#### ASSESSMENT OF OVERALL DATA QUALITY AND COMPLETENESS OREGON 1999 TABLES

Nine tables for each State show the use of mental health and other services by Medicaid beneficiaries with mental health diagnoses in 1999. Enrollment and claims data from the Medicaid Analytic eXtract (MAX) files from the Centers for Medicare & Medicaid Services (CMS) are the source for these analyses. Because Medicaid programs differ across the States, and because administrative data vary in completeness and quality, caveats about the State's data should be considered in interpreting the information contained in these tables.

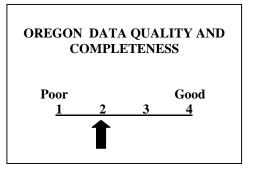
#### **Oregon Data Comments**

**Diagnosis Codes:** Diagnosis coding on claims was relatively complete, with no known quality problems.

**Long-term Care:** There were no crossover long-term-care claims, so total expenditures are slightly understated.

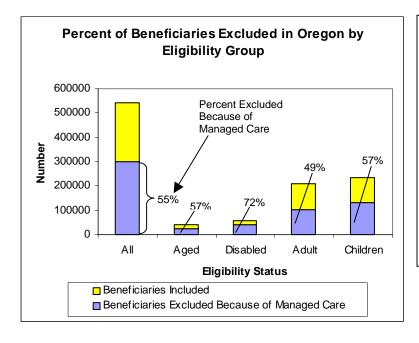
**Eligibility Group:** A very small number of individuals (approximately 250) were reported to an invalid eligibility group; these individuals are not included in sections of tables that report on eligibility group (e.g., disabled, adult, child).

**Inpatient Days:** Oregon's inpatient crossover claims rarely included covered days. This causes inpatient hospital stays for groups of Medicaid beneficiaries that include a high proportion of dual eligibles (most aged and many disabled beneficiaries) to average "0" days in length, and explains the other low numbers that appear for some groups on Table 4.



\*The measure shown above reflects both managed care exclusions and other data issues noted to the left.

#### IMPACT OF MANAGED CARE EXCLUSIONS



Individuals who are enrolled in comprehensive or behavioral capitated programs for all months enrolled are *excluded* from Tables 2 - 9 in the attached set of tables; those enrolled in fee-for-service Medicaid for at least one month are *included* in Tables 2 - 9. The effects of these exclusions vary by state, and, within state, by eligibility group. Oregon's managed care exclusions are shown in the graph on the left.

#### TABLE 1 MEDICAID BENEFICIARIES AND EXPENDITURES TOTAL AND FEE-FOR-SERVICE (FFS) OREGON, CALENDAR YEAR 1999

|                               |  | Benef | iciaries                            |               |                 | Expen | ditures       |     |
|-------------------------------|--|-------|-------------------------------------|---------------|-----------------|-------|---------------|-----|
| Population<br>Characteristics | Total Number Total for-Service FFS One or FS O |       | Percent of<br>Total<br>Expenditures | Total for FFS | Percent for FFS |       |               |     |
| All                           | 543,964  | 100%  | 242,381                             | 45%           | \$1,668,193,402 | 100%  | \$311,439,318 | 19% |
| Age                           |  |       |                                     |               |                 |       |               |     |
| 0-3                           | 75,308   | 14%   | 30,133                              | 40%           | \$135,087,866   | 8%    | \$10,125,850  | 8%  |
| 4-5                           | 29,167   | 5%    | 13,362                              | 46%           | \$34,489,613    | 2%    | \$2,043,460   | 6%  |
| 6-12                          | 81,339   | 15%   | 34,703                              | 43%           | \$133,896,828   | 8%    | \$11,336,565  | 8%  |
| 13-18                         | 52,998   | 10%   | 24,673                              | 47%           | \$115,103,757   | 7%    | \$21,205,900  | 18% |
| 19-21                         | 27,064   | 5%    | 14,657                              | 54%           | \$57,285,624    | 3%    | \$7,673,646   | 13% |
| 22-44                         | 166,662  | 31%   | 79,616                              | 48%           | \$453,284,150   | 27%   | \$79,608,951  | 18% |
| 45-64                         | 69,433   | 13%   | ,                                   | 39%           | \$336,981,882   | 20%   | \$65,616,867  | 19% |
| 65 and older                  | 41,991   | 8%    |                                     | 44%           | \$402,060,893   | 24%   | \$113,828,079 | 28% |
| Gender                        | ,  |       | -,                                  |               | + - //          |       | · -//-        |     |
| Female                        | 304,216  | 56%   | 134,993                             | 44%           | \$979,359,584   | 59%   | \$170,702,222 | 17% |
| Male                          | 239,740  | 44%   | 107,387                             | 45%           | \$688,821,627   | 41%   | \$140,737,032 | 20% |
| Race                          |  |       |                                     |               |                 |       |               |     |
| White                         | 429,108  | 79%   | 189,063                             | 44%           | \$1,398,740,284 | 84%   | \$270,639,926 | 19% |
| Black                         | 23,363   | 4%    | 8,764                               | 38%           | \$73,250,162    | 4%    | \$7,711,014   | 11% |
| Hispanic                      | 59,775   | 11%   | 30,195                              | 51%           | \$99,189,538    | 6%    | \$16,728,979  | 17% |
| American Indian/Alaskan       |  |       |                                     |               |                 |       |               |     |
| Native                        | 11,114   | 2%    | 6,943                               | 62%           | \$31,492,736    | 2%    | \$9,612,632   | 31% |
| Asian/Pacific Islander        | 15,019   | 3%    | 4,917                               | 33%           | \$42,131,764    | 3%    | \$3,459,267   | 8%  |
| Other/Unknown                 | 5,585  | 1%    | 2,499                               | 45%           | \$23,388,918    | 1%    | \$3,287,500   | 14% |
| Dual Status                   |  |       |                                     |               |                 |       |               |     |
| Aged Duals with Full          |  |       |                                     |               |                 |       |               |     |
| Medicaid                      | 36,278   | 7%    | 13,741                              | 38%           | \$383,737,612   | 23%   | \$106,145,877 | 28% |
| Disabled Duals with Full      |  |       |                                     |               |                 |       |               |     |
| Medicaid                      | 21,989   | 4%    | 6,376                               | 29%           | \$221,669,024   | 13%   | \$73,405,244  | 33% |
| Duals with Limited            |  |       |                                     |               |                 |       |               |     |
| Medicaid                      | 7,599  | 1%    | 7,571                               | 100%          | \$18,119,605    | 1%    | \$14,552,177  | 80% |
| Other Duals                   | 1,642  | 0%    | 610                                 | 37%           | \$5,559,131     | 0%    | \$520,793     | 9%  |
| Disabled Non-Duals            | 32,748   | 6%    | 6,025                               | 18%           | \$304,386,936   | 18%   | \$39,383,790  | 13% |
| All Other Non-Duals           | 443,708  | 82%   | 208,058                             | 47%           | \$734,721,094   | 44%   | \$77,431,437  | 11% |
| Eligibility Group             | ,  |       | ,                                   |               | . , , , ,       |       |               |     |
| Aged                          | 40,639   | 7%    | 17,610                              | 43%           | \$392,390,770   | 24%   | \$110,124,754 | 28% |
| Disabled                      | 59,189   | 11%   | ,                                   | 28%           | \$546,406,071   | 33%   | \$125,248,622 | 23% |
| Adults                        | 211,262  | 39%   | ,                                   | 51%           | \$371,465,206   | 22%   | \$40,856,227  | 11% |
| Children                      | 232,623  | 43%   |                                     | 43%           | \$357,754,526   | 21%   | \$35,041,892  | 10% |

Notes: Months are defined as fee-for-service (FFS) if they are months when an individual is enrolled in Medicaid but not in a Medicaid capitated comprehensive managed care or behavioral managed care plan. For subsequent tables, only FFS months are included.

Beneficiaries are all individuals enrolled in Medicaid, including children in Medicaid-SCHIP, for at least one month in the calendar year.

Expenditures are claims-based Medicaid payments, including both federal and state share.

Expenditures for FFS months are defined as expenditures for services during FFS months minus expenditures for capitation premium payments.

Eligibility Groups are mutually exclusive. All individuals age 65 or over are in the Aged group; all remaining individuals who are in Medicaid due to disability are in the Disabled group; remaining individuals are classified as Adults or Children according to whether they are classified as Adults or Children in state enrollment files.

## TABLE 2 MEDICAID FFS MENTAL HEALTH BENEFICIARIES AND EXPENDITURES COMPARED TO TOTAL FFS BENEFICIARIES AND EXPENDITURES OREGON, CALENDAR YEAR 1999

|                          | Total Number of Beneficiaries | FFS Mental Hea             | alth Population                          | Total Expenditures | FFS Expenditure<br>Health Pop |   |
|--------------------------|-------------------------------|----------------------------|--|--------------------|-------------------------------|---|
|                          | in FFS<br>Population          | Number of<br>Beneficiaries | Percent of<br>Total FFS<br>Beneficiaries | for FFS Population | Total Amount                  | Percent of<br>Total FFS<br>Expenditures |
| All                      | 242,381                       | 26,882                     | 11%                                      | \$311,439,318      | \$73,882,419                  | 24%                                     |
| Age                      |                               |                            |  |                    |                               |   |
| 0-3                      | 30,133                        | 301                        | 1%                                       | \$10,125,850       | \$303,241                     | 3%                                      |
| 4-5                      | 13,362                        | 692                        | 5%                                       | \$2,043,460        | \$376,039                     | 18%                                     |
| 6-12                     | 34,703                        | 3,856                      | 11%                                      | \$11,336,565       | \$6,527,463                   | 58%                                     |
| 13-18                    | 24,673                        | 3,553                      | 14%                                      | \$21,205,900       | \$14,628,065                  | 69%                                     |
| 19-21                    | 14,657                        | 1,350                      | 9%                                       | \$7,673,646        | \$1,591,389                   | 21%                                     |
| 22-44                    | 79,616                        | 11,688                     | 15%                                      | \$79,608,951       | \$21,253,316                  | 27%                                     |
| 45-64                    | 26,872                        | 4,408                      | 16%                                      | \$65,616,867       | \$15,682,675                  | 24%                                     |
| 65 and Older             | 18,365                        | 1,034                      | 6%                                       | \$113,828,079      | \$13,520,231                  | 12%                                     |
| Gender                   |                               |                            |  |                    |                               |   |
| Female                   | 134,993                       | 15,312                     | 11%                                      | \$170,702,222      | \$32,785,316                  | 19%                                     |
| Male                     | 107,387                       | 11,570                     | 11%                                      | \$140,737,032      | \$41,097,103                  | 29%                                     |
| Race                     |                               |                            |  |                    |                               |   |
| White                    | 189,063                       | 23,443                     | 12%                                      | \$270,639,926      | \$66,122,403                  | 24%                                     |
| Black                    | 8,764                         | 861                        | 10%                                      | \$7,711,014        | \$1,805,237                   | 23%                                     |
| Hispanic                 | 30,195                        | 1,049                      | 3%                                       | \$16,728,979       | \$1,177,386                   | 7%                                      |
| American Indian/Alaskan  |                               |                            |  |                    |                               |   |
| Native                   | 6,943                         | 862                        | 12%                                      | \$9,612,632        | \$3,071,222                   | 32%                                     |
| Asian/Pacific Islander   | 4,917                         | 273                        | 6%                                       | \$3,459,267        | \$617,533                     | 18%                                     |
| Other/Unknown            | 2,499                         | 394                        | 16%                                      | \$3,287,500        | \$1,088,638                   | 33%                                     |
| Dual Status              |                               |                            |  |                    |                               |   |
| Aged Duals with Full     |                               |                            |  |                    |                               |   |
| Medicaid                 | 13,741                        | 891                        | 6%                                       | \$106,145,877      | \$13,025,020                  | 12%                                     |
| Disabled Duals with Full |                               |                            |  |                    |                               |   |
| Medicaid                 | 6,376                         | 2,083                      | 33%                                      | \$73,405,244       | \$19,176,015                  | 26%                                     |
| Duals with Limited       |                               |                            |  |                    |                               |   |
| Medicaid                 | 7,571                         | 997                        | 13%                                      | . , ,              | \$4,585,097                   | 32%                                     |
| Other Duals              | 610                           | 176                        | 29%                                      | \$520,793          | \$259,891                     | 50%                                     |
| Disabled Non-Duals       | 6,025                         | 1,610                      | 27%                                      | \$39,383,790       | \$10,131,446                  | 26%                                     |
| All Other Non-Duals      | 208,058                       | 21,125                     | 10%                                      | \$77,431,437       | \$26,704,950                  | 34%                                     |
| Eligibility Group        |                               |                            |  |                    |                               |   |
| Aged                     | 17,610                        | 998                        | 6%                                       | \$110,124,754      | \$13,264,749                  | 12%                                     |
| Disabled                 | 16,407                        | 4,594                      | 28%                                      | \$125,248,622      | \$33,802,281                  | 27%                                     |
| Adults                   | 107,581                       | 13,433                     | 12%                                      | \$40,856,227       | \$7,767,528                   | 19%                                     |
| Children                 | 100,532                       | 7,857                      | 8%                                       | \$35,041,892       | \$19,047,861                  | 54%                                     |

Note: The FFS mental health population includes all FFS beneficiaries who had one or more of the mental health diagnoses shown in Table 3 as a primary diagnosis on at least one Medicaid claim during 1999, or who received a clearly identifiable mental health service during the year (inpatient psychiatric service for age 65+ or under age 22, or nursing facility mental health service for age 65+).

Expenditures are claims-based Medicaid payments, including both federal and state share.

Expenditures for FFS months are defined as expenditures for services during FFS months minus expenditures for capitation premium payments.

Eligibility Groups are mutually exclusive. All individuals age 65 or over are in the Aged group; all remaining individuals who are in Medicaid due to disability are in the Disabled group; remaining individuals are classified as Adults or Children according to whether they are classified as Adults or Children in state enrollment files.

## TABLE 3 MEDICAID FFS MENTAL HEALTH POPULATION BY DIAGNOSTIC CATEGORY AND AGE GROUP OREGON, CALENDAR YEAR 1999

|  | FFS Mental Health Population |         |          |         |        |         |              |         |
|--|------------------------------|---------|----------|---------|--------|---------|--------------|---------|
|  | All Ag                       | es      | 21 and U | Inder   | 22-6   | 64      | 65 and Older |         |
| Diagnostic Category                      | Number                       | Percent | Number   | Percent | Number | Percent | Number       | Percent |
| Schizophrenia                            | 1,800                        | 7%      | 123      | 1%      | 1,580  | 10%     | 97           | 9%      |
| Major depression and affective psychoses | 5,125                        | 19%     | 710      | 7%      | 4,224  | 26%     | 191          | 18%     |
| Other psychoses                          | 639                          | 2%      | 72       | 1%      | 359    | 2%      | 208          | 20%     |
| Childhood psychoses                      | 293                          | 1%      | 261      | 3%      | 29     | 0%      | 3            | 0%      |
| Neurotic & other depressive disorders    | 7,765                        | 29%     | 1,423    | 15%     | 6,007  | 37%     | 335          | 32%     |
| Personality disorders                    | 186                          | 1%      | 28       | 0%      | 144    | 1%      | 14           | 1%      |
| Other mental disorders                   | 298                          | 1%      | 57       | 1%      | 190    | 1%      | 51           | 5%      |
| Special symptoms or syndromes            | 750                          | 3%      | 267      | 3%      | 468    | 3%      | 15           | 1%      |
| Stress & adjustment reactions            | 6,531                        | 24%     | 3,647    | 37%     | 2,818  | 18%     | 66           | 6%      |
| Conduct disorders                        | 529                          | 2%      | 473      | 5%      | 47     | 0%      | 9            | 1%      |
| Emotional disturbances                   | 781                          | 3%      | 772      | 8%      | 8      | 0%      | 1            | 0%      |
| Hyperkinetic syndrome                    | 2,128                        | 8%      | 1,905    | 20%     | 222    | 1%      | 1            | 0%      |
| No Diagnosis                             | 57                           | 0%      | 14       | 0%      | 0      | 0%      | 43           | 4%      |
| Total                                    | 26,882                       | 100%    | 9,752    | 100%    | 16,096 | 100%    | 1,034        | 100%    |

Notes: The FFS mental health population includes all FFS beneficiaries who had one or more of the mental health diagnoses shown in this table as a primary diagnosis on at least one Medicaid claim during 1999, or who received a clearly identifiable mental health service during the year (inpatient psychiatric service for age 65+ or under age 22, or nursing facility mental health service for age 65+).

#### The diagnostic category for each user is the one that occurred most frequently among primary diagnoses on claims during the year.

Schizophrenia (ICD-9 CM diagnosis codes beginning with 295) includes both chronic and acute schizophrenic disorders.

Major depression and affective psychoses (ICD-9 CM diagnosis codes beginning with 296) includes manic, depressive, and bipolar disorders.

Other psychoses (ICD-9 CM diagnosis codes beginning with 297 or 298) includes paranoid states, delusional disorders, depressive psychosis, and reactive psychoses.

Childhood psychoses (ICD-9 CM diagnosis codes beginning with 299) includes infantile autism, disintegrative disorders, and childhood type schizophrenia.

Neurotic & other depressive disorders (ICD-9 CM diagnosis codes beginning with 300 or 311) includes anxiety states; phobic, obsessive compulsive, and other neurotic disorders; and unspecified depressive disorders.

Personality disorders (ICD-9 CM diagnosis codes beginning with 301) includes affective, schizoid, explosive, histrionic, antisocial, dependent, and other personality disorders.

Other mental disorders (ICD-9 CM diagnosis codes beginning with 302, 306, or 310) includes sexual deviations, physiological malfunction arising from mental factors, and nonpsychotic mental disorders due to organic brain damage.

Special symptoms or syndromes (ICD-9 CM diagnosis codes beginning with 307) includes eating disorders, tics and repetitive movement disorders, sleep disorders, and enuresis.

Stress & adjustment reactions (ICD-9 CM diagnosis codes beginning with 308 or 309) includes acute reaction to stress; depressive reaction, and separation disorders, and conduct disturbance.

Conduct disorders (ICD-9 CM diagnosis codes beginning with 312) includes aggressive outbursts, truancy, delinquency, kleptomania, impulse control disorder, and other conduct disorders.

Emotional disturbances (ICD-9 CM diagnosis codes beginning with 313) includes overanxious disorder, shyness, relationship problems and other mixed emotional disturbances of childhood or adolescence such as oppositional disorder.

Hyperkinetic syndrome (ICD-9 CM diagnosis codes beginning with 314) includes attention deficit with and without hyperactivity and hyperkinesis with or without developmental delay.

### TABLE 4 PSYCHIATRIC AND GENERAL INPATIENT HOSPITAL USE AND AVERAGE ANNUAL HOSPITAL DAYS PER USER FOR MEDICAID FFS MENTAL HEALTH POPULATION, BY SEX AND AGE GROUP OREGON, CALENDAR YEAR 1999

|        |           | Psychiatric Hospital |                                       | General<br>Hos     | Inpatient<br>pital                    | Tota               | I Inpatient Hos  | pital                                 | General Inpatient Hospital Use by FFS<br>MH Population for Non-Mental Health |  |                                       |  |
|--------|-----------|----------------------|---------------------------------------|--------------------|---------------------------------------|--------------------|--|---------------------------------------|--|--|---------------------------------------|--|
|        |           | 1 Sysman             | оттоорна                              | Mental Healt       | h Treatment                           | Ment               | al Health Treat  | ment                                  | iiii i opala   | Diagnoses  |                                       |  |
| Sex    | Age Group | Number of<br>Users   | Average<br>Annual<br>Days Per<br>User | Number of<br>Users | Average<br>Annual<br>Days Per<br>User | Number of<br>Users | Percent of<br>Total FFS<br>Mental<br>Health<br>Beneficiaries | Average<br>Annual<br>Days Per<br>User | Number of<br>Users   | Percent of<br>Total FFS<br>Mental<br>Health<br>Beneficiaries | Average<br>Annual<br>Days Per<br>User |  |
| Female | 0-3       | 1                    | 46                                    | 0                  | 0                                     | 1                  | 1%   | 46                                    | 4  | 3%   | 4                                     |  |
|        | 4-5       | 0                    | 0                                     | 0                  | 0                                     | 0                  | 0%   | 0                                     | 0  | 0%   | 0                                     |  |
|        | 6-12      | 18                   | 100                                   | 3                  | 6                                     | 19                 | 1%   | 96                                    | 3  | 0%   | 39                                    |  |
|        | 13-18     | 118                  | 103                                   | 49                 | 9                                     | 150                | 9%   | 84                                    | 29   | 2%   | 4                                     |  |
|        | 19-21     | 4                    | 34                                    | 25                 | 5                                     | 28                 | 3%   | 9                                     | 42   | 4%   | 3                                     |  |
|        | 22-44     | 0                    | 0                                     | 151                | 7                                     | 151                | 2%   | 7                                     | 206  | 3%   | 5                                     |  |
|        | 45-64     | 0                    | 0                                     | 56                 | 5                                     | 56                 | 2%   | 5                                     | 124  | 5%   | 3                                     |  |
|        | 65+       | 28                   | 163                                   | 14                 | 0                                     | 42                 | 6%   | 109                                   | 54   | 7%   | 1                                     |  |
|        | All Ages  | 169                  | 111                                   | 298                | 6                                     | 447                | 3%   | 46                                    | 462  | 3%   | 4                                     |  |
| Male   | 0-3       | 0                    | 0                                     | 0                  | 0                                     | 0                  | 0%   | 0                                     | 8  | 5%   | 8                                     |  |
|        | 4-5       | 0                    | 0                                     | 0                  | 0                                     | 0                  | 0%   | 0                                     | 2  | 0%   | 1                                     |  |
|        | 6-12      | 80                   | 103                                   | 11                 | 11                                    | 87                 | 4%   | 96                                    | 13   | 1%   | 4                                     |  |
|        | 13-18     | 145                  | 127                                   | 32                 | 9                                     | 170                | 9%   | 110                                   | 8  | 0%   | 7                                     |  |
|        | 19-21     | 11                   | 93                                    | 35                 | 12                                    | 45                 | 11%  | 32                                    | 9  | 2%   | 4                                     |  |
|        | 22-44     | 0                    | 0                                     | 204                | 6                                     | 204                | 5%   | 6                                     | 137  |  | 4                                     |  |
|        | 45-64     | 0                    | 0                                     | 65                 | 3                                     | 65                 | 4%   | 3                                     | 124  |  | 4                                     |  |
|        | 65+       | 38                   | 161                                   | 2                  | 7                                     | 39                 | 13%  | 157                                   | 19   | 6%   | 0                                     |  |
|        | All Ages  | 274                  | 124                                   |                    | 7                                     | 610                | 5%   | 59                                    | 320  |  | 4                                     |  |
| Total  | 0-3       | 1                    | 46                                    | 0                  | 0                                     | 1                  | 0%   | 46                                    | 12   |  | 6                                     |  |
|        | 4-5       | 0                    | 0                                     | -                  | 0                                     | 0                  | 0%   | 0                                     | 2  |  | 1                                     |  |
|        | 6-12      | 98                   | 103                                   |                    | 10                                    | 106                |  | 96                                    | 16   |  | 10                                    |  |
|        | 13-18     | 263                  | 116                                   |                    | 9                                     | 320                | 9%   | 98                                    | 37   | 1%   | 5                                     |  |
|        | 19-21     | 15                   | 77                                    | 60                 | 9                                     | 73                 | 5%   | 23                                    | 51   | 4%   | 3                                     |  |
|        | 22-44     | 0                    | 0                                     |                    | 7                                     | 355                | 3%   | 7                                     | 343  |  | 5                                     |  |
|        | 45-64     | 0                    | 0                                     |                    | 4                                     | 121                | 3%   | 4                                     | 248  |  | 4                                     |  |
|        | 65+       | 66                   | 162                                   |                    | 1                                     | 81                 | 8%   | 132                                   | 73   |  | 0                                     |  |
|        | All Ages  | 443                  | 119                                   | 647                | 7                                     | 1,057              | 4%   | 54                                    | 782  | 3%   | 4                                     |  |

Notes: All beneficiaries in this table had a mental health diagnosis as the primary diagnosis on a FFS Medicaid claim during 1999, or received a clearly identifiable mental health service (inpatient psychiatric service for age 65+ or under age 22, or nursing facility mental health service for age 65+).

Those who received inpatient hospital services for which the primary diagnosis on the hospital claim was a mental health diagnosis are shown in the "General Inpatient Hospital – Mental Health Treatment" column. Those who received inpatient hospital services for which the primary diagnosis on the claim was not a mental health diagnosis are shown in the "General Inpatient Hospital Use by FFS MH Population for Non-Mental Health Diagnoses" column.

When a dually eligible beneficiary's inpatient stay is primarily covered by Medicare, Medicaid often pays a deductible. Some states interpret their payment of the deductible as Medicaid coverage for one day of the stay. Other states interpret "Medicaid covered days" as including only days covered in full by Medicaid, and thus report zero covered days on a crossover stay. Another group of states reports the number of days covered by Medicare as covered days. Finally, many states do not retain any details about lengths of stay on crossover claims. For any one or combination of these reasons, average lengths of stay for beneficiaries who are dually eligible (most aged and some adults) are inaccurately reduced because of the presence of individual claims with "1" or "0" covered days. In some circumstances this even causes inpatient hospital stays to average "0" days in length, and it explains more generally the low numbers that appear for some groups on Table 4

Individuals may appear in more than one column on this table.

# TABLE 5 EMERGENCY ROOM USE FOR MEDICAID FFS MENTAL HEALTH AND NON-MENTAL HEALTH BENEFICIARIES, BY SEX AND AGE GROUP OREGON, CALENDAR YEAR 1999

|        |           | Mental H | lealth Beneficia                      | ries With Any                     | Non- Mental Health Beneficiaries With     |               |                        |  |   |  |
|--------|-----------|----------|---------------------------------------|-----------------------------------|---|---------------|------------------------|--|---|--|
| Sex    | Age Group |          | Percent of                            | •                                 | mber of Emer<br>Users of Any              |               | Any Emergency Room Use |  |   |  |
| Sex    | Age Group | Number   | Total FFS Mental Health Beneficiaries | For Mental<br>Health<br>Treatment | For Non-<br>Mental<br>Health<br>Treatment | All ER Visits | Number                 | Percent of<br>Total FFS<br>Non-Mental<br>Health<br>Beneficiaries | Number of<br>Emergency<br>Room Visits<br>for Users of<br>Any ER<br>Visits |  |
| Female | 0-3       | 7        | 6%                                    | 0.00                              | 1.14                                      |               | 820                    | 6%   |   |  |
|        | 4-5       | 16       | 6%                                    | 0.00                              | 1.00                                      | 1.00          | 228                    | 4%   |   |  |
|        | 6-12      | 41       | 3%                                    | 0.10                              | 1.05                                      | 1.15          | 379                    | 2%   |   |  |
|        | 13-18     | 180      | 10%                                   | 0.19                              | 1.16                                      | 1.35          | 569                    | 5%   | 1.21  |  |
|        | 19-21     | 142      | 15%                                   | 0.22                              | 1.24                                      | 1.46          | 742                    | 8%   | 1.22  |  |
|        | 22-44     | 1,086    | 14%                                   | 0.24                              | 1.50                                      | 1.74          | 2,736                  | 7%   | 1.32  |  |
|        | 45-64     | 422      | 16%                                   | 0.30                              | 1.68                                      | 1.98          | 858                    | 8%   | 1.35  |  |
|        | 65+       | 97       | 13%                                   | 0.15                              | 1.54                                      | 1.69          | 896                    | 7%   | 1.39  |  |
|        | All Ages  | 1,991    | 13%                                   | 0.24                              | 1.48                                      | 1.71          | 7,228                  | 6%   | 1.28  |  |
| Male   | 0-3       | 22       | 12%                                   | 0.00                              | 1.36                                      | 1.36          | 891                    | 6%   |   |  |
|        | 4-5       | 23       | 6%                                    | 0.00                              | 1.22                                      | 1.22          | 240                    | 4%   | 1.15  |  |
|        | 6-12      | 107      | 4%                                    | 0.06                              | 1.09                                      | 1.15          | 401                    | 3%   | 1.11  |  |
|        | 13-18     | 107      | 6%                                    | 0.14                              | 1.13                                      | 1.27          | 354                    | 4%   | 1.09  |  |
|        | 19-21     | 49       | 12%                                   | 0.39                              | 0.92                                      | 1.31          | 389                    | 9%   | 1.21  |  |
|        | 22-44     | 700      | 17%                                   | 0.37                              | 1.42                                      | 1.79          | 2,323                  | 8%   | 1.31  |  |
|        | 45-64     | 284      | 15%                                   | 0.30                              | 1.73                                      | 2.02          | 1,029                  | 9%   | 1.38  |  |
|        | 65+       | 29       | 10%                                   | 0.17                              | 1.66                                      | 1.83          | 392                    | 7%   | 1.38  |  |
|        | All Ages  | 1,321    | 11%                                   | 0.30                              | 1.42                                      | 1.71          | 6,019                  | 6%   | 1.27  |  |
| Total  | 0-3       | 29       | 10%                                   | 0.00                              | 1.31                                      | 1.31          | 1,711                  | 6%   | 1.19  |  |
|        | 4-5       | 39       | 6%                                    | 0.00                              | 1.13                                      | 1.13          | 468                    | 4%   | 1.14  |  |
|        | 6-12      | 148      | 4%                                    | 0.07                              | 1.08                                      | 1.15          | 780                    | 3%   | 1.14  |  |
|        | 13-18     | 287      | 8%                                    | 0.17                              | 1.15                                      | 1.32          | 923                    | 4%   | 1.16  |  |
|        | 19-21     | 191      | 14%                                   | 0.26                              | 1.16                                      | 1.42          | 1,131                  | 9%   | 1.22  |  |
|        | 22-44     | 1,786    | 15%                                   | 0.29                              | 1.47                                      | 1.76          | 5,059                  | 7%   | 1.31  |  |
|        | 45-64     | 706      | 16%                                   | 0.30                              | 1.70                                      | 2.00          | 1,887                  | 8%   | 1.37  |  |
|        | 65+       | 126      |                                       | 0.16                              | 1.56                                      | 1.72          | 1,288                  | 7%   | 1.39  |  |
| ì      | All Ages  | 3,312    | 12%                                   | 0.26                              | 1.45                                      | 1.71          | 13,247                 | 6%   | 1.28  |  |

Notes: An emergency room visit is classified as "for mental health treatment" if one of the mental health diagnoses in Table 3 is shown as the primary diagnosis on the emergency room claim. If any other diagnosis is shown as the primary diagnosis on the claim, the emergency room visit is classified as being for non-mental health treatment. Visits are defined by unique dates of service.

FFS mental health beneficiaries include all FFS beneficiaries who had one or more of the mental health diagnoses shown in Table 3 as a primary diagnosis on at least one Medicaid claim during 1999, or who received a clearly identifiable mental health service during the year (inpatient psychiatric service for age 65+ or under age 22, or nursing facility mental health service for age 65+).

# TABLE 6 PRESCRIPTION PYSCHOTROPIC DRUG USE FOR MEDICAID FFS MENTAL HEALTH AND NON-MENTAL HEALTH BENEFICIARIES, BY AGE GROUP OREGON, CALENDAR YEAR 1999

|           |        | eficiaries with<br>opic Drug Use         | Beneficiari | tal Health<br>es with Any<br>ic Drug Use    | FFS <i>Non-Mental Health</i><br>Beneficiaries with Any<br>Psychotropic Drug Use |  |  |
|-----------|--------|--|-------------|---|---|--|--|
| Age Group | Number | Percent of<br>Total FFS<br>Beneficiaries | Number      | Percent of<br>Total FFS MH<br>Beneficiaries | Number  | Percent of<br>Total FFS<br>Non-MH<br>Beneficiaries |  |
| 0-3       | 397    | 1%                                       | 13          | 4%  | 384   | 1%   |  |
| 4-5       | 309    | 2%                                       | 86          | 12%   | 223   | 2%   |  |
| 6-12      | 2,189  | 6%                                       | 1,291       | 33%   | 898   | 3%   |  |
| 13-18     | 2,626  | 11%                                      | 1,565       | 44%   | 1,061   | 5%   |  |
| 19-21     | 1,666  | 11%                                      | 769         | 57%   | 897   | 7%   |  |
| 22-44     | 18,032 | 23%                                      | 8,730       | 75%   | 9,302   | 14%  |  |
| 45-64     | 9,646  | 36%                                      | 3,647       | 83%   | 5,999   | 27%  |  |
| 65+       | 8,361  | 46%                                      | 825         | 80%   | 7,536   | 43%  |  |
| All Ages  | 43,226 | 18%                                      | 16,926      | 63%   | 26,300  | 12%  |  |

Notes: FFS mental health beneficiaries include all FFS beneficiaries who had one or more of the mental health diagnoses shown in Table 3 as a primary diagnosis on at least one Medicaid claim during 1999, or who received a clearly identifiable mental health service during 1999 (inpatient psychiatric service for age 65+ or under age 22, or nursing facility mental health service for age 65+).

Psychotropic drugs are defined as drugs in any of the categories shown on Table 7, as grouped by Multum prescription drug grouping software.

Non-mental health beneficiaries who are dual eligibles may have received mental health treatment under Medicare that is not seen in Medicaid coinsurance claims.

#### TABLE 7

#### PERCENT OF MEDICAID FFS MENTAL HEALTH BENEFICIARIES AGE 21 AND UNDER WHO USED PRESCRIPTION PSYCHOTROPIC DRUGS, BY DIAGNOSTIC CATEGORY AND DRUG TYPE OREGON, CALENDAR YEAR 1999

|  |   |                      | Type of Psychotropic Drug |                        |                               |            |  |                                     |  |  |
|--|---|----------------------|---------------------------|------------------------|-------------------------------|------------|--|-------------------------------------|--|--|
| Diagnostic Category                      | Number of<br>FFS MH<br>Beneficiaries<br>by Diagnostic<br>Category | Antidepres-<br>sants | Antipsycho-<br>tics       | Anti-Anxiety<br>Agents | Mood<br>Stabilizing<br>Agents | Stimulants | More than<br>One<br>Psychotro-<br>pic Drug<br>Type | No<br>Psychotro-<br>pic Drug<br>Use |  |  |
| Schizophrenia                            | 123   | 44%                  | 80%                       | 20%                    | 11%                           | 4%         | 56%  | 2%                                  |  |  |
| Major depression and affective psychoses | 710   | 55%                  | 20%                       | 16%                    | 11%                           | 4%         | 27%  | 8%                                  |  |  |
| Other psychoses                          | 72  | 24%                  | 49%                       | 18%                    | 3%                            | 0%         | 32%  | 1%                                  |  |  |
| Childhood psychoses                      | 261   | 18%                  | 15%                       | 13%                    | 1%                            | 11%        | 14%  | 20%                                 |  |  |
| Neurotic & other depressive disorders    | 1,423   | 48%                  | 4%                        | 11%                    | 1%                            | 3%         | 13%  | 14%                                 |  |  |
| Personality disorders                    | 28  | 29%                  | 21%                       | 25%                    | 0%                            | 7%         | 25%  | 4%                                  |  |  |
| Other mental disorders                   | 57  | 16%                  | 5%                        | 12%                    | 0%                            | 4%         | 9%   | 35%                                 |  |  |
| Special symptoms or syndromes            | 267   | 15%                  | 5%                        | 9%                     | 0%                            | 2%         | 5%   | 27%                                 |  |  |
| Stress & adjustment reactions            | 3,647   | 14%                  | 3%                        | 5%                     | 0%                            | 4%         | 5%   | 24%                                 |  |  |
| Conduct disorders                        | 473   | 17%                  | 5%                        | 6%                     | 1%                            | 9%         | 10%  | 18%                                 |  |  |
| Emotional disturbances                   | 772   | 22%                  | 6%                        | 6%                     | 0%                            | 15%        | 11%  | 18%                                 |  |  |
| Hyperkinetic syndrome                    | 1,905   | 20%                  | 6%                        | 6%                     | 1%                            | 44%        | 17%  | 7%                                  |  |  |
| No Diagnosis                             | 14  | 79%                  | 71%                       | 14%                    | 0%                            | 14%        | 64%  | 0%                                  |  |  |
| Total                                    | 9,752   | 25%                  | 7%                        | 8%                     | 1%                            | 13%        | 12%  | 62%                                 |  |  |

Notes: The percentages shown do not add to 100 percent because service users with a specific diagnosis may use more than one type of drug. Psychotropic drugs are defined and grouped according to Multum prescription drug grouping software.

The diagnostic category for each user was the beneficiary's most frequent diagnosis category in the year.

FFS mental health beneficiaries include all FFS beneficiaries who had one or more of the mental health diagnoses shown in this table as a primary diagnosis on at least one Medicaid claim during 1999, or who received a clearly identifiable mental health service during the year (inpatient psychiatric service for age 65+ or under age 22, or nursing facility mental health service for age 65+).

### TABLE 8 PERCENT OF MEDICAID FFS MENTAL HEALTH BENEFICIARIES AGE 22 TO 64 WHO USED PRESCRIPTION PSYCHOTROPIC DRUGS, BY DIAGNOSTIC CATEGORY AND DRUG TYPE

OREGON, CALENDAR YEAR 1999

|  |   | Type of Psychotropic Drug |                     |                        |                               |            |  |                                     |
|--|---|---------------------------|---------------------|------------------------|-------------------------------|------------|--|-------------------------------------|
| Diagnostic Category                      | Number of<br>FFS MH<br>Beneficiaries<br>by Diagnostic<br>Category | sants                     | Antipsycho-<br>tics | Anti-Anxiety<br>Agents | Mood<br>Stabilizing<br>Agents | Stimulants | More than<br>One<br>Psychotro-<br>pic Drug<br>Type | No<br>Psychotro-<br>pic Drug<br>Use |
| Schizophrenia                            | 1,580   | 48%                       | 88%                 | 39%                    | 13%                           | 1%         | 64%  | 1%                                  |
| Major depression and affective psychoses | 4,224   | 75%                       | 25%                 | 37%                    | 12%                           | 1%         | 47%  | 4%                                  |
| Other psychoses                          | 359   | 42%                       | 57%                 | 28%                    | 4%                            | 0%         | 45%  | 5%                                  |
| Childhood psychoses                      | 29  | 38%                       | 28%                 | 21%                    | 7%                            | 3%         | 28%  | 28%                                 |
| Neurotic & other depressive disorders    | 6,007   | 73%                       | 7%                  | 35%                    | 1%                            | 1%         | 32%  | 5%                                  |
| Personality disorders                    | 144   | 56%                       | 22%                 | 35%                    | 6%                            | 0%         | 35%  | 9%                                  |
| Other mental disorders                   | 190   | 37%                       | 10%                 | 22%                    | 1%                            | 0%         | 19%  | 20%                                 |
| Special symptoms or syndromes            | 468   | 55%                       | 6%                  | 28%                    | 0%                            | 1%         | 25%  | 16%                                 |
| Stress & adjustment reactions            | 2,818   | 52%                       | 7%                  | 26%                    | 1%                            | 0%         | 23%  | 13%                                 |
| Conduct disorders                        | 47  | 40%                       | 9%                  | 19%                    | 2%                            | 0%         | 21%  | 11%                                 |
| Emotional disturbances                   | 8   | 50%                       | 13%                 | 38%                    | 0%                            | 0%         | 38%  | 0%                                  |
| Hyperkinetic syndrome                    | 222   | 65%                       | 8%                  | 19%                    | 3%                            | 24%        | 32%  | 6%                                  |
| No Diagnosis                             | 0   | 0%                        | 0%                  | 0%                     | 0%                            | 0%         | 0%   | 0%                                  |
| Total                                    | 16,096  | 65%                       | 21%                 | 34%                    | 5%                            | 1%         | 38%  | 23%                                 |

Notes: The percentages shown do not add to 100 percent because service users with a specific diagnosis may use more than one type of drug. Psychotropic drugs are defined and grouped according to Multum prescription drug grouping software.

The diagnostic category for each user was the beneficiary's most frequent diagnosis category in the year.

FFS mental health beneficiaries include all FFS beneficiaries who had one or more of the mental health diagnoses shown in this table as a primary diagnosis on at least one Medicaid claim during 1999, or who received a clearly identifiable mental health service during the year (inpatient psychiatric service for age 65+ or under age 22, or nursing facility mental health service for age 65+).

# TABLE 9 PERCENT OF MEDICAID FFS MENTAL HEALTH BENEFICIARIES AGE 65 AND OLDER WHO USED PRESCRIPTION PSYCHOTROPIC DRUGS, BY DIAGNOSTIC CATEGORY AND DRUG TYPE OREGON, CALENDAR YEAR 1999

|  |   |                      | Type of Psychotropic Drug |                        |                               |            |  |                                     |  |
|--|---|----------------------|---------------------------|------------------------|-------------------------------|------------|--|-------------------------------------|--|
| Diagnostic Category                      | Number of<br>FFS MH<br>Beneficiaries<br>by Diagnostic<br>Category | Antidepres-<br>sants | Antipsycho-<br>tics       | Anti-Anxiety<br>Agents | Mood<br>Stabilizing<br>Agents | Stimulants | More than<br>One<br>Psychotro-<br>pic Drug<br>Type | No<br>Psychotro-<br>pic Drug<br>Use |  |
| Schizophrenia                            | 97  | 41%                  | 80%                       | 37%                    | 12%                           | 1%         | 59%  | 1%                                  |  |
| Major depression and affective psychoses | 191   | 74%                  | 42%                       | 49%                    | 12%                           | 2%         | 63%  | 5%                                  |  |
| Other psychoses                          | 208   | 54%                  | 51%                       | 34%                    | 1%                            | 1%         | 49%  | 20%                                 |  |
| Childhood psychoses                      | 3   | 100%                 | 67%                       | 100%                   | 0%                            | 0%         | 100%   | 0%                                  |  |
| Neurotic & other depressive disorders    | 335   | 72%                  | 20%                       | 50%                    | 1%                            | 1%         | 50%  | 7%                                  |  |
| Personality disorders                    | 14  | 93%                  | 57%                       | 50%                    | 0%                            | 0%         | 71%  | 0%                                  |  |
| Other mental disorders                   | 51  | 49%                  | 43%                       | 43%                    | 2%                            | 0%         | 43%  | 20%                                 |  |
| Special symptoms or syndromes            | 15  | 47%                  | 13%                       | 53%                    | 0%                            | 0%         | 40%  | 0%                                  |  |
| Stress & adjustment reactions            | 66  | 53%                  | 20%                       | 41%                    | 0%                            | 3%         | 39%  | 17%                                 |  |
| Conduct disorders                        | 9   | 44%                  | 67%                       | 67%                    | 0%                            | 0%         | 67%  | 22%                                 |  |
| Emotional disturbances                   | 1   | 100%                 | 0%                        | 0%                     | 0%                            | 0%         | 0%   | 0%                                  |  |
| Hyperkinetic syndrome                    | 1   | 0%                   | 0%                        | 0%                     | 0%                            | 0%         | 0%   | 0%                                  |  |
| No Diagnosis                             | 43  | 40%                  | 40%                       | 47%                    | 0%                            | 0%         | 51%  | 2%                                  |  |
| Total                                    | 1,034   | 62%                  | 39%                       | 45%                    | 4%                            | 1%         | 52%  | 20%                                 |  |

Notes: The percentages shown do not add to 100 percent because service users with a specific diagnosis may use more than one type of drug. Psychotropic drugs are defined and grouped according to Multum prescription drug grouping software.

The diagnostic category for each user was the beneficiary's most frequent diagnosis category in the year.

FFS mental health beneficiaries include all FFS beneficiaries who had one or more of the mental health diagnoses shown in this table as a primary diagnosis on at least one Medicaid claim during 1999, or who received a clearly identifiable mental health service during the year (inpatient psychiatric service for age 65+ or under age 22, or nursing facility mental health service for age 65+).