



Department of
Mental Health

Ted Strickland, Governor
Sandra Stephenson, Director

September 7, 2009

Dear Community Mental Health Service Provider:

The second PI Survey Results Report is now available! This report describes statewide patterns and trends in the use of restraint and seclusion in residential and outpatient mental health services. The report focuses on data from the last two quarters of Fiscal Year 2009, January 1 through June 30, 2009.

This report was developed for the purpose of providing information that organizations can use for benchmarking and identifying trends; however, *we recommend caution when interpreting these results*. Many factors that affect the frequency and duration of restraint were not evaluated in this report (e.g., prevalence of serious mental illness) and should be considered when interpreting these results.

We are grateful for the feedback we received following our first PI Survey Results Report. We made several changes to the format of this report in response to feedback. Please contact me and let me know if you have addition comments or questions (crane-rossd@mh.state.oh.us or 614-644-2182).

Thank you for your continued dedication to improving the quality of mental health services to Ohioans with mental illness.

Sincerely,

Dushka Crane-Ross, Ph.D.
Quality Improvement Director
Ohio Department of Mental Health
Crane-rossd@mh.state.oh.us
(614) 644-2182

Establishing mental health as a cornerstone to overall health

30 East Broad Street
Columbus, Ohio 43215
Mentalhealth.ohio.gov

614|466-2297
614|752-9696 TTY
614|752-9452 FAX

Ohio Department of Mental Health
 Performance Improvement Survey #10 Results Report
 Restraint and Seclusion Indicators, January through June, 2009

Youth Residential Treatment Centers

Use of manual/physical restraint was reported by 20 of 22 youth residential treatment centers licensed by ODMH. No providers reported use of mechanical restraint. Two providers reported the use of seclusion. The charts and tables that follow pertain to the use of manual restraint and include measures of frequency, duration and patterns of use.

Restraints per 1000 Client Days. In order compare frequencies across organizations of different sizes, frequencies were calculated relative to client days (i.e., census). *Restraints per 1000 Client Days* is calculated using the following formula:

$$\text{Restraints per 1000 Client Days} = \frac{\text{total \# of restraints}}{\text{total. \# client days}}$$

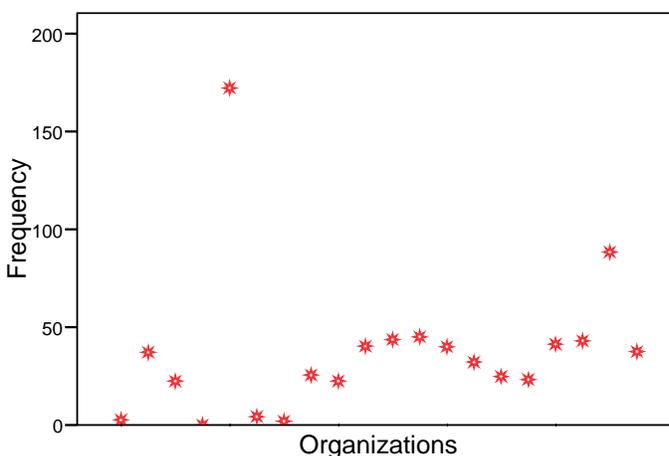
You can use this formula to calculate *Restraints per 1000 Client Days* at your organization.

For example, if there were 15 incidents of restraint in June and your total census in June was 600 client days (ie, 20 clients per day x 30 days in June), then:

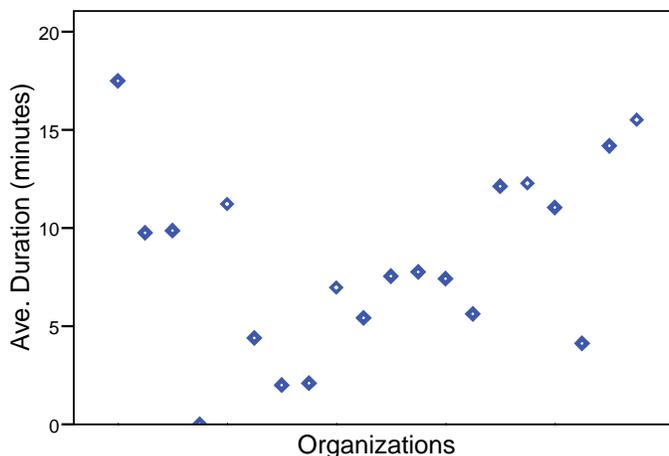
$$\text{Res. per 1000 Days} = (15/600) \times 1000 = 25.0$$

Using this formula, you can find your organization on the chart to the right.

Restraints per 1000 Client Days



Average Duration per Restraint



Average Duration of Restraint. The *Average Duration per Restraint* was calculated using the following formula:

$$\text{Ave. Duration} = \frac{\text{total min. of restraint}}{\text{total. \# of restraints}}$$

Using this formula, you can identify your organization on the chart to the right.

Restraint Frequency and Duration, Youth Resident Services

Indicator	Number	Median	Mean	St. Dev.
Restraints per 1000 Client Days	20	34.6	37.4	37.6
Average Duration per Restraint	20	7.7	8.3	4.7

Youth Residential Treatment Centers, continued

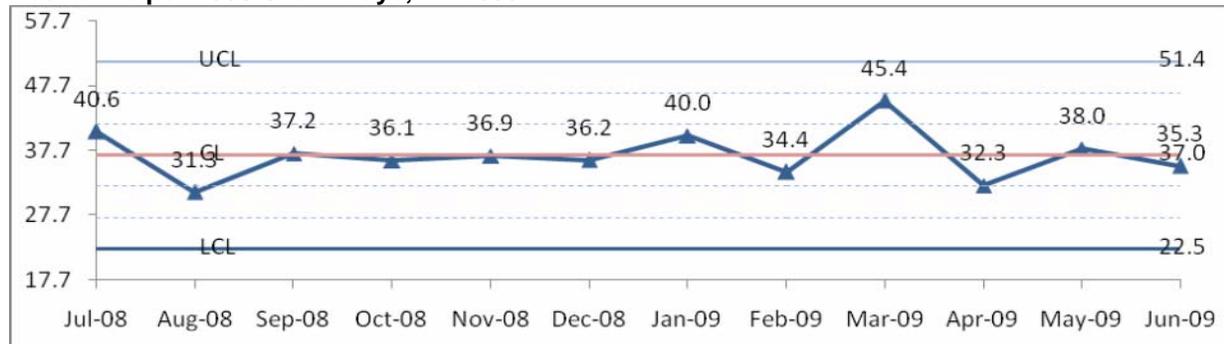
Trends Over Time for Fiscal Year 2009. The table and chart below represent trends in the use of manual restraint over time in ODMH licensed youth residential facilities. Over the past 12 months, there was a decrease in the total number of restraints that was proportional with a decrease in client days (census). There was no statistically significant change in the frequency of restraints relative to client days.

Trends Over Time for Fiscal Year 2009, Youth Residential Services

Indicator	Jul-08	Aug-08	Sep-08	Oct-08	Nov-08	Dec-08	Jan-09	Feb-09	Mar-09	Apr-09	May-09	Jun-09
Ave Restraints per month	63.5	47.4	50.7	46.7	49.7	50.7	45.1	40.3	45.6	37.6	42.6	40.0
Ave Client Days (census) per month	1239	1185	1141	1193	1157	1180	977	1004	1052	1027	1024	993
Restraints per 1000 Client Days*	40.6	31.3	37.2	36.1	36.9	36.2	40.0	34.4	45.4	32.3	38.0	35.3

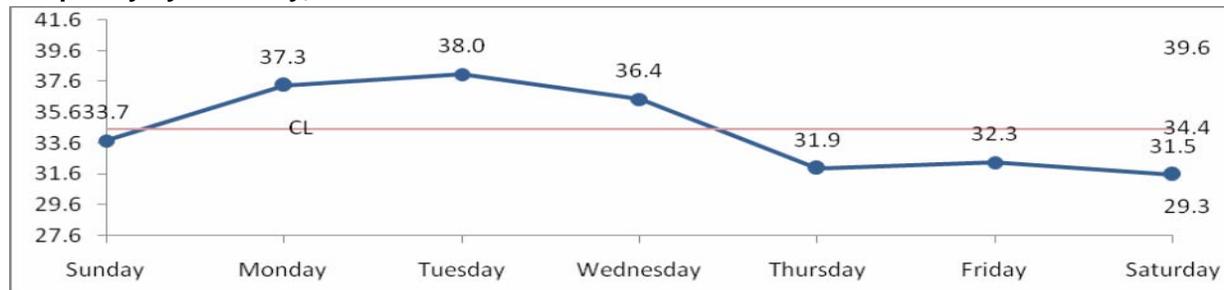
*Average Across 20 Organizations

Restraints per 1000 Client Days, FY 2009

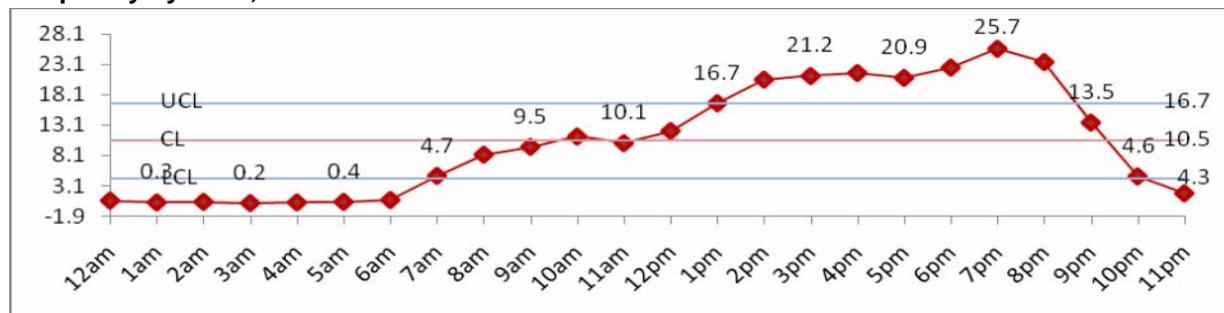


Weekday and Hour. The following charts represent restraint frequencies related to both day of the week and hour of the day. Restraints were most common during weekdays, with the highest levels occurring early in the week. Restraints were most frequent during waking hours, from 7am to 10 pm, peaking between 1pm and 8pm.

Frequency by Weekday, Youth Residential



Frequency by Hour, Youth Residential Services



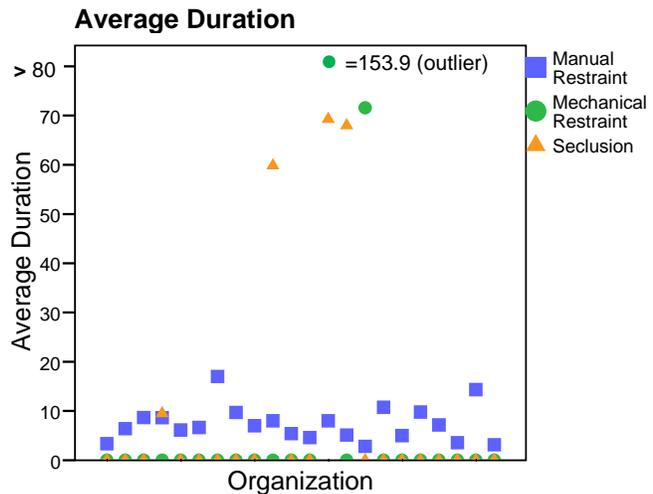
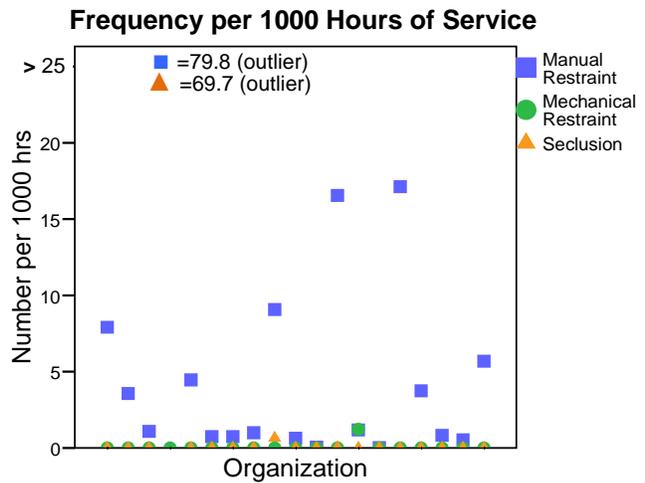
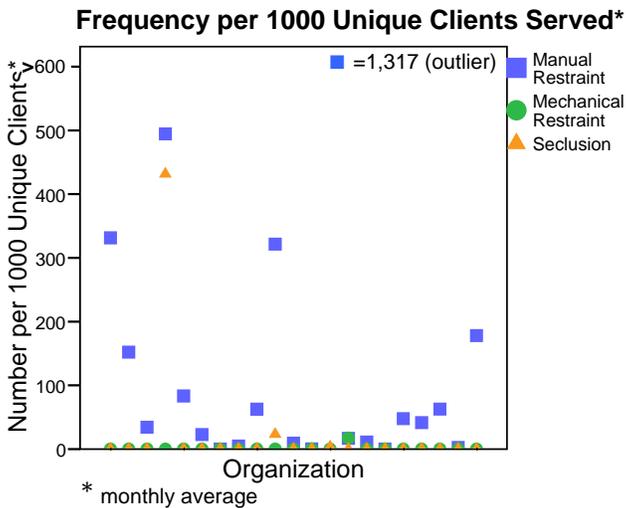
Outpatient Community Mental Health Centers

Use of manual restraint was reported by 22 outpatient mental health organizations, which represent a small portion (approximately 7%) of providers responding to the PI Survey. Mechanical restraint was reported by only two organizations and four organizations reported the use of seclusion. The majority of organizations reporting restraint provide intensive services such as partial hospitalization (73%) or crisis intervention (27%). The following scatter diagrams depict the frequency and average duration of seclusion and restraint.

Frequency of Manual Restraint, Mechanical Restraint and Seclusion (S/R). In order to compare frequencies across organizations of different sizes, frequencies were assessed relative to the total number of unique clients served and the total number of hours of service provided. Organizations can use the following formulas to determine their *Frequency per 1000 Unique Clients Served* and *1000 Hours of Service* and compare themselves to other organizations on the charts below.

$$\text{Freq. per 1000 Clients} = \frac{\# \text{ of S/R}}{\# \text{ unique clients}} \times 1000$$

$$\text{Freq. per 1000 Hours} = \frac{\# \text{ of S/R}}{\# \text{ hrs of svc.}} \times 1000$$



Average Duration of Restraint & Seclusion (S/R).
The Average Duration was calculated using the following formula:

$$\text{Ave. Duration S/R} = \frac{\text{total min. S/R}}{\text{total \# S/R}}$$

Using this formula, you can identify your organization on the chart to the right.

Manual Restraint Indicators

Indicator	Number	Median	Mean	St. Dev.
Frequency per 1000 Unique Clients	21	41.5	152.1	298.6
Frequency per 1000 Hours of Service	19	1.2	8.1	18.1
Average Duration	22	6.8	7.3	3.5