

**Report to the Emergency Involuntary  
Procedures Review Committee  
September 8, 2023**

**Data Review and Analysis  
April - June  
2023**



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Additional data are available at

<http://app.resultsscorecard.com/Scorecard/Embed/10396>

## Definitions

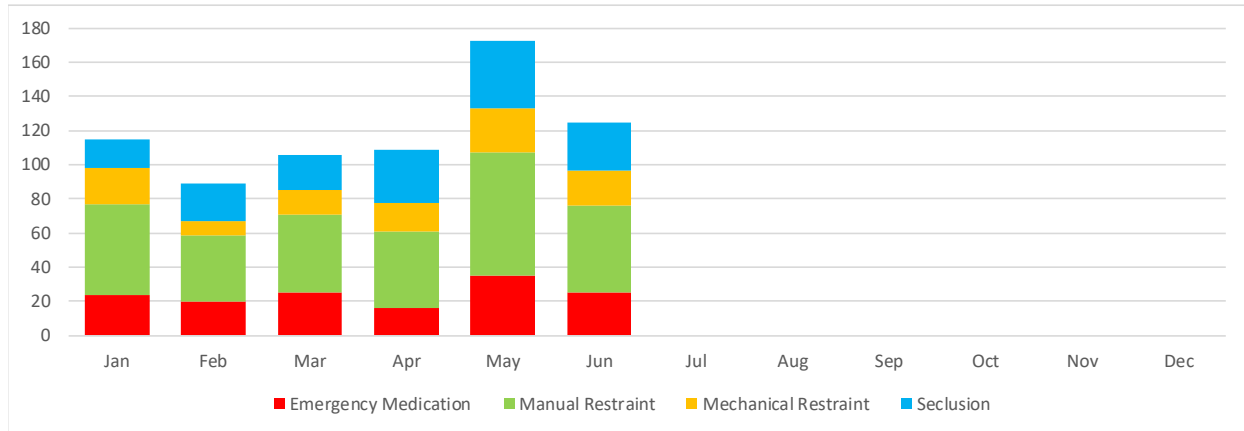
Vermont Designated Hospitals agree to follow Centers for Medicare and Medicaid Services (CMS) definitions for seclusion, restraint and emergency involuntary medication. For reporting purposes to DMH, the following definitions are utilized.

|   |  |
|---|--|
| <b>Emergency Involuntary Procedures (EIPs)</b>      | Include instances of restraint, seclusion or emergency involuntary medication.   |
| <b>Restraint</b>                                    | A <b>restraint</b> includes any manual method, physical or mechanical device, material or equipment that immobilizes or reduces the ability of a patient to move his or her arms, legs, body, or head freely (CMS 482.13(e)(1)(i)(A)).   |
| <b>Seclusion</b>                                    | <b>Seclusion</b> means the involuntary confinement of a patient alone in a room or an area from which the patient is physically or otherwise prevented from leaving. Seclusion shall be used only for the management of violent or self-destructive behavior that poses an imminent risk of serious bodily harm to the patient, staff member, or others. (CMS 482.13(e)(1)(ii)).   |
| <b>Emergency Involuntary Medication</b>             | A restraint is also defined as a drug or medicine used as a restriction to manage the patient’s behavior or restrict the patient’s freedom of movement, and is not standard treatment or dosage for the patient’s condition (CMS 482.13(e)(1)(i)(B)).  |
| <b>Episodes of Emergency Involuntary Procedures</b> | When clinically indicated, emergency involuntary procedures may be used in combination when a single procedure has not been effective in protecting the safety of the patient, staff, or others. When the simultaneous use of emergency involuntary procedures is used, there must be adequate documentation that justifies the decision for combined use. (CMS 482.13(e)(15)). In the following report, the use of emergency involuntary procedures in combination is referred to as an episode. Episodes can include any combination of seclusion, restraint, or emergency involuntary medication. |

## Data Reports

### Aggregate Procedures: All Units by Type of Procedure

#### Aggregate Emergency Involuntary Procedures for **Involuntary Patients** **Psychiatric Units** by Type of Procedure 2023

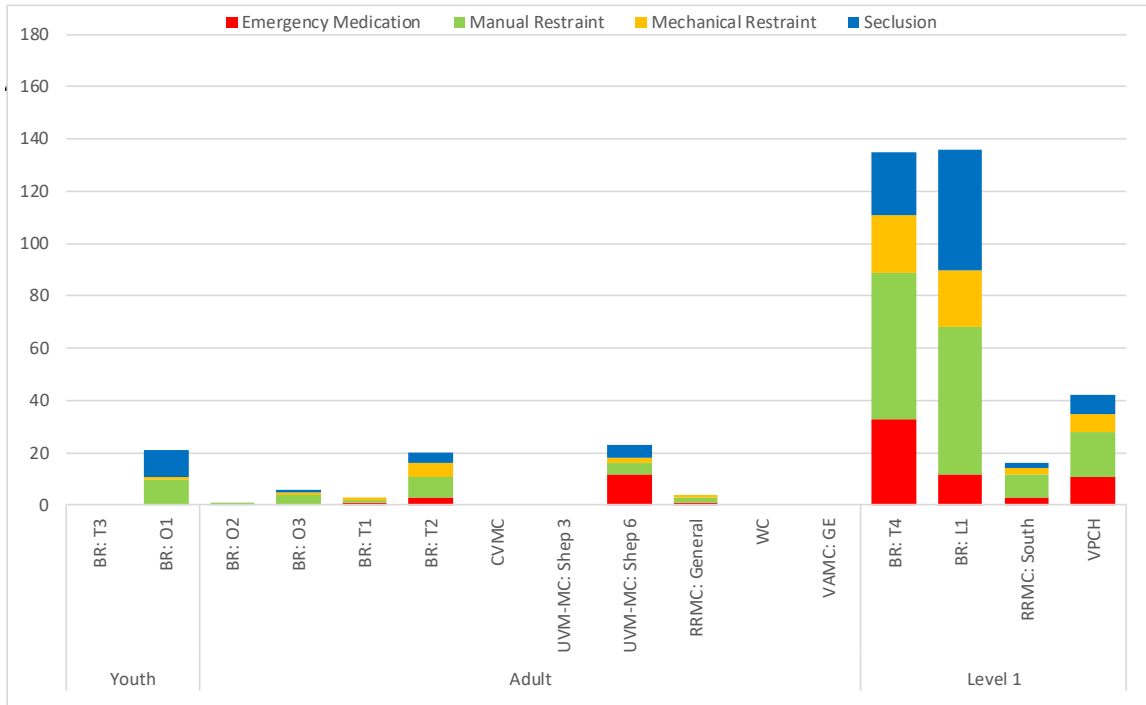


|                          | 2023       |            |            |            |            |            |            |            |            |            |            |            |              |
|--------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|--------------|
| <u>Type of Procedure</u> | <u>Jan</u> | <u>Feb</u> | <u>Mar</u> | <u>Apr</u> | <u>May</u> | <u>Jun</u> | <u>Jul</u> | <u>Aug</u> | <u>Sep</u> | <u>Oct</u> | <u>Nov</u> | <u>Dec</u> | <u>Trend</u> |
| Emergency Medication     | 24         | 20         | 25         | 16         | 35         | 25         |            |            |            |            |            |            | ■            |
| Manual Restraint         | 53         | 39         | 46         | 45         | 72         | 51         |            |            |            |            |            |            | ■            |
| Mechanical Restraint     | 21         | 8          | 14         | 17         | 26         | 21         |            |            |            |            |            |            | ■            |
| Seclusion                | 17         | 22         | 21         | 31         | 40         | 28         |            |            |            |            |            |            | ■            |
| <b>Total</b>             | <b>115</b> | <b>89</b>  | <b>106</b> | <b>109</b> | <b>173</b> | <b>125</b> |            |            |            |            |            |            | ■            |

Analysis conducted by the Vermont Department of Mental Health Research and Statistics Unit from data maintained by DMH Quality Management. Data are submitted by Designated Hospitals to DMH in compliance with department requests for submittal of Certificates of Need (CON) following emergency involuntary procedures. Procedures for seclusion, restraint, and emergency medication meet criteria defined by the Centers for Medicare and Medicaid Services for clients involuntarily admitted to Vermont Designated Hospitals.

## Aggregate Procedures: Type of Procedure by Unit

### Aggregate Emergency Involuntary Procedures for Involuntary Patients Adult and Youth Psychiatric Units by Type of Procedure April - June 2023



|              |                    | Emergency Medication | Manual Restraint | Mechanical Restraint | Seclusion | Total Procedures | Total Episodes | Total Time    |
|--------------|--------------------|----------------------|------------------|----------------------|-----------|------------------|----------------|---------------|
| Youth        | BR: Tyler 3        | 0                    | 0                | 0                    | 0         | 0                | 0              | 0:00          |
|              | BR: Osgood 1       | 0                    | 10               | 1                    | 10        | 21               | 11             | 6:37          |
| Adult        | BR: Osgood 2       | 0                    | 1                | 0                    | 0         | 1                | 0              | 0:01          |
|              | BR: Osgood 3       | 0                    | 4                | 1                    | 1         | 6                | 4              | 1:36          |
|              | BR: Tyler 1        | 1                    | 1                | 1                    | 0         | 3                | 1              | 1:01          |
|              | BR: Tyler 2        | 3                    | 8                | 5                    | 4         | 20               | 10             | 12:57         |
|              | CVMC               | 0                    | 0                | 0                    | 0         | 0                | 0              | 0:00          |
|              | UVM-MC: Shep 3     | 0                    | 0                | 0                    | 0         | 0                | 0              | 0:00          |
|              | UVM-MC: Shep 6     | 12                   | 4                | 2                    | 5         | 23               | 12             | 13:57         |
|              | RRMCM: General     | 1                    | 2                | 1                    | 0         | 4                | 2              | 0:54          |
|              | WC                 | 0                    | 0                | 0                    | 0         | 0                | 0              | 0:00          |
| VAMC: GE     | 0                  | 0                    | 0                | 0                    | 0         | 0                | 0:00           |               |
| Level 1      | BR: Tyler 4        | 33                   | 56               | 22                   | 24        | 135              | 51             | 61:51         |
|              | BR: Linden Lodge 1 | 12                   | 56               | 22                   | 46        | 136              | 67             | 91:52         |
|              | RRMCM: South       | 3                    | 9                | 2                    | 2         | 16               | 11             | 5:16          |
|              | VPCH               | 11                   | 17               | 7                    | 7         | 42               | 17             | 19:46         |
| <b>Total</b> |                    | <b>76</b>            | <b>168</b>       | <b>64</b>            | <b>99</b> | <b>407</b>       | <b>186</b>     | <b>215:48</b> |

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## Emergency Involuntary Procedures Rates

### **Analysis:**

Each of the seven designated hospitals sends raw data to DMH in the form of a Certificate of Need (CON) for every EIP conducted on involuntarily admitted patients. Data is abstracted from the CONs and used to calculate the number of hours that involuntary patients were in seclusion or restraint for every 1,000 patient hours on each hospital unit where EIPs could potentially have been administered. (See the data visualization on pg. 6.)

However, because Certificates of Need are only sent to DMH for involuntarily admitted patients (i.e. patients in the care and custody of the DMH Commissioner), this report also includes aggregate data sent to DMH directly from each hospital that includes the number of hours that voluntary **and** involuntary patients spent in seclusion and restraint. Hospitals have conducted preliminary analyses on this data before sending it to DMH. This data cannot be broken out by hospital unit, but is used to provide the overall seclusion and restraint rate for each hospital. (See the data visualization on pg. 7.)

### **Methodological Note: Rate calculation defined**

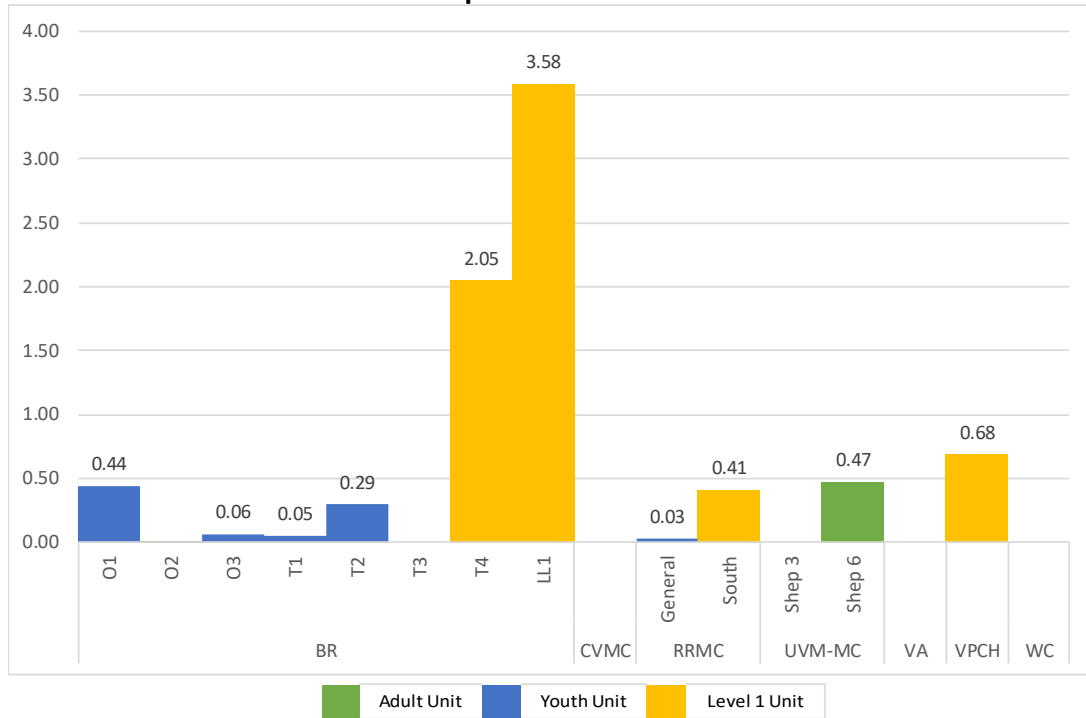
**Numerator:** Total number of hours that psychiatric patients were in seclusion or restraint (restraint includes all manual and mechanical EIPs)

**Denominator:** Total patient hours on Level 1 units divided by 1,000 patient hours

$$\text{Rate} = \frac{(\text{total hours of seclusion and restraint})}{\frac{(\text{total patient hours})}{1,000}} \quad \text{-or-} \quad \text{Rate} = 1,000 * \frac{(\text{total hours of seclusion and restraint})}{(\text{total patient hours})}$$

## Combined Rate of Seclusion and Restraint per 1,000 Patient Hours by Hospital Unit

### Involuntary Patients Only April - June 2023

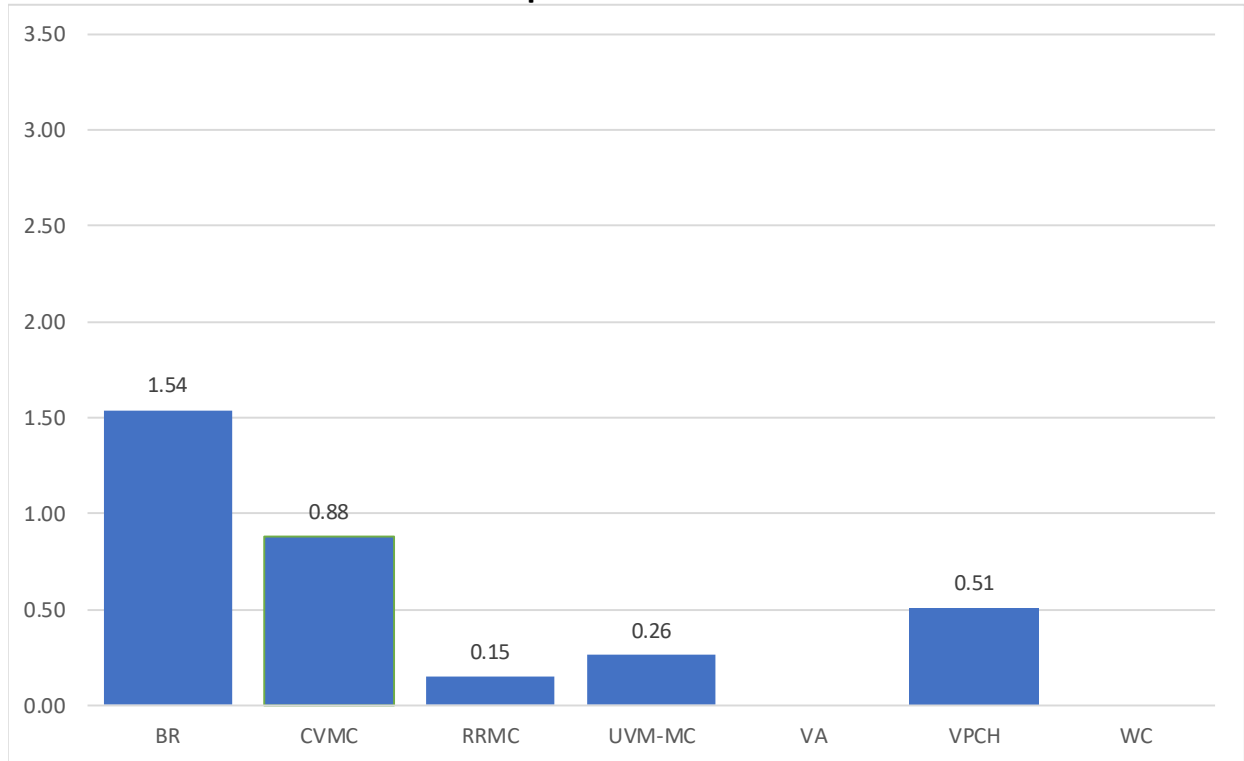


| Facility | Unit    | Total Patient Hours | Total Time Restraint & Seclusion CY2023 Q2 | Rate of Seclusion & Restraint per 1,000 Patient Hours |          |
|----------|---------|---------------------|--|---|----------|
|          |         |                     |  | Unit  | Facility |
| BR       | BR O1   | 15,072              | 6:37                                       | 0.44  | 0.94     |
|          | BR O2   | 28,200              | 0:01                                       | 0.00  |          |
|          | BR O3   | 24,696              | 1:36                                       | 0.06  |          |
|          | BR T1   | 20,232              | 1:01                                       | 0.05  |          |
|          | BR T2   | 43,920              | 12:57                                      | 0.29  |          |
|          | BR T3   | 0                   | 0:00                                       | 0.00  |          |
|          | BR T4   | 30,216              | 61:51                                      | 2.05  |          |
|          | BR LL1  | 25,632              | 91:52                                      | 3.58  |          |
| CVMC     | CVMC    | 19,344              | 0:00                                       | 0.00  | 0.00     |
| RRMC     | General | 33,264              | 0:54                                       | 0.03  | 0.13     |
|          | South   | 12,864              | 5:16                                       | 0.41  |          |
| UVM      | Shep 3  | 23,688              | 0:00                                       | 0.00  | 0.26     |
|          | Shep 6  | 29,400              | 13:57                                      | 0.47  |          |
| VAWRJ    | VAWRJ   | 16,416              | 0:00                                       | 0.00  | 0.00     |
| VPCH     | VPCH    | 28,968              | 19:46                                      | 0.68  | 0.68     |
| WC       | WC      | 15,816              | 0:00                                       | 0.00  | 0.00     |

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## Combined Rate of Seclusion and Restraint per 1,000 Patient Hours by Hospital

### Involuntary and Voluntary Patients Combined April - June 2023



| Facility | Total Patient Hours | Total Time: Restraint & Seclusion CY2023 Q2 | Rate of Seclusion & Restraint per 1,000 Patient Hours |
|----------|---------------------|---|---|
| BR       | 187,968             | 289.22                                      | 1.54  |
| CVMC     | 19,344              | 17.00                                       | 0.88  |
| RRMC     | 46,128              | 7.05  | 0.15  |
| UVM      | 53,088              | 13.69                                       | 0.26  |
| VAWRJ    | 16,416              | 0.00  | 0.00  |
| VPCH     | 28,968              | 14.85                                       | 0.51  |
| WC       | 15,816              | 0.00  | 0.00  |

Analysis conducted by the Vermont Department of Mental Health from data maintained by Designated Hospitals.