Seclusion and Restraint Data Report
January-June 2014
Inpatient Psychiatric Service Providers
Nicholas Martt, MSW, LSW
Data collection

• Reporting in statute
• OAC 5122-14-14
• All Inpatient Hospital Providers
• Required Reporting
  ➢ Seclusion
  ➢ Mechanical Restraint
  ➢ Physical (Manual) Restraint
  ➢ S/R-Related injuries to staff
• 6 month reporting:
  ➢ January to June
  ➢ July to December
Methods

• January to June, 2014
  • 79 Private Hospitals/units reporting during 6 month period
  • 72 Serving Adults only
  • 7 Serving Children/Adolescents only
  • 8 Serving Both Adults and Children/Adolescents
  • 6 State Hospitals

• Census Groups: Based upon average daily census
  • 0-10
  • 11-19
  • 20+

• Capacity Groups:
  • Small: < 20 Beds
  • Medium: 20 to 39 Beds
  • Large: 40+ Beds
Calculations

• Allow comparisons across organizations of different sizes

• Seclusion/Restraints per 1000 Patient Day =
  \[
  \frac{\text{Total # of Seclusions/Restraints}}{\text{Total # of Patient Days}} \times 1000
  \]

• Avg. Duration per Seclusion/Restraint =
  \[
  \frac{\text{Total Minutes of Sec/Restraint}}{\text{Total # of Sec/Restraints}} \times 1000
  \]
Geographical Regions

Northwest
- Lucas
- Ottawa
- Sandusky
- Seneca
- Erie

Northcoast
- Cuyahoga
- Geauga
- Lake
- Ashtabula
- Lake
- Ashtabula

Heartland
- Cuyahoga
- Geauga
- Summit
- Stark
- Tuscarawas

Appalachia
- Pike
- Meigs
- Gallia

Twin Valley/Central
- Union
- Delaware
- Knox

Northwest
- Lucas
- Ottawa
- Sandusky
- Seneca
- Erie

Northcoast
- Cuyahoga
- Geauga
- Lake
- Ashtabula
- Lake
- Ashtabula

Heartland
- Cuyahoga
- Geauga
- Summit
- Stark
- Tuscarawas

Appalachia
- Pike
- Meigs
- Gallia
Inpatient Providers
Serving Adults
Adult-Serving Hospitals by Geographic Area January-June 2014
(N = 72)

Northeast, 19, 26%
Heartland, 7, 10%
Southeast, 9, 12%
Southwest, 13, 18%
Central Ohio, 9, 13%
Northwest, 15, 21%
Average Number of Patient Days per Month: Private vs. State

- Private
- Ohio MHAS
Private hospitals by Capacity (Number of Licensed Beds)

- Small: < 20 beds (40%)
- Medium: 20-39 beds (36%)
- Large: 40+ beds (24%)
Average Number of Patient Days per Month among Small Adult Facilities (n = 29)
Average Number of Patient Days per Month among Medium-Sized Adult Facilities (n = 17)
Average Number of Patient Days Per Month among Large Adult Facilities (n = 26)
Occupancy

• Definition:

\[
\text{Total Number of Patient days} \div (\text{Number of licensed beds} \times \text{Number of Calendar Days})
\]

• Mean: 65.03%  sd: 21.08

• Occupancy by category:
  • Less than 50%: n = 13, 18.3% of sample
  • 50 to 75%: n = 34, 47.9% of sample
  • 75% and Above: n = 24, 33.8% of sample
Occupancy by Capacity Group

- Small: < 20 beds
  - Occupancy 75%+: 24.1%
  - Occupancy 50-75%: 55.2%
  - Occupancy <50%: 20.7%

- Medium: 20-39 beds
  - Occupancy 75%+: 38.5%
  - Occupancy 50-75%: 46.2%
  - Occupancy <50%: 15.4%

- Large: 40+ beds
  - Occupancy 75%+: 43.8%
  - Occupancy 50-75%: 37.5%
  - Occupancy <50%: 18.8%
Average Daily Census

Formula:

\[
\frac{\text{Total Number of Patient days}}{\text{Number of Calendar Days}}
\]

- Min: 0
- Max: 260.41
- Mean: 32.46
- Sd: 47.41
Average Daily Census: Private Facilities

- 0-10 per day, 32%
- 11-19 per day, 34%
- 20+ per day, 34%
### Utilization of Seclusion and Restraint

<table>
<thead>
<tr>
<th>January to June, 2013</th>
<th>n</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hospitals that reported Seclusions</td>
<td>51</td>
</tr>
<tr>
<td>Hospitals that reported Physical Restraints</td>
<td>35</td>
</tr>
<tr>
<td>Hospitals that reported Mechanical Restraints</td>
<td>54</td>
</tr>
<tr>
<td>All Adult Hospitals</td>
<td>72</td>
</tr>
</tbody>
</table>
Percentage of Inpatient Providers Reporting Seclusions and Restraints

- Used Seclusion 18+: 69.9%
- Used Mechanical Restraint 18+: 74.0%
- Used Physical Restraint 18+: 47.9%
Definition of Seclusion

• Staff intervention that involved the involuntary confinement of a patient alone in a room where the patient is physically prevented from leaving.
Average Number of Seclusions per 1,000 Patient Days among Small Adult Facilities (n = 29)

Month | Average Number of Seclusions
--- | ---
January | 1.05
February | 1.04
March | 1.40
April | 1.03
May | 1.28
June | 0.88

UCL: 1.847
CL: 1.114
LCL: 0.380
Average Number of Seclusions per 1,000 Patient Days among Medium-Sized Adult Facilities (n = 17)
Standard Deviation: Number of Seclusions per 1,000 Client Days among Medium-Sized Adult Facilities (n = 17)
Average Number of Seclusions per 1,000 Patient Days among Large Adult Facilities (n = 29)
Number of Adult Seclusions per 1000 Patient Days by Region

- Northeast: 7.46
- Heartland: 1.04
- Southeast: 0.73
- Southwest: 3.24
- Central Ohio: 2.29
- Northwest: 144.99
Number of Adult Seclusions Jan-June per 1000 Days by Census Group

Average Daily Census

- Census 0-10: 1.26
- Census 11-20: 3.68
- Census 20+: 5.75
Number of Adult Seclusions per 1000 days by Capacity Group

- Small: 19 or Less - 1.04
- Medium: 20 to 39 Beds - 4.23
- Large: 40+ Beds - 7.18
Number of Seclusions per 1,000 Patient Days: Private vs. State Hospitals

- **OhioMHAS**
- **Private Hospitals Total**

![Graph showing the number of seclusions per 1,000 patient days from January to June. The graph compares OhioMHAS and Private Hospitals Total, with March having the highest number of seclusions at 4.74 per 1,000 patient days.]
Duration of Seclusion in Minutes: 6-Month Averages by Region

- Northeast: 349.15
- Heartland: 392.07
- Southwest: 116.08
- Central Ohio: 245.91
- Northwest: 146.65
- Private Total: 258.49
- OhioMHAS: 57.82
Average Length of Seclusions in Minutes by Census Group

- Census 0-10: 405.93 minutes
- Census 11-20: 335.93 minutes
- Census 20+: 141.81 minutes
Average Length of Seclusions in Minutes by Capacity Group

- Small: ≤ 20 Beds - 211.2143 minutes
- Medium: 20 to 39 Beds - 328.8096 minutes
- Large: 40+ Beds - 174.0015 minutes
Physical Restraint

• Definition: Also known as manual restraint, refers to a staff intervention that involved any method of physically/manually restricting a patient’s freedom of movement, physical activity, or normal use of his or her own body without the use of Mechanical Restraint devices.
Average Number of Physical Restraints per 1,000 Patient Days, by Region

- Northeast: 1.62
- Heartland: 1.07
- Southeast: 0.82
- Southwest: 1.56
- Central Ohio: 2.36
- Northwest: 0.61
Average Number of Physical Restraints/Transitional Holds Per Month among Adult Facilities by Facility Size
Average Number of Physical Restraints and Transitional Holds per 1,000 Patient Days among Adults in Small Facilities

Month | Number of Restraints and Holds
--- | ---
January | 1.18
February | 0.23
March | 0.35
April | 0.26
May | 1.87
June | 0.815

UCL: 2.751
CL: 0.815
LCL: -1.121
Average Number of Physical Restraints/Transitional Holds per 1,000 Patient Days among Adults in Medium-Sized Facilities
Average Number of Physical Restraints and Transitional Holds per 1,000 Patient Days among Adults within Large Facilities

- **UCL**: 3.648
- **CL**: 1.988
- **LCL**: 0.328

### Graph

- **January**: 2.02
- **February**: 2.50
- **March**: 1.32
- **April**: 2.27
- **May**: 2.06
- **June**: 1.76

**Month**
- January
- February
- March
- April
- May
- June

**Number of Restraints/Holds**
- 0.00
- 0.50
- 1.00
- 1.50
- 2.00
- 2.50
- 3.00
- 3.50
- 4.00
Number of Adult Physical Restraints per 1000 Patient Days by Census Group

- Census 0-10: 1.07
- Census 11-20: 1.34
- Census 20+: 1.73
Number of Adult Physical Restraints per 1,000 Patient Days by Capacity

- Small: < 20 Beds: 0.81
- Medium: 20 to 39 Beds: 1.66
- Large: 40+ Beds: 1.97
Frequency of Adult Physical Restraints per 1,000 Patient Days

Graph showing the frequency of adult physical restraints per 1,000 patient days for January to June. The graph includes data for Private Total and OhioMHAS. The highest frequency is observed in May for OhioMHAS, with values ranging from 0.75 to 3.04. The lowest frequency is observed in February and June for both categories, with values ranging from 0.00 to 2.01.
Average Duration of Physical Restraints in Minutes

January  February  March  April  May  June

Private
OhioMHAS
6-month Average Duration of Adult Physical Restraints per 1,000 Patient Days by Capacity Group
Average Duration of Physical Restraints in Minutes: 6-month Average by Geographical Area

- Northeast: 3.28 minutes
- Heartland: 3.87 minutes
- Southeast: 4.56 minutes
- Southwest: 2.26 minutes
- Central Ohio: 8.29 minutes
- Northwest: 4.93 minutes
- ODMH Hospitals: 2.78 minutes
Mechanical Restraint

• Definition:

   A staff intervention that involves any method of restricting a patient’s freedom of movement, physical activity, or normal use of his or her own body, using an appliance or device manufactured for this purpose.
Number of Adult Mechanical Restraints per 1000 patient days:
6-month average by Geographical Area

- Northeast: 4.8573
- Heartland: .3729
- Southeast: .7978
- Southwest: 2.2578
- Central Ohio: 1.1734
- Northwest: 1.9755
Average Number of Mechanical Restraints per 1,000 Bed Days

- **Private Total**
- **OhioMHAS**

<table>
<thead>
<tr>
<th>Month</th>
<th>January</th>
<th>February</th>
<th>March</th>
<th>April</th>
<th>May</th>
<th>June</th>
</tr>
</thead>
<tbody>
<tr>
<td>Value</td>
<td>2.695</td>
<td>2.849</td>
<td>3.653</td>
<td>2.9211</td>
<td>2.873</td>
<td>1.7041</td>
</tr>
</tbody>
</table>

Graph showing the average number of mechanical restraints per 1,000 bed days.
Duration of Adult Mechanical Restraints: 6-month average by Geographical Area

- Northeast: 333.89
- Heartland: 320.90
- Southeast: 261.04
- Southwest: 183.57
- Central Ohio: 120.89
- Northwest: 433.81
- OhioMHAS: 69.43
- Private Total: 282.85
Inpatient Providers
Serving Children and Adolescents
Number of Hospitals Serving Children or Youth by Geographical Area

- **Northeast**
  - 5 hospitals, 33.33%
- **Heartland**
  - 2 hospitals, 13.33%
- **Southeast**
  - 1 hospital, 6.67%
- **Southwest**
  - 2 hospitals, 13.33%
- **Central Ohio**
  - 2 hospitals, 13.33%
- **Northwest**
  - 3 hospitals, 20.00%
Child/Adolescent Agencies: Average Total Patient Days per Month (n = 15)
Child/Adolescent Providers

- N = 15
- All 15 reported using some form of S/R this period.
- Average Daily Census
  - Min: .04
  - Max: 76.15
  - Mean: 15.28
  - Std. Dev.: 19.51
- Occupancy Rates
  - Min: .33
  - Max: 507.68
  - Mean: 82.97
Child/Adolescent Hospitals that Used Seclusion: Summary

- For those who reported Seclusion Use:
  - Average number of seclusions per 1,000 patient days = 275.92
  - Average Duration among Hospitals who used seclusion = 51.09 minutes per use. Min = 18.67, Max = 93.69

- Avg. Number of Kids in Seclusion during reporting period
  - Mean = 275.93
  - Min = 1.43
  - Max = 2625
Reported Use of Seclusion among Child/Adolescent Providers

- Used Seclusion: 10
- Did not use Seclusion: 5
Duration of Seclusions and Restraints (Minutes)

N varies based upon number of S/R cases reported each month. No cases of seclusion were reported in June.
All Inpatient Providers
Illnesses and Injuries
Average Number of Restraint-related Injuries Requiring First Aid, by Month
Average Number of Injuries per Month Requiring Emergency/Unplanned Medical Interventions