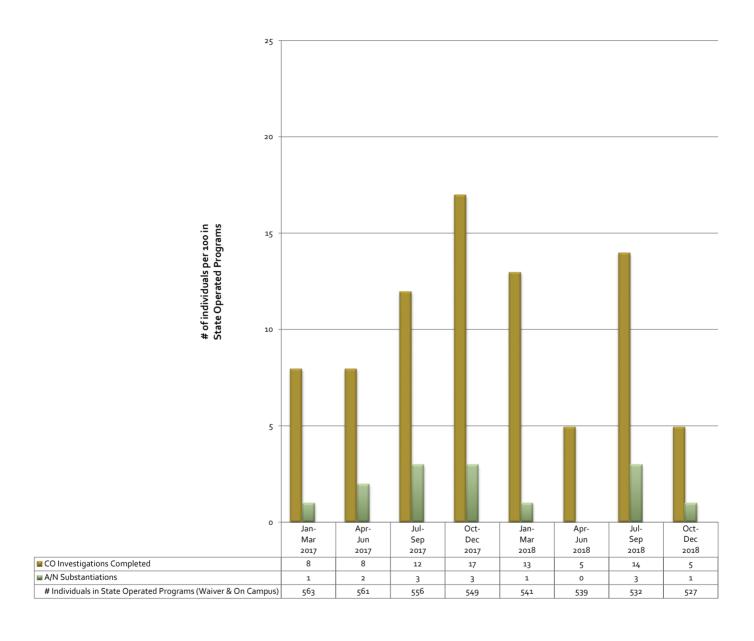
Duration of Investigation Process State Operated Programs



NOTE: Timelines are divided into four distinct stages of the investigation. The bars show the average duration (in working days) for all final determinations made in each quarter, whereas the line superimposes the overall average duration of 90% of the cases. The 90% is used in order to show a more "typical" timeline excluding outlier cases. This data includes Habilitation Center Campus and State Operated Waiver Programs.



Division of DD State Operated Programs Abuse and Neglect Completed Investigations/Substantiations

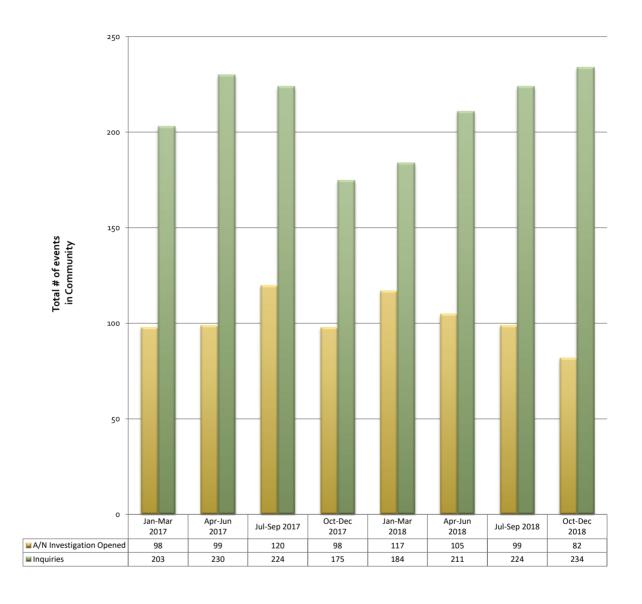


NOTE: Investigations and Substantiations are a count of the number of events, not the number of alleged perpetrators or victims.

Also, both counts reflect cases finalized in the quarter reported. Process includes both Habilitation Center Campus and Waiver programs.



Division of DD Community Inquiries Into Potential Abuse/Neglect Allegations



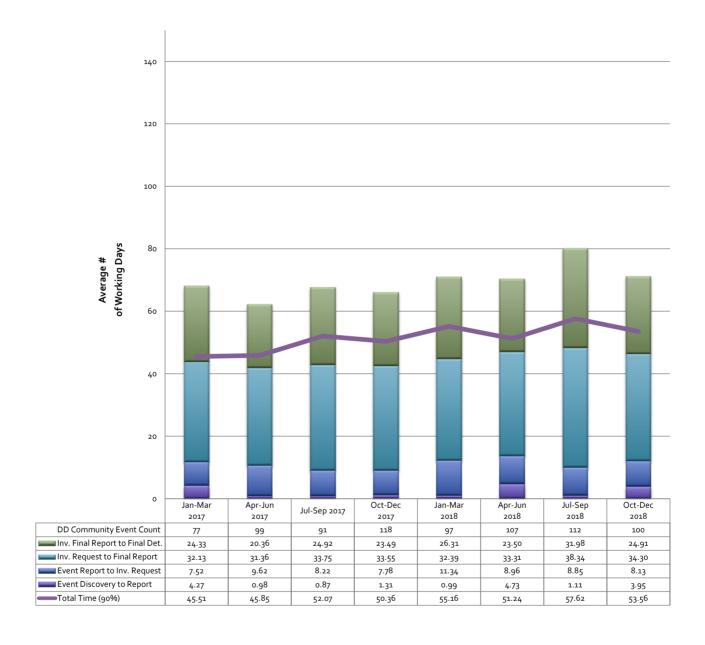
NOTE: If an event intially had an inquiry but then an A/N investigation, it is counted only as an investigation to ensure an unduplicated acount of cases under review Also note that a "decision" for an investigation is only the start of the investigation process. When a final judgment is made regarding an allegation it is called a

"determination".

Definition - Inquiry: process of gathering facts surrounding an event, complaint or upon discovery of unknown injury to determine whether the incident or event is suspect for abuse or neglect.



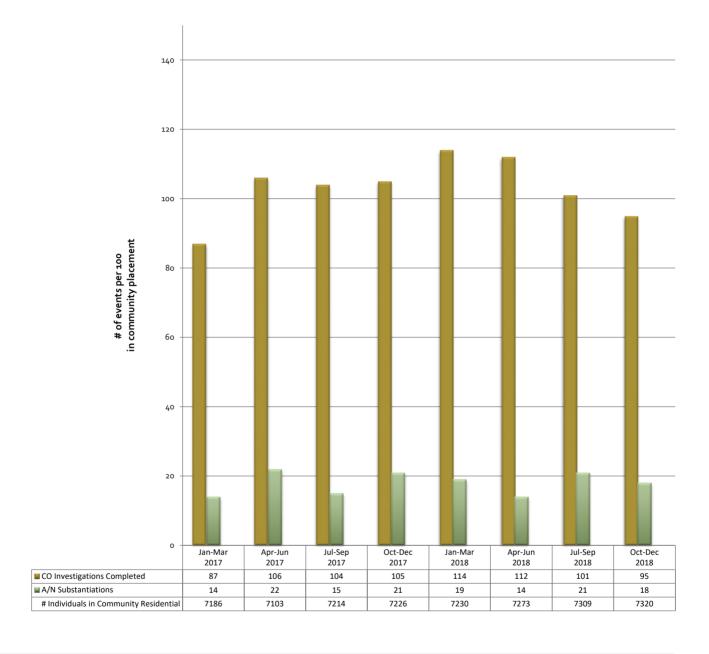
Duration of Investigation Process DD Community



NOTE: Timelines are divided into four distinct stages of the investigation. The bars show the average duration (in working day) for all final determinations made in each quarter, whereas the line superimposes the overall average duration of 90% of the cases. The 90% is used in order to show a more "typical" timeline excluding outlier cases.



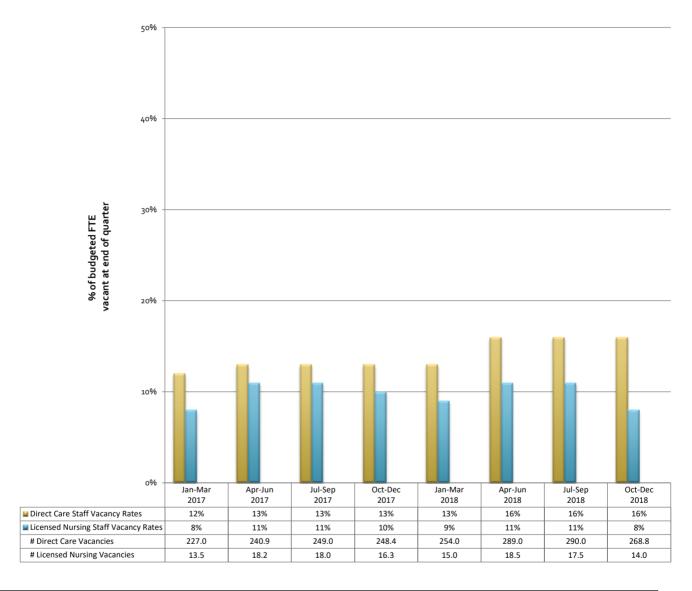
Division of DD Community Abuse and Neglect Investigations



NOTE: Investigations and Substantiations are a count of the number of events, not the number of alleged perpetrators or victims. Also, both counts reflect cases finalized in the quarter reported. Starting in the Jul-Sep 2013 quarter, "# Individuals in Community Residential" excludes individuals receiving services through the State Operated Waiver.



Division of DD State Operated Programs Staff Vacancy Rates



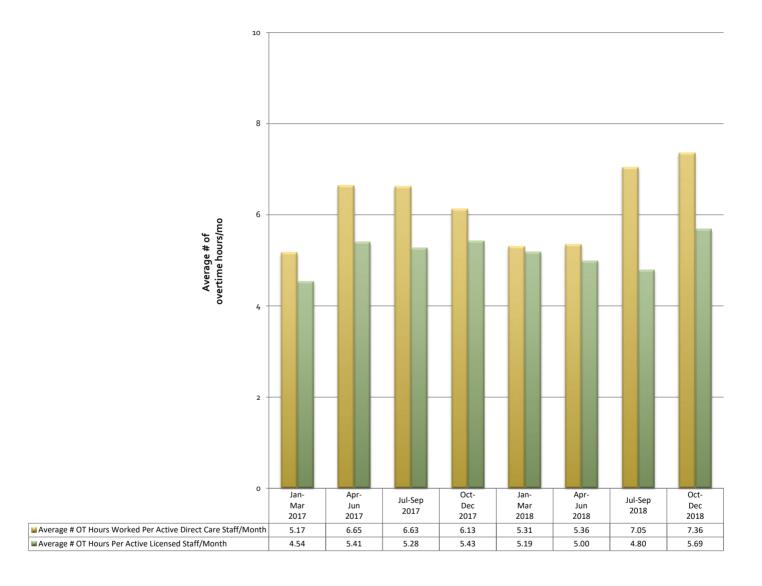
NOTE: Vacancy rates are based upon last day of the month for the quarter. Chart includes Habilitation Center Campus and State Operated Waiver Programs vacancy data.

Definitions: Direct Care - DAI, DAII, DAIII.

Licensed Nursing - Licensed Practical Nurses (LPN) and Registered Nurses (RN).



Division of DD State Operated Programs Staff Overtime Hours



NOTE: Staff noted are active staff. Chart includes Habilitation Center Campus and State Operated Waiver Programs overtime data. Definitions: Direct Care - Developmental Assistant I (DAI), DAII, DAIII.

Licensed Nursing: Licensed Practical Nurses (LPN) and Registered Nurses (RN).

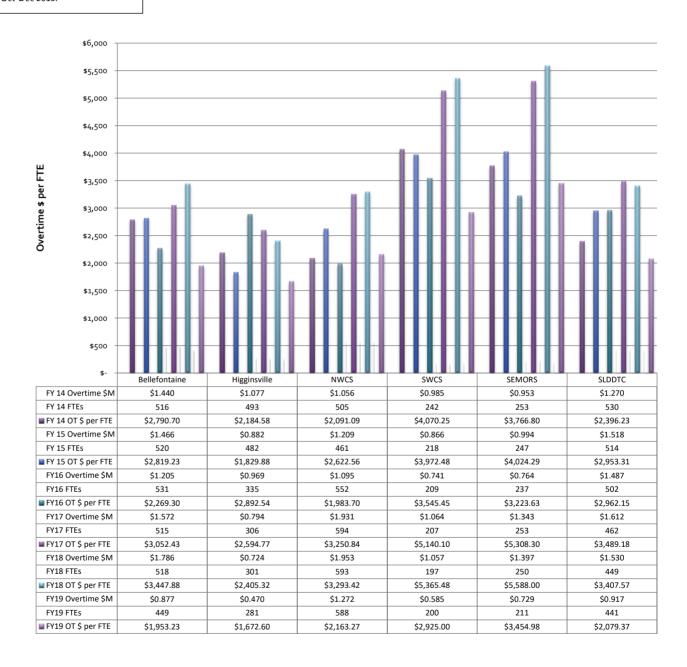
Method of data collection for this measure was revised for number of staff beginning with Oct-Dec 2018.



State Operated Programs Overtime Accrued FY 2012-FY 2018 YTD Comparison

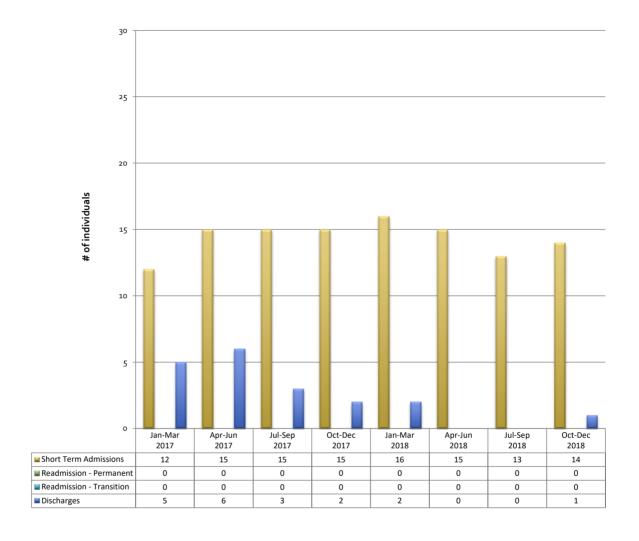
Note: Chart includes Habilitation Center Campus and State Operated Waiver Programs.overtime data.

Method of data collection for this measure was revised for number of staff beginning with the Oct-Dec 2018.





Division of DD State Operated Programs Short Term Admissions, Readmissions and Discharges



<u>Short Term:</u> Total number of individuals admitted to SOP from any Community Provider for medical and/or behavioral short term support with intention of returning back to their home in the community. Note: 100% of the days a crisis bed was available. Crisis bed services are provided in both Habilitation Center Campus and State Operated Waiver Program settings.

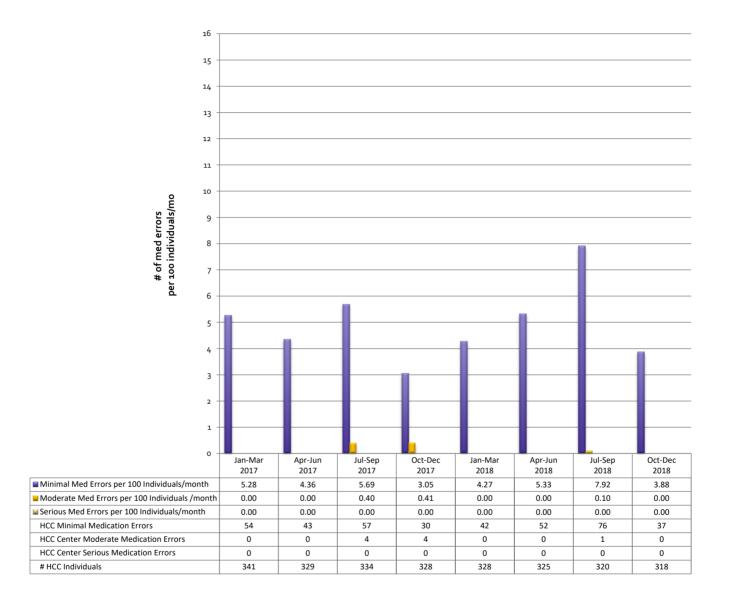
<u>Permanent:</u> Total number of individuals previously discharged from the Habilitation Center Campus within the last 12 months that returned during report period with no plans to move back to community.

<u>Transition:</u> Total number of individuals, previously discharged from the Habilitation Center Campus within the past 90 days, that returned during report period as part of transition plan for medical and/or behavioral support and are expected to return to their home in the community.

<u>Discharges:</u> Total number of individuals who lived on the Habilitation Center Campus and transitioned to community waiver providers or who were discharged to other settings during the reporting period.



Division of DD Habilitation Center Campus Medication Errors

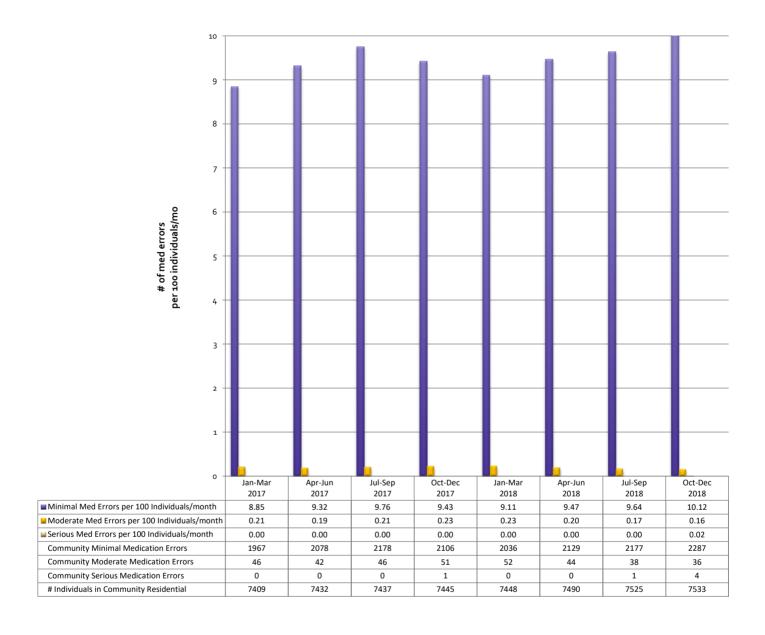


Definition of med error: "Minimal"- no or minimal adverse consequences and no treatment or other interventions other than monitoring or observation. "Moderate" - is short term reversible adverse consequences and receives treatment and/or intervention in addition to monitoring. "Serious"- life threatening and/or permanent adverse consequences.

NOTE: Beginning reporting period July-Sep 2013, data represents individuals from Habilitation Center Campus (HCC) sites. State Operated Waiver Programs data is reflected in community data tables.



Division of DD Community Medication Errors

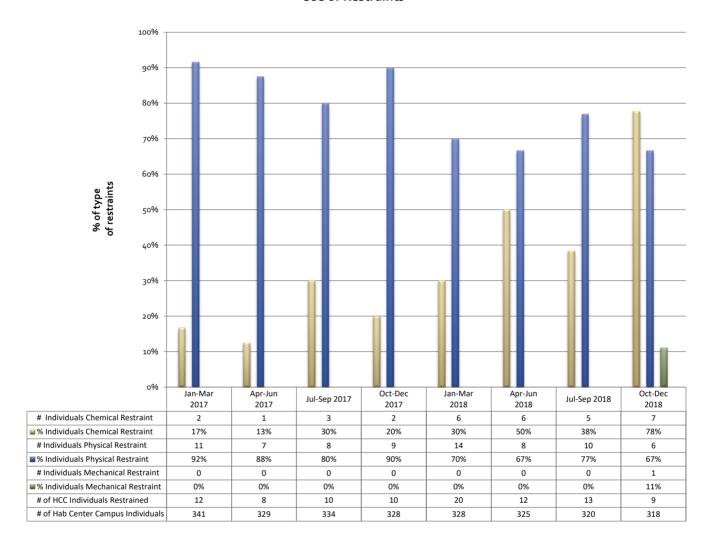


Definitions of med errors: "Minimal" - no or minimal adverse consequences and no treatment or interventions other than monitoring or observation. "Moderate" - short term or reversible adverse consequences and receives treatment and/or intervention in addition to monitoring. "Serious" - life threatening and/or permanent consequences.

NOTE: Beginning reporting period Jul-Sep 2013, data will also include information from State Operated Waiver Programs (SOWP)



Division of DD Habilitation Center Campus Use of Restraints



NOTE: Each individual who experienced at least one chemical, physical, mechanical restraint is counted so duplication occurs. For example, one individual may experience a chemical restraint and a physical restraint. They are counted in both categories.

Percentage of each type of restraint is based on total number of people restrained for the quarter. Beginning reporting period July-Sep 2013, data represents individuals from Habilitation Center Campus (HCC) sites.

Chemical Restraint: A medication used to control behavior or to restrict the individual's freedom of movement and is not a standard treatment for the person's medical or psychiatric condition. A chemical restraint would put an individual to sleep or render them unable to function as a result of the medication.

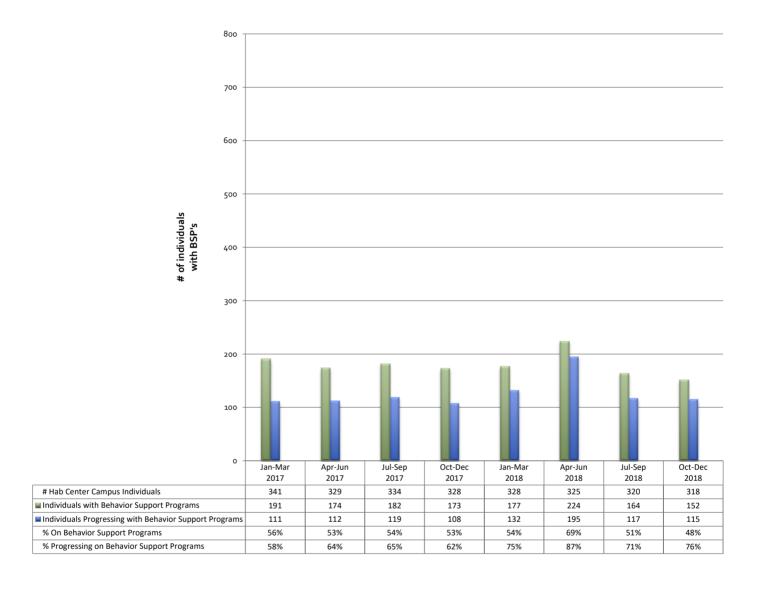
Physical Restraint: Any physical hold involving a restriction of an individual's voluntary movement.

Mechanical restraint: Any device, instrument or physical object used to confine or otherwise limit an individual's freedom of movement that he/she cannot easily remove.

Restrained: Distinct count of individuals (long term, on campus only) who experienced at least one restraint (chemical, physical, and/or mechanical) during the quarter for behavioral reasons, no medical immobilization, no medical procedures.



Division of DD Habilitation Center Campus Individuals with Behavior Support Programs



NOTE: Individuals placed on Behavior Support Programs (BSP's)may be those who have been prescribed medication for a psychiatric disorder or who exhibit behaviors that interfere with their level of functioning. Number is based on average for the quarter.

Definition - Individuals with BSP's: Individuals with an individualized plan of behavior analytic procedures developed to systematically address skills or behaviors to be learned and behaviors to be reduced or eliminated.

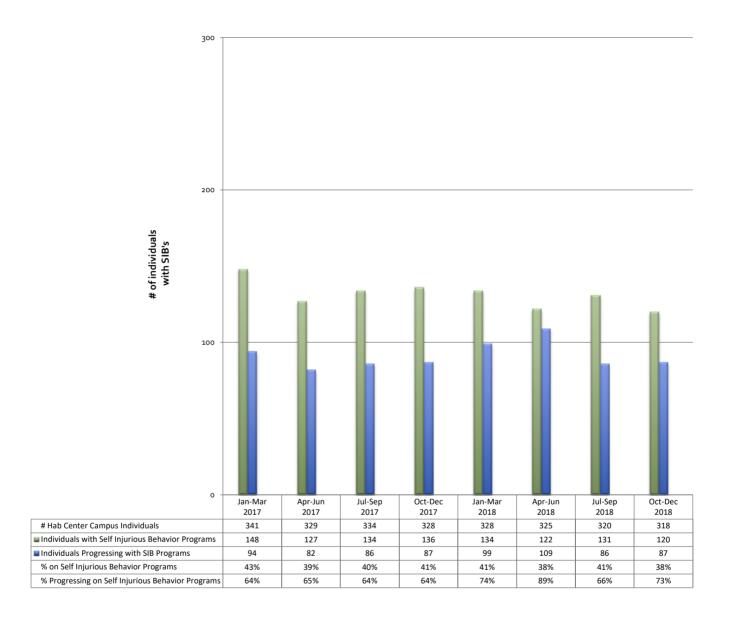
Definition - Consumers progressing with BSP's: Individuals who are at baseline or below for their targeted behaviors identified in their BSP.

Beginning reporting period July-Sep 2013, data represents individuals from Habilitation Center Campus (HCC) sites.

Note the transition to off-campus for MHC becoming NWCS Jan-Mar 2016.



Division of DD Habilitation Center Campus Individuals with Self Injurious Behavior (SIB) Programs



Definition- Self Injurious Behavior Program: A individual with a Behavior Support Program that includes a program developed to systematically reduce or eliminate Self Injurious Behaviors (incidents of self harm) such as slapping self in the face, biting self on hand, or banging own head.

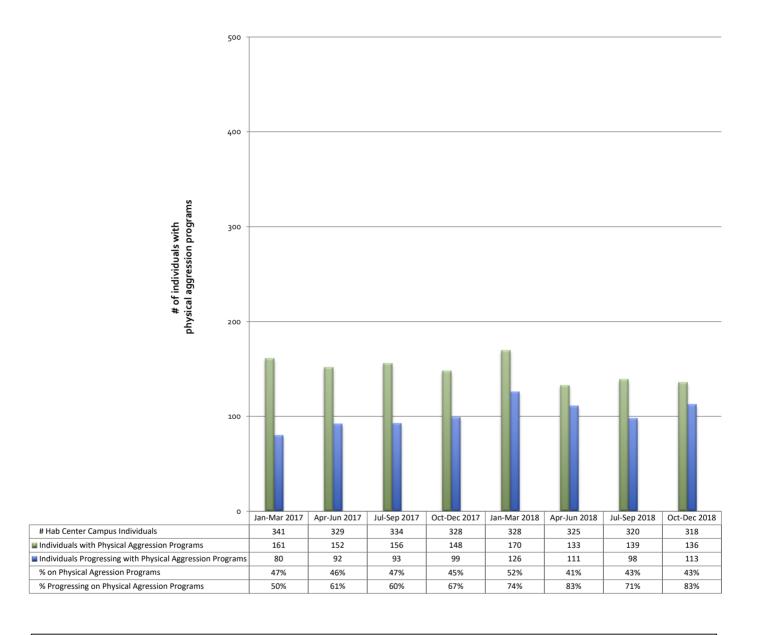
Definition- Progressing with Self Injurious Behavior Programs: An individual who is at baseline or below for their Self Injurious Behavior Program.

Beginning reporting period July-Sep 2013, data represents individuals from Habilitation Center Campus (HCC) sites.

Note the transition to off-campus for MHC becoming NWCS Jan-Mar 2016



Division of DD Habilitation Center Campus Individuals with Physical Aggression Programs



Definition - Physical Aggression Programs: Individuals with a Behavior Support plan that includes a program designed to reduce or eliminate Physical Aggression (such as hitting, kicking, throwing objects, biting) towards another person.

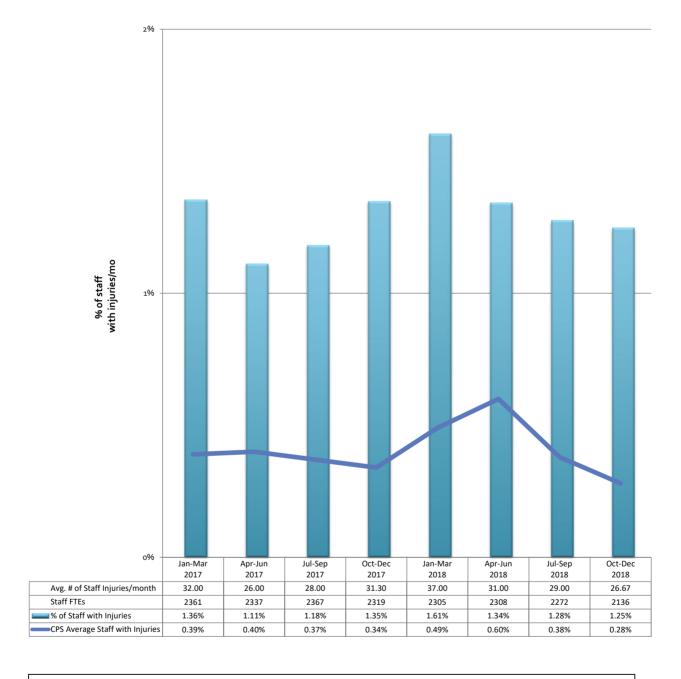
Definition - Progressing with Physical aggression programs: Individuals who are at baseline or below for their Physical Aggression program.

Beginning reporting period July-Sep 2013, data represents individuals from Habilitation Center Campus (HCC) sites.

Note the transition to off-campus for MHC becoming NWCS Jan-Mar 2016



Division of DD State Operated Programs Staff Injuries

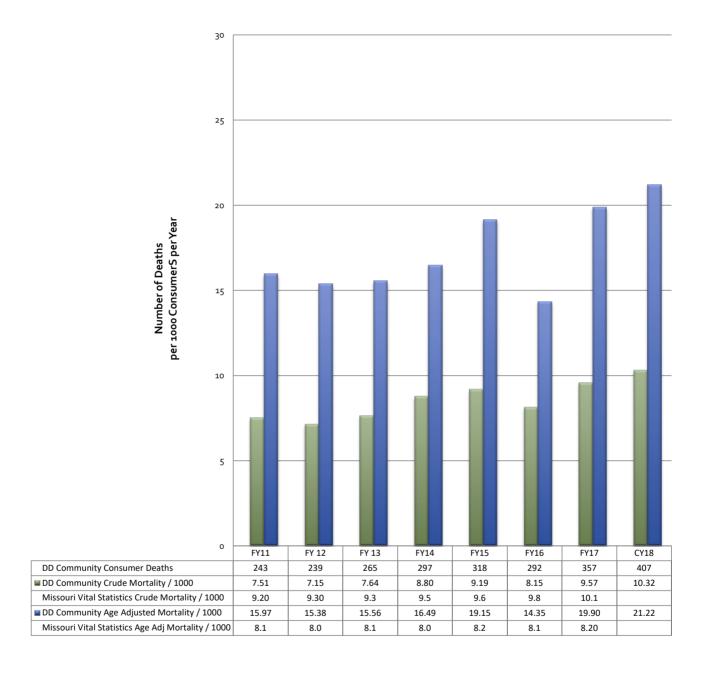


Definition: Total number of different employees who experienced at least one injury requiring medical treatment or hospitalization.

NOTE: Chart includes both Habilitation Center Campus and State Operated Waiver Programs staff data.



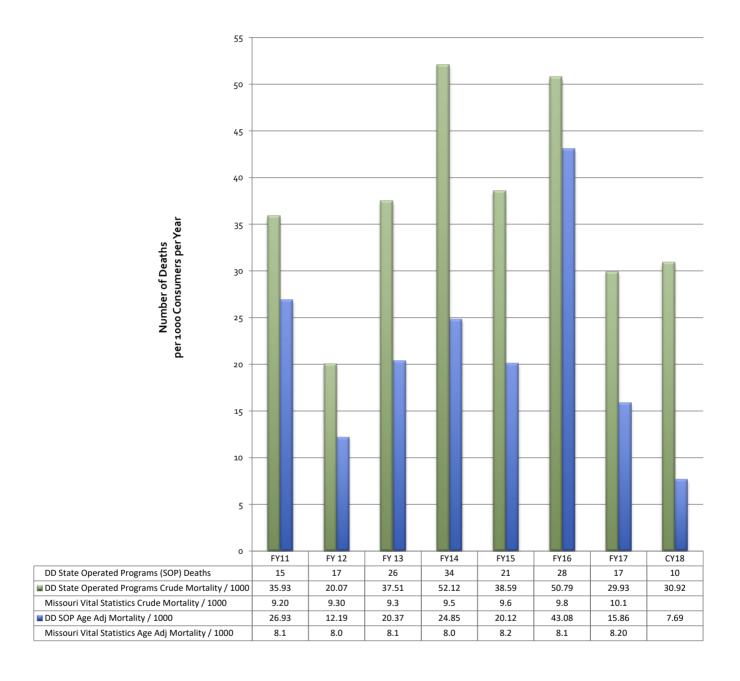
DD Mortality Rate in Community



NOTE: Deaths reported for consumers receiving community services. Per 1000 client years compares to the Missouri community mortality rate of 10.1 deaths per 1000 Missouri residents (2017 MO Vital Statistics). Age adjusted mortality rate and crude mortality rate not available from Missouri Vital Statistics as of 1-31-19. For FY18 the Division started utilizing calendar year data to initiate time period equivalence. Previous to CY18, data from Vital Statistics calendar year was reported in conjunction with data from the Diivision's fiscal year.



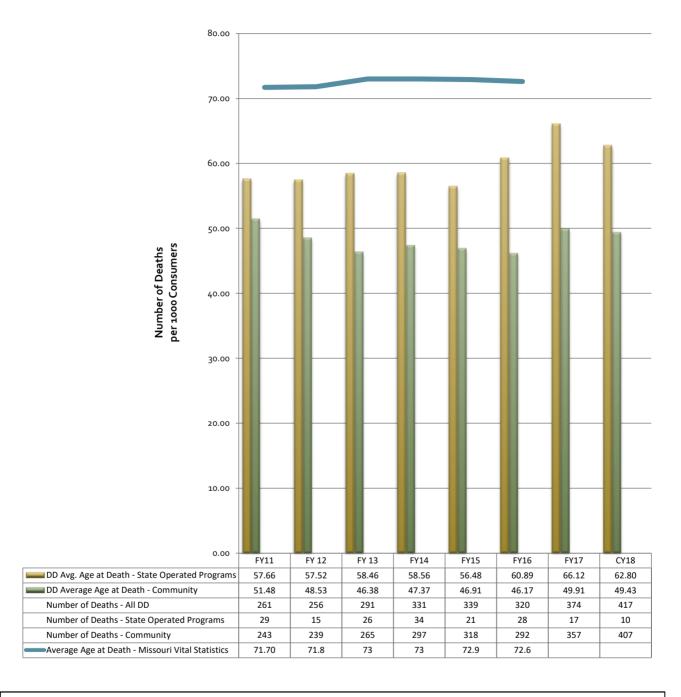
DD Mortality Rate in Habilitation Centers



NOTE: Deaths reported for consumers residing in Habilitation Centers. Per 1000 client years compares to the Missouri community mortality rate of 10.1 deaths per 1000 Missouri residents (2017 MO Vital Statistics). Age adjusted mortality rate and crude mortality rate not available from Missouri Vital Statistics as of 1-31-19. For FY18 the Division started utilizing calendar year data to initiate time period equivalence. Previous to CY18, data from Vital Statistics calendar year was reported in conjunction with data from the Diivision's fiscal year.



DD Average Age At Death



NOTE: Deaths reported for all DD State Operated Programs and community consumers. All Missouri average is calculated from the "Missouri Vital Statistics (2017-2018 not yet available as of 1-31-19). In FY18 the Division started utilizing calendar year data to initiate time period equivalence. Previous to CY18, data from Vital Statistics calendar year was reported in conjunction with data from the Diivision's fiscal year. Average age of death is not published for singular years by the Department of Vital Statistics starting in 2017.