

Vermont Mental Health Performance Indicator Project
 Agency of Human Services, Department of Health, Division of Mental Health
 108 Cherry Street, Burlington, Vermont 05402

TO: Vermont Mental Health Performance Indicator Project
 Advisory Group and Interested Parties

FROM: John Pandiani and Joan Mongeon

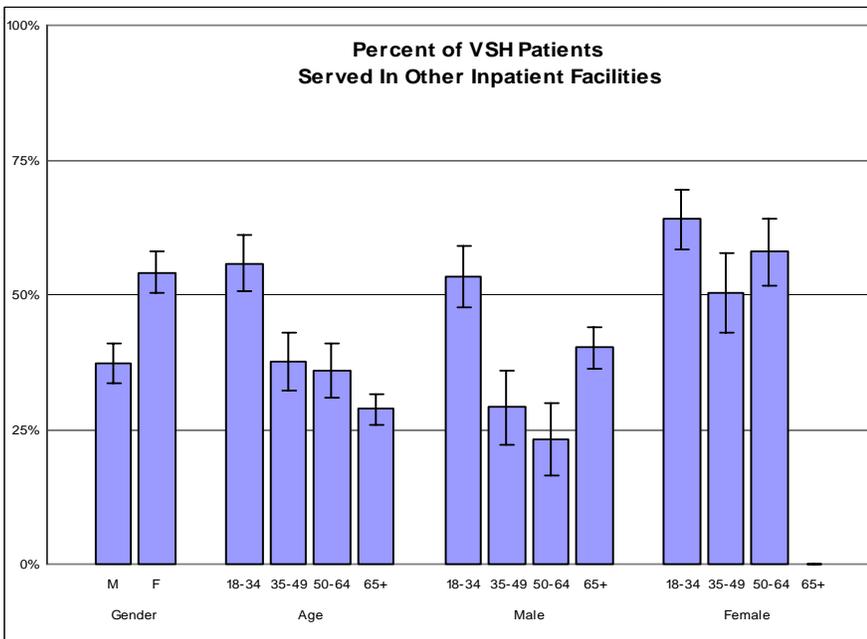
DATE: August 18, 2006

RE: Gender, Age, and VSH Caseload Overlap with Other Inpatient Facilities

This is the third in our series on inpatient behavioral health care utilization. This report follows our recent report that provided an overview of inpatient behavioral health care utilization during 1990 through 2004 (<http://healthvermont.gov/mh/docs/pips/2006/pip060206.pdf>). This week's report provides information on the number of Vermont State Hospital (VSH) patients who also received inpatient behavioral health care in another facility overall and by type of facility during 1990 through 2004. This report also examines the age and gender differences in the use of other hospitals by VSH patients during 2004.

Like the previous reports in this series, this report is based on analysis of extracts from existing databases provided by the Vermont Department of Health, VSH, and the Brattleboro Retreat (Vermont's only private psychiatric hospital). The data provided by the Department of Health were extracted from Vermont's Hospital Discharge Data Set. The extract includes detailed (but de-identified) information regarding all episodes of hospitalization for Vermont residents that occurred in general hospitals and veterans' hospitals in Vermont and surrounding states. Because the data sets used in this analysis do not include unique person identifiers,

Probabilistic Population Estimation was used to determine unduplicated counts of individuals served.



As you will see a total of 101 VSH patients (43% of all VSH patients) also received inpatient psychiatric care in another hospital during 2004. Overall, female VSH patients were more likely than male patients to also be served in another facility (54% vs. 37% respectively). This pattern was true for Vermont general hospitals (47% vs. 33%), for the Brattleboro

Retreat (13% vs. 6%), and for New Hampshire Hospitals (9% vs. 3%). Male VSH patients, however, were more likely than female patients to also be hospitalized at the Veteran's Hospital in White River junction, Vermont (3% vs. 1%).

In terms of age, VSH patients under 35 years of age were the most likely to receive inpatient psychiatric care in another hospital (56%) and VSH patients 65 years of age and older were the least likely to receive inpatient psychiatric care in another hospital (29%). Among age/gender groups, young women were the most likely to have received inpatient psychiatric care in another hospital (64%).

We look forward to your questions, comments and requests for further analysis to pip@VDH.state.vt.us or call 802-863-7249.

2004 VSH Patients Also Served in Other Inpatient Facilities

| | VSH | Served in Other Inpatient Facilities | | Served in Vt General Hospitals | | Served In Brattleboro | | Served by NH Hosp | | Served by VA-WRJ | |
|--------|-----|--------------------------------------|----------|--------------------------------|----------|-----------------------|-----------|-------------------|----------|------------------|---------|
| | # | # | % | # | % | # | % | # | % | # | % |
| Total | 237 | 101 ± 7 | 43% ± 3% | 89 ± 6 | 38% ± 3% | 19 ± 3 | 8% ± 1% | 12 ± 1 | 5% ± 0% | 5 ± 1 | 2% ± 0% |
| Gender | | | | | | | | | | | |
| Male | 159 | 59 ± 6 | 37% ± 4% | 52 ± 5 | 33% ± 3% | 9 ± 2 | 6% ± 1% | 5 ± 1 | 3% ± 1% | 4 ± 1 | 3% ± 1% |
| Female | 78 | 42 ± 3 | 54% ± 4% | 36 ± 3 | 47% ± 4% | 10 ± 1 | 13% ± 1% | 7 ± 1 | 9% ± 1% | 1 ± 0 | 1% ± 0% |
| Age | | | | | | | | | | | |
| 18-34 | 77 | 43 ± 4 | 56% ± 5% | 37 ± 3 | 49% ± 4% | 0 ± 0 | 0% ± 0% | 6 ± 1 | 8% ± 1% | 0 ± 0 | 0% ± 0% |
| 35-49 | 93 | 35 ± 5 | 38% ± 5% | 31 ± 4 | 34% ± 4% | 10 ± 2 | 11% ± 2% | 3 ± 1 | 3% ± 1% | 3 ± 1 | 3% ± 1% |
| 50-64 | 60 | 22 ± 3 | 36% ± 5% | 18 ± 2 | 30% ± 4% | 8 ± 1 | 13% ± 2% | 3 ± 1 | 5% ± 1% | 2 ± 1 | 3% ± 2% |
| 65+ | 7 | 2 ± 0 | 29% ± 3% | 2 ± 0 | 29% ± 3% | 1 ± 0 | 14% ± 4% | 0 ± 0 | 0% ± 0% | 0 ± 0 | 0% ± 0% |
| Male | | | | | | | | | | | |
| 18-34 | 60 | 32 ± 3 | 53% ± 6% | 28 ± 3 | 46% ± 5% | 0 ± 0 | 0% ± 0% | 4 ± 1 | 7% ± 1% | 0 ± 0 | 0% ± 0% |
| 35-49 | 56 | 16 ± 4 | 29% ± 7% | 14 ± 3 | 26% ± 5% | 9 ± 2 | 15% ± 4% | 1 ± 1 | 2% ± 2% | 2 ± 1 | 4% ± 1% |
| 50-64 | 38 | 9 ± 3 | 23% ± 7% | 8 ± 2 | 22% ± 5% | 1 ± 1 | 2% ± 2% | 0 ± 0 | 0% ± 0% | 2 ± 1 | 5% ± 3% |
| 65+ | 5 | 2 ± 0 | 40% ± 4% | 2 ± 0 | 40% ± 4% | 0 ± 0 | 0% ± 0% | 0 ± 0 | 0% ± 0% | 0 ± 0 | 0% ± 0% |
| Female | | | | | | | | | | | |
| 18-34 | 17 | 11 ± 1 | 64% ± 6% | 10 ± 1 | 58% ± 5% | 0 ± 0 | 0% ± 0% | 2 ± 0 | 12% ± 1% | 0 ± 0 | 0% ± 0% |
| 35-49 | 37 | 19 ± 3 | 50% ± 7% | 17 ± 3 | 46% ± 7% | 2 ± 0 | 5% ± 1% | 2 ± 1 | 5% ± 2% | 1 ± 0 | 3% ± 0% |
| 50-64 | 22 | 13 ± 1 | 58% ± 6% | 10 ± 1 | 44% ± 6% | 7 ± 1 | 31% ± 5% | 3 ± 1 | 14% ± 3% | 0 ± 0 | 0% ± 0% |
| 65+ | 2 | 0 ± 0 | 0% ± 0% | 0 ± 0 | 0% ± 0% | 1 ± 0 | 50% ± 14% | 0 ± 0 | 0% ± 0% | 0 ± 0 | 0% ± 0% |

Information is derived from the Hospital Discharge Data Set maintained by the Vermont Health Department, and database extracts provided by the Brattleboro Retreat and Vermont State Hospital. Served in Other inpatient facilities includes other VT and NH inpatient facilities. <http://healthvermont.gov/mh/docs/res-eval/documents/2004inpatientbook.pdf>

The State of Vermont does not have unique client identifiers across service providers. For this reason, Probabilistic Population Estimation has been used to provide unduplicated counts of people served (with 95% confidence intervals). Actual person counts are available for the Brattlebor Retreat and the Vermont State Hospital.