

Vermont Mental Health Performance Indicator Project

Agency of Human Services, Department of Mental Health
103 South Main Street, Waterbury, Vermont 05671

MEMORANDUM

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

FROM: John Pandiani and Walter Ochs

DATE: February 18, 2011

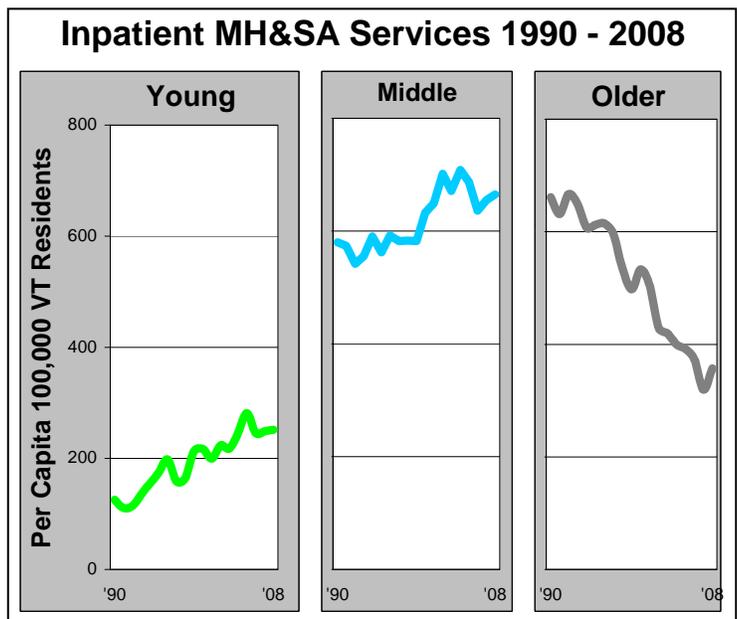
RE: Change in Inpatient MH&SA Age/Gender Utilization Rates: 1990-2008

This brief report provides information regarding change in per capita utilization of inpatient mental health and addiction services by Vermont residents in different demographic groups during 1990-2008. This report was prepared in response to questions following our February 11 PIP from a number of readers seeking more information regarding the substantial increase in overall per capita utilization of inpatient services during this period.

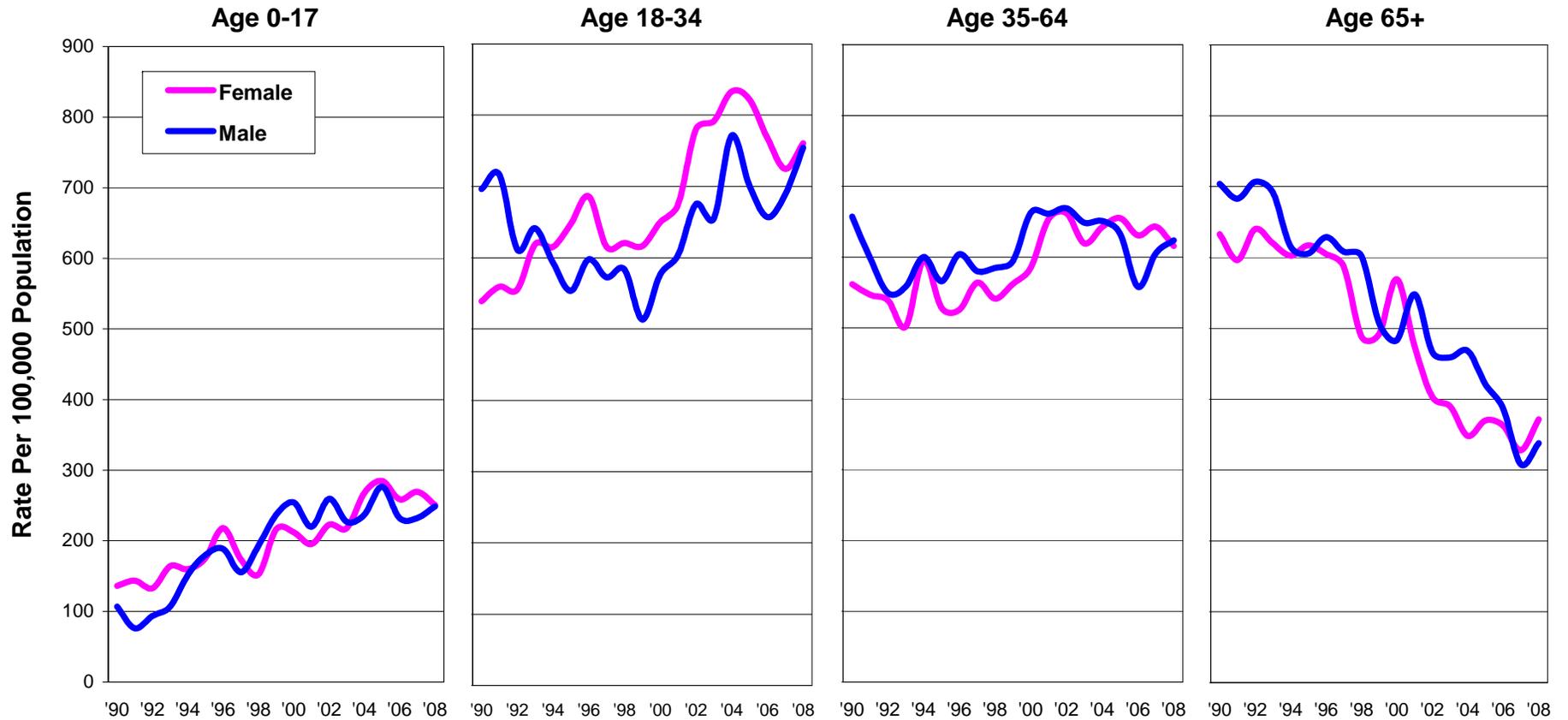
This report (like the previous report) is based on analysis of anonymous extracts from existing databases. Because the data sets used in this analysis do not include unique person identifiers, unduplicated counts of individuals served are estimates based on Probabilistic Population Estimation.

As you will see, there was substantial variation among age groups in the amount and direction of change in the proportion of Vermont residents with inpatient mental health and addiction services during the study period. Utilization by children and adolescents less than 18 years of age increased dramatically, utilization by adults aged 18-64 increased slightly, and utilization by older adults (age 65+) decreased dramatically. Detailed tables and graphs are attached.

We look forward to your interpretations of these findings and your suggestions for further analysis of this rich data set to pip@ahs.state.vt.us or 802-241-4049.



Vermont Residents with Inpatient Mental Health and Substance Abuse Services Per Capita By Age and Gender: CY1990 - CY2008



Analysis Conducted by the Vermont Mental Health Performance Indicator Project

Analysis includes hospitalizations in all Vermont Hospitals and in General Hospitals in New Hampshire with a primary diagnosis of Mental Health or Substance Abuse. Population figures used to calculate rates were obtained from the 1990 through 2008 Vital Statistics Reports published by the Vermont Department of Health. 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).

Vermont Residents with Inpatient Mental Health and Substance Abuse Services Per Capita By Age and Gender: CY1990 - CY2008

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Total	473 ± 3	463 ± 3	449 ± 3	461 ± 3	484 ± 3	472 ± 3	497 ± 3	480 ± 3	474 ± 3	482 ± 3	519 ± 4	519 ± 4	553 ± 4	537 ± 4	567 ± 4	561 ± 4	518 ± 4	523 ± 4	536 ± 4
Gender																			
Female	462 ± 4	460 ± 4	460 ± 4	468 ± 4	498 ± 5	486 ± 5	502 ± 5	488 ± 5	461 ± 5	483 ± 5	510 ± 5	524 ± 5	548 ± 5	536 ± 5	560 ± 6	573 ± 6	543 ± 5	536 ± 5	535 ± 5
Male	485 ± 5	467 ± 5	437 ± 4	455 ± 5	469 ± 5	457 ± 5	492 ± 5	471 ± 5	489 ± 5	480 ± 5	529 ± 5	515 ± 5	557 ± 6	538 ± 5	574 ± 6	549 ± 5	492 ± 5	510 ± 5	537 ± 5
Age																			
0-17	125 ± 3	111 ± 3	114 ± 3	135 ± 3	155 ± 3	175 ± 4	198 ± 4	158 ± 3	164 ± 3	213 ± 4	217 ± 4	199 ± 4	223 ± 4	217 ± 4	246 ± 5	281 ± 5	245 ± 5	249 ± 5	252 ± 5
18-34	544 ± 7	574 ± 8	538 ± 7	592 ± 8	578 ± 8	586 ± 8	636 ± 9	599 ± 8	618 ± 8	590 ± 8	651 ± 9	634 ± 8	773 ± 10	746 ± 10	836 ± 11	772 ± 10	721 ± 9	718 ± 9	757 ± 10
35-64	609 ± 7	573 ± 6	544 ± 6	530 ± 6	598 ± 7	547 ± 6	564 ± 6	572 ± 6	563 ± 6	578 ± 6	623 ± 7	658 ± 7	666 ± 7	634 ± 7	647 ± 7	644 ± 7	595 ± 6	625 ± 7	620 ± 6
65+	661 ± 8	631 ± 8	667 ± 8	649 ± 7	608 ± 7	612 ± 7	615 ± 7	596 ± 7	535 ± 6	498 ± 6	533 ± 6	505 ± 6	429 ± 5	419 ± 5	400 ± 5	392 ± 4	373 ± 4	319 ± 4	357 ± 4
Female																			
Age																			
0-17	137 ± 4	144 ± 5	133 ± 4	164 ± 5	160 ± 5	176 ± 5	218 ± 7	174 ± 5	153 ± 5	216 ± 6	212 ± 7	196 ± 6	223 ± 7	218 ± 6	268 ± 8	285 ± 8	259 ± 8	269 ± 8	251 ± 7
18-34	539 ± 10	559 ± 11	555 ± 11	619 ± 12	615 ± 12	647 ± 12	686 ± 13	615 ± 12	621 ± 12	616 ± 12	650 ± 12	675 ± 12	780 ± 15	792 ± 15	833 ± 15	822 ± 15	768 ± 14	725 ± 14	760 ± 14
35-64	562 ± 8	547 ± 8	539 ± 8	502 ± 8	596 ± 9	529 ± 8	526 ± 8	564 ± 9	541 ± 9	562 ± 9	585 ± 9	654 ± 10	662 ± 10	619 ± 9	643 ± 10	655 ± 10	630 ± 9	643 ± 10	616 ± 9
65+	633 ± 10	596 ± 10	640 ± 10	620 ± 9	603 ± 9	617 ± 10	605 ± 9	587 ± 9	488 ± 7	492 ± 8	569 ± 9	474 ± 7	403 ± 6	390 ± 6	348 ± 6	370 ± 6	363 ± 6	328 ± 5	372 ± 6
Male																			
Age																			
0-17	107 ± 3	76 ± 2	94 ± 3	107 ± 3	152 ± 4	180 ± 5	189 ± 5	155 ± 5	193 ± 5	237 ± 6	254 ± 6	220 ± 5	260 ± 6	227 ± 6	237 ± 6	277 ± 7	232 ± 6	232 ± 5	249 ± 6
18-34	696 ± 13	717 ± 14	612 ± 12	641 ± 12	593 ± 11	554 ± 11	598 ± 11	572 ± 11	584 ± 11	513 ± 10	576 ± 11	604 ± 11	675 ± 13	655 ± 12	772 ± 14	701 ± 13	657 ± 12	689 ± 13	754 ± 14
35-64	657 ± 10	599 ± 9	549 ± 8	558 ± 9	600 ± 9	566 ± 9	604 ± 10	580 ± 9	585 ± 9	594 ± 9	663 ± 10	661 ± 10	669 ± 10	648 ± 10	651 ± 10	633 ± 9	558 ± 8	606 ± 9	624 ± 9
65+	704 ± 12	683 ± 12	707 ± 12	692 ± 12	615 ± 10	605 ± 10	629 ± 10	608 ± 10	602 ± 10	507 ± 8	483 ± 8	548 ± 9	467 ± 8	459 ± 8	468 ± 8	421 ± 7	387 ± 6	308 ± 5	338 ± 6

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