

Appendices

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|------------|--|
| Appendix A | Service Utilization by Children Receiving San Diego County Children, Youth & Families Behavioral Health Services |
| Appendix B | Service Utilization by Children active to Any Other Sector |
| Appendix C | Service Utilization by Children with Open Child Welfare Cases |
| Appendix D | Service Use by Youth Receiving Special Education Services |
| Appendix E | Service Utilization by Children active to the Probation sector |
| Appendix F | Service Utilization by Children active to Alcohol & Drug Services |
| Appendix G | Service Utilization by Children with a Dual Diagnosis |
| Appendix H | Service Utilization by Children with a Co-occurring Substance Use Disorder |
| Appendix I | Examination of Primary Diagnosis by Client Characteristics |
| Appendix J | Detailed Service Utilization Data Tables |
| Appendix K | References |

Note that Service Utilization data is calculated in the Appendices at CLIENT LEVEL and may differ from service data calculated at PROVIDER LEVEL.

Appendix A: Service Utilization by Children Receiving County Behavioral Health Services

Summary demographics and service use data for the **19,010 children and youth served** by San Diego County Children, Youth & Families Behavioral Health Services (CYFBHS) in FY 2013-14.

| <u>Age:</u> | <u>N</u> | <u>%</u> | | <u>Primary Diagnosis:</u> | <u>N</u> | <u>%</u> |
|--|----------|----------|--|---------------------------|----------|----------|
| 0-5: | 2167 | 11.4% | | ADHD: | 2489 | 14.3% |
| 6-11: | 6407 | 33.7% | | Oppositional/Conduct: | 2697 | 15.5% |
| 12-17: | 9427 | 49.6% | | Depressive disorders: | 3669 | 21.2% |
| 18+: | 1009 | 5.3% | | Bipolar disorders: | 1089 | 6.3% |
| | | | | Anxiety disorders: | 2364 | 13.6% |
| <u>Gender:</u> | <u>N</u> | <u>%</u> | | Adjustment disorders: | 3543 | 20.4% |
| Female: | 8031 | 42.2% | | Schizophrenic disorders: | 162 | 0.9% |
| Male: | 10973 | 57.7% | | Other: | 928 | 5.3% |
| Unknown: | 6 | 0.0% | | Excluded: | 405 | 2.3% |
| | | | | <i>Invalid:</i> | 913 | |
| <u>Race/Ethnicity:</u> | <u>N</u> | <u>%</u> | | <i>Missing Diagnosis:</i> | 751 | |
| White: | 3741 | 19.7% | | | | |
| Hispanic: | 10607 | 55.8% | | <u>Dual Diagnosis:</u> | 969 | 5.1% |
| Black: | 1891 | 9.9% | | | | |
| Asian/PI: | 487 | 2.6% | | | | |
| Native Am.: | 114 | 0.6% | | | | |
| Other: | 482 | 2.5% | | | | |
| Unknown: | 1688 | 8.9% | | | | |
| Use of Outpatient Services – Percent of CYFBHS clients using service, Mean Hours (Median Hours) | | | | | | |
| Therapy: | | 72.8% | | 8.7 (6.8) | | |
| Assessment: | | 66.3% | | 3.1 (2.5) | | |
| Collateral: | | 46.7% | | 3.7 (1.5) | | |
| Medication Support: | | 29.6% | | 3.1 (2.2) | | |
| Case Management/Rehab: | | 39.8% | | 7.4 (2.9) | | |
| Crisis Services: | | 2.4% | | 1.6 (1.3) | | |
| TBS: | | 5.5% | | 38.8 (27.3) | | |
| Use of Intensive Services – Percent of CYFBHS clients using service, Mean Days (Median Days) | | | | | | |
| Day Treatment: | | 6.6% | | 74.7 (43) | | |
| Inpatient: | | 4.4% | | 9.9 (5) | | |
| Crisis Stabilization: | | 5.5% | | 1.7 (1) | | |

Appendix B: Service Utilization by Children active to Any Other Sector

CYFBHS works collaboratively with other behavioral health entities in San Diego County; primarily **Child Welfare Services, Probation, Special Education Services** and **Alcohol and Drug Services**. Demographic and service use data for each individual sector overlap follow; data here reflect the 8,954 clients (47% of the CYFBHS total) open to CYFBHS and *any other sector* during FY 2013-14.

| <u>Age:</u> | <u>N</u> | <u>%</u> | | <u>Primary Diagnosis:</u> | <u>N</u> | <u>%</u> |
|---|----------|----------|--|---------------------------|----------|----------|
| 0-5: | 1104 | 12.3% | | ADHD: | 1415 | 17.4% |
| 6-11: | 2631 | 29.4% | | Oppositional/Conduct: | 1402 | 17.2% |
| 12-17: | 4570 | 51.0% | | Depressive disorders: | 1268 | 15.6% |
| 18+: | 649 | 7.2% | | Bipolar disorders: | 644 | 7.9% |
| | | | | Anxiety disorders: | 958 | 11.8% |
| <u>Gender:</u> | <u>N</u> | <u>%</u> | | Adjustment disorders: | 1466 | 18.0% |
| Female: | 3040 | 34.0% | | Schizophrenic disorders: | 100 | 1.2% |
| Male: | 5914 | 66.0% | | Other: | 600 | 7.4% |
| Unknown: | 0 | 0.0% | | Excluded: | 298 | 3.7% |
| | | | | <i>Invalid:</i> | 286 | |
| <u>Race/Ethnicity:</u> | <u>N</u> | <u>%</u> | | <i>Missing Diagnosis:</i> | 517 | |
| White: | 1934 | 21.6% | | | | |
| Hispanic: | 4670 | 52.2% | | <u>Dual Diagnosis:</u> | 699 | 7.8% |
| Black: | 1226 | 13.7% | | | | |
| Asian/PI: | 211 | 2.4% | | | | |
| Native Am.: | 66 | 0.7% | | | | |
| Other: | 202 | 2.3% | | | | |
| Unknown: | 645 | 7.2% | | | | |
| Use of Outpatient Services – Percent of CYFBHS/Other Sector clients using service, Mean Hours (Median Hours) | | | | | | |
| Therapy: | | 67.9% | | 9.4 (7.0) | | |
| Assessment: | | 61.5% | | 3.6 (2.6) | | |
| Collateral: | | 45.4% | | 5.2 (2.1) | | |
| Medication Support: | | 38.5% | | 3.5 (2.6) | | |
| Case Management/Rehab: | | 48.2% | | 9.3 (3.9) | | |
| Crisis Services: | | 2.6% | | 1.7 (1.3) | | |
| TBS: | | 7.9% | | 40.8 (28.1) | | |
| Use of Intensive Services – Percent of CYFBHS clients using service, Mean Days (Median Days) | | | | | | |
| Day Treatment: | | 12.6% | | 78.9 (49) | | |
| Inpatient: | | 4.8% | | 12.2 (6) | | |
| Crisis Stabilization: | | 5.4% | | 2.0 (1) | | |

Appendix C: Service Utilization by Children with Open Child Welfare Cases

One area of interest to the San Diego County Children, Youth & Families Behavioral Health System of Care is the overlap between the behavioral health and child welfare sectors. It is well documented that children involved in the Child Welfare System (CWS) are an especially vulnerable population with studies estimating that over 40% of these children have significant emotional and behavioral health needs. These children have often experienced long-term abuse and/or neglect, which can have traumatic effects on children and require appropriate treatment.

To examine the Child Welfare – Behavioral Health overlap in San Diego County, a dataset containing a list of all children who had open Child Welfare cases during FY 2013-14 was obtained and compared to the CYFBHS dataset. **In FY 2013-14, 2,498 clients, or 13.1% of youth receiving mental health services, were also open to the Child Welfare System.** Looking at it from the Child Welfare perspective, 31.9% of youth with open Child Welfare cases in FY 2013-14 also received CYFBHS services during the year.

| <u>Age:</u> | <u>N</u> | <u>%</u> | | <u>Primary Diagnosis:</u> | <u>N</u> | <u>%</u> |
|------------------------|----------|----------|--|---------------------------|----------|----------|
| 0-5: | 757 | 30.3% | | ADHD: | 171 | 7.1% |
| 6-11: | 856 | 34.3% | | Oppositional/Conduct: | 197 | 8.2% |
| 12-17: | 793 | 31.7% | | Depressive disorders: | 250 | 10.4% |
| 18+: | 92 | 3.7% | | Bipolar disorders: | 179 | 7.5% |
| | | | | Anxiety disorders: | 251 | 10.5% |
| <u>Gender:</u> | <u>N</u> | <u>%</u> | | Adjustment disorders: | 903 | 37.6% |
| Female: | 1191 | 47.7% | | Schizophrenic disorders: | 12 | 0.5% |
| Male: | 1307 | 52.3% | | Other: | 408 | 17.0% |
| | | | | Excluded: | 29 | 1.2% |
| <u>Race/Ethnicity:</u> | <u>N</u> | <u>%</u> | | <i>Invalid:</i> | 86 | |
| White: | 538 | 21.5% | | <i>Missing Diagnosis:</i> | 12 | |
| Hispanic: | 1079 | 43.2% | | | | |
| Black: | 483 | 19.3% | | <u>Dual Diagnosis:</u> | 98 | 3.9% |
| Asian/PI: | 48 | 1.9% | | | | |
| Native Am.: | 32 | 1.3% | | | | |
| Other: | 48 | 1.9% | | | | |
| Unknown: | 270 | 10.8% | | | | |

Use of Outpatient Services – Percent of CYFBHS-CWS clients using service, Mean Hours (Median Hours)

| | | |
|------------------------|-------|-------------|
| Therapy: | 59.6% | 11.3 (9.0) |
| Assessment: | 74.5% | 3.4 (2.5) |
| Collateral: | 40.2% | 6.9 (3.0) |
| Medication Support: | 28.2% | 5.0 (3.5) |
| Case Management/Rehab: | 44.6% | 9.0 (2.9) |
| Crisis Services: | 3.4% | 2.0 (1.1) |
| TBS: | 13.3% | 36.0 (20.2) |

Use of Intensive Services – Percent of CYFBHS-CWS clients using service, Mean Days (Median Days)

| | | |
|-----------------------|-------|-----------|
| Day Treatment: | 24.7% | 78.1 (36) |
| Inpatient: | 4.9% | 15.7 (7) |
| Crisis Stabilization: | 4.9% | 2.4 (2) |

Appendix D: Service Use by Youth Receiving Special Education Services

A goal of the San Diego County Children, Youth & Families Behavioral Health System of Care is to remove mental health barriers that affect success in school. Children with mental health issues may have difficulties in school, especially if their mental health condition impacts their school attendance and performance. Such children become involved in the Special Education system in their local school district, and a large percentage of these children are eligible for special education services under the Emotional Disturbance category.

The **Education definition of Emotional Disturbance (ED)** is as follows: a condition exhibiting one or more of the following characteristics, over a long period of time and to a marked degree, that adversely affects educational performance:

- 1) An inability to learn which cannot be explained by intellectual, sensory, or health factors;
- 2) An inability to build or maintain satisfactory interpersonal relationships with peers and teachers;
- 3) Inappropriate types of behavior or feeling under normal circumstances;
- 4) A general pervasive mood of unhappiness or depression; or
- 5) A tendency to develop physical symptoms or fears associated with personal or school problems.

A student needs to meet only **one** of the five criteria of the definition of ED to be classified as ED and eligible for special education services.

Using a dataset obtained through the six San Diego County Special Education Local Plan Areas (SELPA) of all children receiving special education services, and identifying a subset receiving services under the ED eligibility category, children served by CYFBHS during FY 2013-14 were identified.

5,552 clients, or **29.2%** of all CYFBHS clients, were also open to Special Education services in FY 2013-14. **850** clients, or **4.5%** of all CYFBHS clients, were open to Special Education services under the Emotional Disturbance (ED) category in FY 2013-14. Data on both groups are presented below.

| | CYFBHS & Special Education | | CYFBHS & Emotionally Disturbed | |
|------------------------|----------------------------|----------|--------------------------------|----------|
| <u>Age:</u> | <u>N</u> | <u>%</u> | <u>N</u> | <u>%</u> |
| 0-5: | 463 | 8.3% | 5 | 0.6% |
| 6-11: | 2039 | 36.7% | 191 | 22.5% |
| 12-17: | 2834 | 51.0% | 594 | 69.9% |
| 18+: | 216 | 3.9% | 60 | 7.1% |
| | | | | |
| <u>Gender:</u> | <u>N</u> | <u>%</u> | <u>N</u> | <u>%</u> |
| Female: | 1673 | 30.1% | 292 | 34.4% |
| Male: | 3879 | 69.9% | 558 | 65.6% |
| | | | | |
| <u>Race/Ethnicity:</u> | <u>N</u> | <u>%</u> | <u>N</u> | <u>%</u> |
| White: | 1311 | 23.6% | 299 | 35.2% |
| Hispanic: | 2856 | 51.4% | 332 | 39.1% |
| Black: | 728 | 13.1% | 153 | 18.0% |
| Asian/PI: | 133 | 2.4% | 22 | 2.6% |
| Native Am.: | 29 | 0.5% | 7 | 0.8% |
| Other: | 124 | 2.2% | 21 | 2.5% |
| Unknown: | 371 | 6.7% | 16 | 1.9% |

| Primary Diagnosis: | N | % | | N | % |
|---|----------|---------------------------------------|--|---|-------------|
| ADHD: | 1231 | 23.4% | | 112 | 13.4% |
| Oppositional/Conduct: | 894 | 17.0% | | 162 | 19.4% |
| Depressive disorders: | 833 | 15.9% | | 182 | 21.8% |
| Bipolar disorders: | 472 | 9.0% | | 195 | 23.4% |
| Anxiety disorders: | 663 | 12.6% | | 88 | 10.6% |
| Adjustment disorders: | 635 | 12.1% | | 39 | 4.7% |
| Schizophrenic disorders: | 63 | 1.2% | | 29 | 3.5% |
| Other: | 220 | 4.2% | | 15 | 1.8% |
| Excluded: | 239 | 4.6% | | 12 | 1.4% |
| <i>Invalid:</i> | 198 | | | 9 | |
| <i>Missing Diagnosis:</i> | 104 | | | 7 | |
| Dual Diagnosis: | 192 | 3.5% | | 38 | 4.5% |
| | | | | | |
| | | | | | |
| Use of Outpatient Services – Percent of clients using service, Mean Hours (Median Hours) | | | | | |
| | | CYFBHS & Special Education | | CYFBHS & Emotionally Disturbed | |
| Therapy: | 70.3% | 9.4 (7.5) | | 64.2% | 10.3 (7.6) |
| Assessment: | 63.9% | 3.7 (2.7) | | 58.9% | 5.3 (3.1) |
| Collateral: | 50.8% | 4.6 (2.0) | | 57.4% | 6.7 (3.0) |
| Medication Support: | 46.0% | 3.6 (2.7) | | 69.6% | 4.7 (3.3) |
| Case Management/Rehab: | 42.1% | 9.8 (3.6) | | 55.8% | 13.4 (4.6) |
| Crisis Services: | 3.2% | 1.7 (1.4) | | 8.1% | 1.8 (1.3) |
| TBS: | 9.5% | 45.6 (36.4) | | 16.6% | 49.6 (41.3) |
| | | | | | |
| Use of Intensive Services – Percent of clients using service, Mean Days (Median Days) | | | | | |
| Day Treatment: | 10.7% | 96.3 (81) | | 29.2% | 114.3 (111) |
| Inpatient: | 6.1% | 12.8 (6) | | 18.1% | 14.8 (7) |
| Crisis Stabilization: | 6.6% | 2.0 (1) | | 15.6% | 2.6 (2) |
| | | | | | |

Appendix E: Service Utilization by Children active to the Probation sector

To examine the overlap between the Children, Youth & Families Behavioral Health System and the Probation System in San Diego County, a dataset containing a list of all children who had open Probation cases during FY 2013-14 was obtained and compared to the CYFBHS dataset. In FY 2013-14, **2,232** clients, or **11.7%** of all CYFBHS clients, were also open to the Probation System. Looking at it from the Probation perspective, 46.0% of youth with open Probation cases in FY 2013-14 also received CYFBHS services during the year.

| <u>Age:</u> | <u>N</u> | <u>%</u> | | <u>Primary Diagnosis:</u> | <u>N</u> | <u>%</u> |
|------------------------|----------|----------|--|---------------------------|----------|----------|
| 0-5: | 0 | 0.0% | | ADHD: | 204 | 11.6% |
| 6-11: | 3 | 0.1% | | Oppositional/Conduct: | 570 | 32.5% |
| 12-17: | 1779 | 79.7% | | Depressive disorders: | 361 | 20.6% |
| 18+: | 450 | 20.2% | | Bipolar disorders: | 167 | 9.5% |
| | | | | Anxiety disorders: | 170 | 9.7% |
| <u>Gender:</u> | <u>N</u> | <u>%</u> | | Adjustment disorders: | 137 | 7.8% |
| Female: | 550 | 24.6% | | Schizophrenic disorders: | 37 | 2.1% |
| Male: | 1682 | 75.4% | | Other: | 47 | 2.7% |
| | | | | Excluded: | 60 | 3.4% |
| <u>Race/Ethnicity:</u> | <u>N</u> | <u>%</u> | | Invalid: | 25 | |
| White: | 409 | 18.3% | | Missing Diagnosis: | 454 | |
| Hispanic: | 1304 | 58.4% | | | | |
| Black: | 363 | 16.3% | | <u>Dual Diagnosis:</u> | 511 | 22.9% |
| Asian/PI: | 47 | 2.1% | | | | |
| Native Am.: | 18 | 0.8% | | | | |
| Other: | 50 | 2.2% | | | | |
| Unknown: | 41 | 1.8% | | | | |

Use of Outpatient Services – Percent of CYFBHS-Probation clients using service, Mean Hours (Median Hours)

| | | |
|------------------------|-------|------------|
| Therapy: | 72.3% | 8.1 (4.8) |
| Assessment: | 39.7% | 3.9 (2.5) |
| Collateral: | 38.6% | 6.2 (1.7) |
| Medication Support: | 40.5% | 3.4 (2.5) |
| Case Management/Rehab: | 79.6% | 10.7 (6.1) |
| Crisis Services: | 1.9% | 1.4 (1.0) |
| TBS: | 1.8% | 21.6 (3.7) |

Use of Intensive Services – Percent of CYFBHS-Probation clients using service, Mean Days (Median Days)

| | | |
|-----------------------|-------|-----------|
| Day Treatment: | 14.4% | 66.1 (47) |
| Inpatient: | 2.8% | 14.0 (6) |
| Crisis Stabilization: | 3.4% | 1.8 (1) |

Appendix F: Service Utilization by Children active to Alcohol & Drug Services

The characteristics of youth who were active to both the CYFBHS and ADS sectors were examined using a dataset obtained from ADS that listed all clients served during FY 2013-14. Overall, **650 youth receiving CYFBHS services (3.4%) were also active to ADS** during the fiscal year. Looking at it from the ADS perspective, 41% of youth open to ADS in FY 2013-14 also received CYFBHS services during the year.

| <u>Age:</u> | <u>N</u> | <u>%</u> | <u>Primary Diagnosis:</u> | <u>N</u> | <u>%</u> |
|------------------------|----------|----------|---------------------------|----------|----------|
| 0-5: | 0 | 0.0% | ADHD: | 46 | 8.3% |
| 6-11: | 0 | 0.0% | Oppositional/Conduct: | 173 | 31.2% |
| 12-17: | 554 | 85.2% | Depressive disorders: | 130 | 23.5% |
| 18+: | 96 | 14.8% | Bipolar disorders: | 60 | 10.8% |
| | | | Anxiety disorders: | 69 | 12.5% |
| <u>Gender:</u> | <u>N</u> | <u>%</u> | Adjustment disorders: | 42 | 7.6% |
| Female: | 194 | 29.8% | Schizophrenic disorders: | 9 | 1.6% |
| Male: | 456 | 70.2% | Other: | 4 | 0.7% |
| | | | Excluded: | 21 | 3.8% |
| <u>Race/Ethnicity:</u> | <u>N</u> | <u>%</u> | Invalid: | 6 | |
| White: | 158 | 24.3% | Missing Diagnosis: | 90 | |
| Hispanic: | 388 | 59.7% | | | |
| Black: | 61 | 9.4% | <u>Dual Diagnosis:</u> | 227 | 34.9% |
| Asian/PI: | 6 | 0.9% | | | |
| Native Am.: | 7 | 1.1% | | | |
| Other: | 11 | 1.7% | | | |
| Unknown: | 19 | 2.9% | | | |

Use of Outpatient Services – Percent of CYFBHS-ADS clients using service, Mean Hours (Median Hours)

| | | |
|------------------------|-------|------------|
| Therapy: | 72.2% | 8.1 (5.0) |
| Assessment: | 49.8% | 4.2 (2.7) |
| Collateral: | 48.5% | 5.5 (1.5) |
| Medication Support: | 40.3% | 3.5 (2.7) |
| Case Management/Rehab: | 77.2% | 10.4 (6.3) |
| Crisis Services: | 2.3% | 1.2 (0.8) |
| TBS: | 2.0% | 21.1 (3.3) |

Use of Intensive Services – Percent of CYFBHS-ADS clients using service, Mean Days (Median Days)

| | | |
|-----------------------|-------|-----------|
| Day Treatment: | 20.0% | 55.5 (40) |
| Inpatient: | 6.3% | 8.2 (5) |
| Crisis Stabilization: | 6.0% | 2.2 (1.0) |

Appendix G: Service Utilization by Children with a Dual Diagnosis

969 youth who received CYFBHS services in FY 2013-14 (5.1% of total CYFBHS population) had a secondary substance abuse diagnosis entered in Anasazi. The majority of these children and youth received substance abuse counseling as a part of their EPSDT mental health services.

| Age: | N | % | | Primary Diagnosis: | N | % |
|------------------------|----------|----------|--|---------------------------|----------|----------|
| 0-5: | 0 | 0.0% | | ADHD: | 41 | 4.2% |
| 6-11: | 6 | 0.6% | | Oppositional/Conduct: | 297 | 30.8% |
| 12-17: | 749 | 77.3% | | Depressive disorders: | 280 | 29.0% |
| 18+: | 214 | 22.1% | | Bipolar disorders: | 97 | 10.1% |
| | | | | Anxiety disorders: | 87 | 9.0% |
| | | | | Adjustment disorders: | 58 | 6.0% |
| Gender: | N | % | | Schizophrenic disorders: | 28 | 2.9% |
| Female: | 339 | 35.0% | | Other: | 4 | 0.4% |
| Male: | 630 | 65.0% | | Excluded: | 73 | 7.6% |
| | | | | Invalid: | 4 | |
| Race/Ethnicity: | N | % | | Missing Diagnosis: | 0 | |
| White: | 181 | 18.7% | | | | |
| Hispanic: | 604 | 62.3% | | Dual Diagnosis: | 969 | 100.0% |
| Black: | 114 | 11.8% | | | | |
| Asian/PI: | 15 | 1.5% | | | | |
| Native Am.: | 12 | 1.2% | | | | |
| Other: | 18 | 1.9% | | | | |
| Unknown: | 25 | 2.6% | | | | |

Use of Outpatient Services – Percent of CYFBHS-DDx clients using service, Mean Hours (Median Hours)

| | | |
|------------------------|-------|------------|
| Therapy: | 75.6% | 7.9 (5.2) |
| Assessment: | 57.0% | 3.6 (2.6) |
| Collateral: | 50.2% | 4.1 (1.3) |
| Medication Support: | 43.6% | 2.9 (2.0) |
| Case Management/Rehab: | 69.8% | 9.9 (5.7) |
| Crisis Services: | 2.4% | 1.4 (1.1) |
| TBS: | 3.6% | 23.0 (7.8) |

Use of Intensive Services – Percent of CYFBHS-DDx clients using service, Mean Days (Median Days)

| | | |
|-----------------------|-------|-------------|
| Day Treatment: | 16.3% | 63.1 (34.5) |
| Inpatient: | 6.1% | 6.9 (5) |
| Crisis Stabilization: | 7.8% | 1.6 (1) |

Appendix H: Service Utilization by Children with a Co-occurring Substance Use Disorder

1,392 youth who received CYFBHS services in FY 2013-14 (7.3% of total CYFBHS population) had a co-occurring substance abuse problem, operationally defined as a dual diagnosis (a secondary substance abuse diagnosis) and/or involvement with Alcohol and Drug Services (ADS).

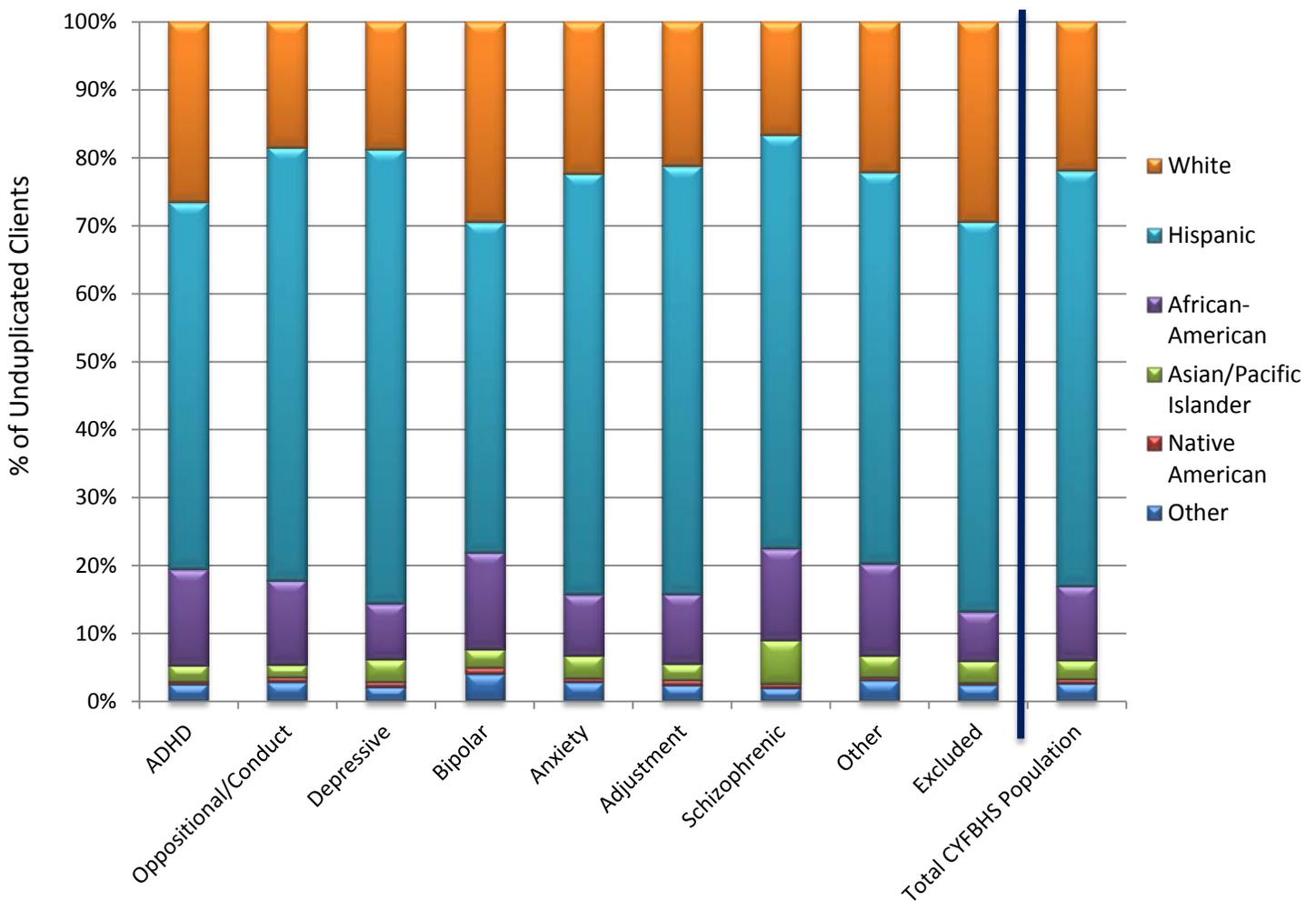
| Age: | N | % | | Primary Diagnosis: | N | % |
|--|----------|----------|--|---------------------------|----------|----------|
| 0-5: | 0 | 0.0% | | ADHD: | 78 | 6.0% |
| 6-11: | 6 | 0.4% | | Oppositional/Conduct: | 380 | 29.4% |
| 12-17: | 1117 | 80.2% | | Depressive disorders: | 363 | 28.1% |
| 18+: | 269 | 19.3% | | Bipolar disorders: | 134 | 10.4% |
| | | | | Anxiety disorders: | 133 | 10.3% |
| Gender: | N | % | | Adjustment disorders: | 89 | 6.9% |
| Female: | 458 | 32.9% | | Schizophrenic disorders: | 32 | 2.5% |
| Male: | 934 | 67.1% | | Other: | 8 | 0.6% |
| | | | | Excluded: | 75 | 5.8% |
| Race/Ethnicity: | N | % | | Invalid: | 10 | |
| White: | 283 | 20.3% | | Missing Diagnosis: | 90 | |
| Hispanic: | 849 | 61.0% | | | | |
| Black: | 159 | 11.4% | | Dual Diagnosis: | 969 | 69.6% |
| Asian/PI: | 19 | 1.4% | | | | |
| Native Am.: | 16 | 1.1% | | | | |
| Other: | 26 | 1.9% | | | | |
| Unknown: | 40 | 2.9% | | | | |
| | | | | | | |
| Use of Outpatient Services – Percent of CYFBHS-CoSub clients using service, Mean Hours (Median Hours) | | | | | | |
| Therapy: | | 73.1% | | 8.0 (5.1) | | |
| Assessment: | | 52.7% | | 3.8 (2.7) | | |
| Collateral: | | 47.8% | | 4.7 (1.4) | | |
| Medication Support: | | 41.7% | | 3.1 (2.2) | | |
| Case Management/Rehab: | | 71.3% | | 10.0 (5.7) | | |
| Crisis Services: | | 2.5% | | 1.4 (1.0) | | |
| TBS: | | 3.2% | | 22.4 (4.9) | | |
| | | | | | | |
| Use of Intensive Services – Percent of CYFBHS-CoSub clients using service, Mean Days (Median Days) | | | | | | |
| Day Treatment: | | 17.2% | | 60.6 (38) | | |
| Inpatient: | | 6.4% | | 7.5 (5) | | |
| Crisis Stabilization: | | 7.0% | | 1.7 (1) | | |

Appendix I: Examination of Primary Diagnosis by Client Characteristics

The diagnosis categories are examined by race/ethnicity in **Figure H.1**. The racial/ethnic breakdown for the total CYFBHS sample is displayed on the far right for comparison purposes. There are differences in the distribution of diagnoses by racial/ethnic groups, with a large difference seen in the Bipolar disorders: almost 30% of youth diagnosed with Bipolar disorder are White, although White clients comprise 20% of the total CYFBHS population. These results are similar to the patterns seen in the past five years, indicating that the distribution is consistent over time.

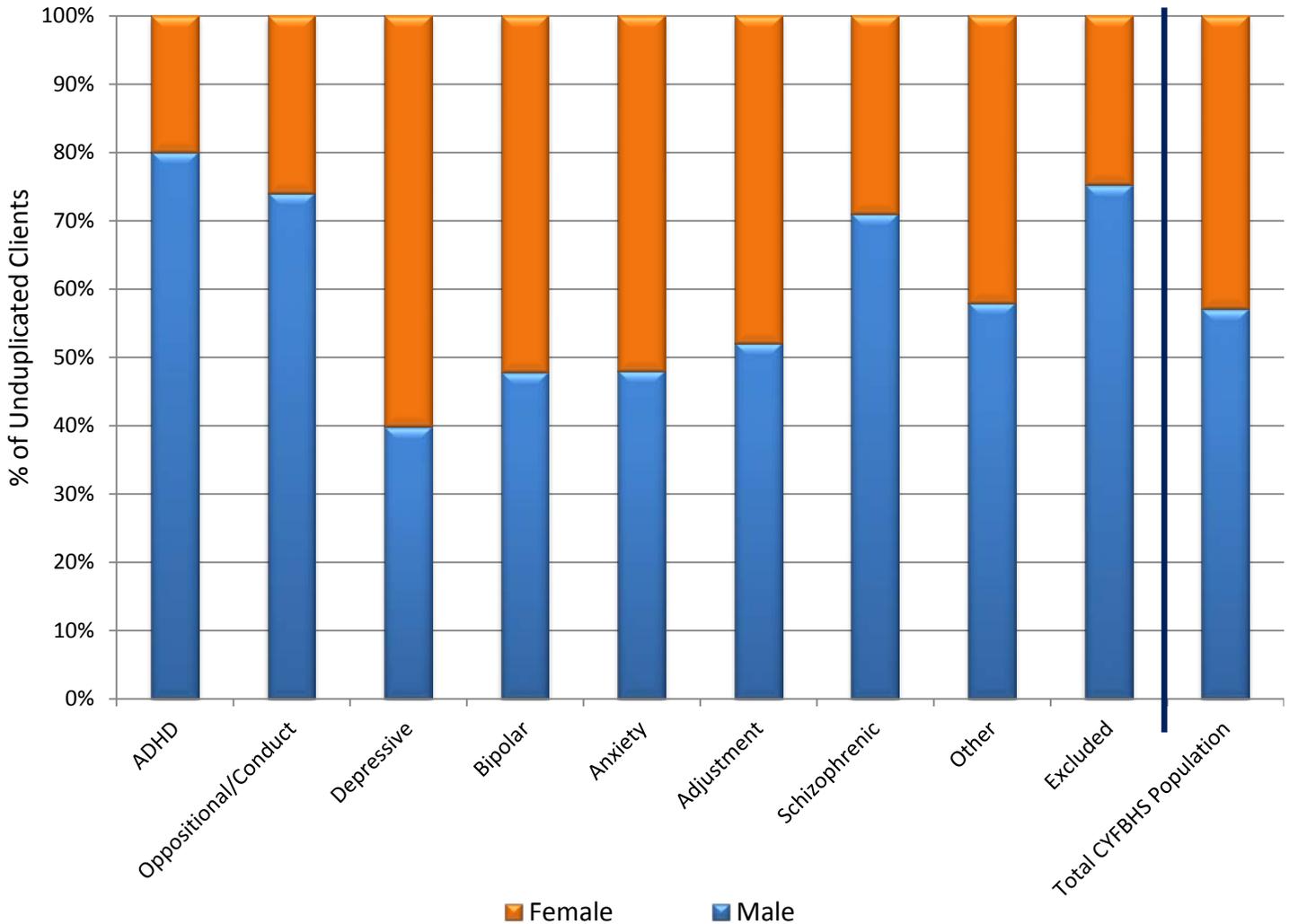
Although there is limited research on the racial/ethnic differences in the mental health diagnoses of children, several research studies have shown differences in mental health diagnosis along racial / ethnic lines. One of the most consistent findings is that African American youth tend to be more often diagnosed with disruptive behavior disorders.¹⁻³ In addition, several studies, including a Veterans Administration study involving over 100,000 veterans, have found that African-American adults are underdiagnosed with Bipolar disorders.⁴⁻⁸

Figure H.1: Diagnosis by Race/Ethnicity



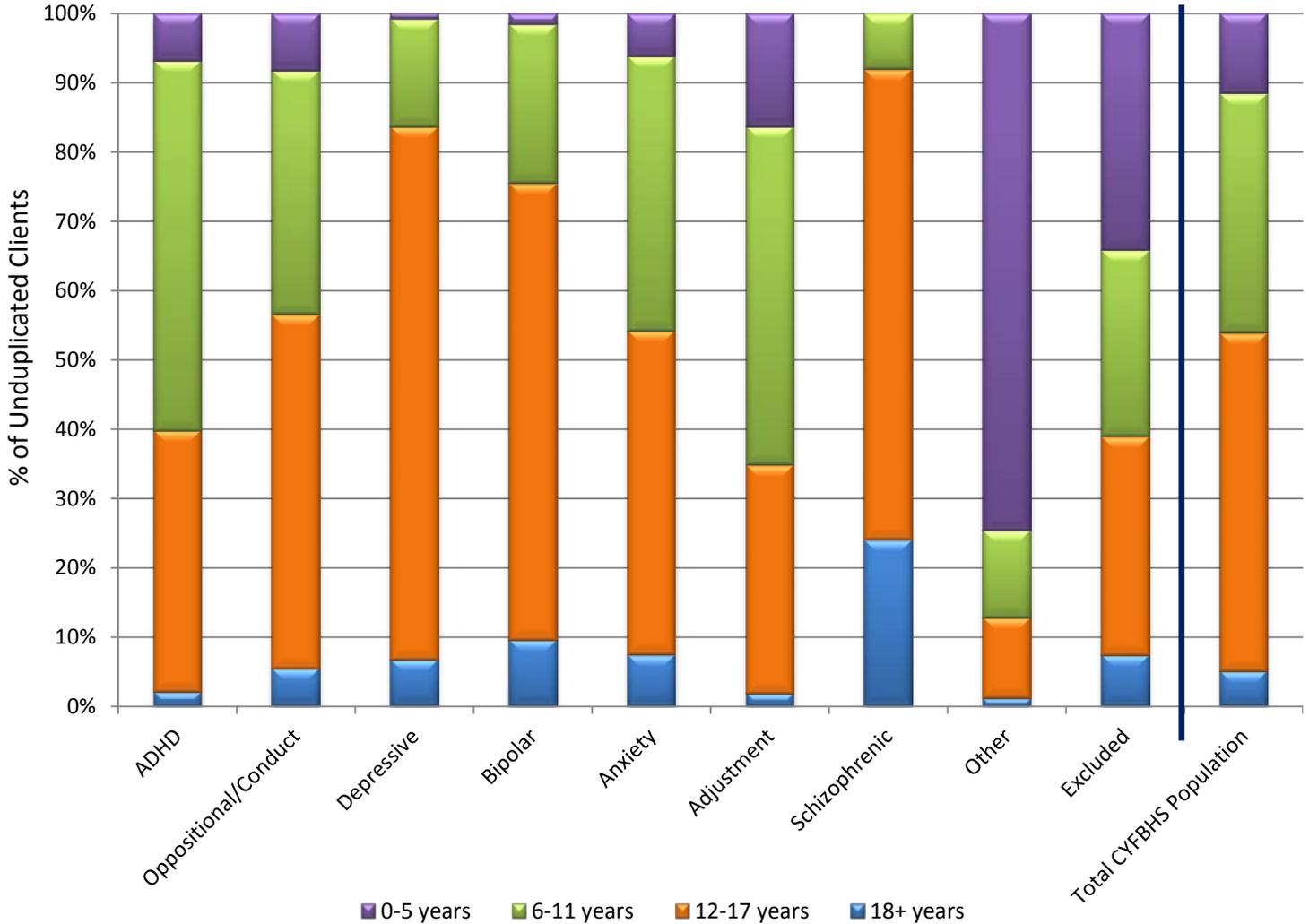
The patterns of diagnosis are significantly different by gender. Males are more likely to be diagnosed with externalizing disorders, such as ADHD or Oppositional disorders, while females are more likely to be diagnosed with internalizing disorders, such as depressive or anxiety disorders, as compared to their distribution in the total sample (**Figure H.2**). Again, these results are similar to the patterns over the past five years, indicating that the distribution is consistent over time. This is also consistent with previous research, which has found ADHD more likely recognized in boys, who tend to exhibit externalizing symptoms (i.e. disruptive behavior), than in girls, who are more likely to exhibit internalizing symptoms (i.e. inattentive behavior).⁹

Figure H.2: Primary Diagnosis by Gender



When diagnoses are examined by age, significant differences are present (**Figure H.3**). Young children (age 0-5) are being diagnosed with Title 9 excluded diagnoses and diagnoses that fall in the *Other* category at a markedly higher rate, compared to other age ranges. Elementary age children (age 6-11) are presenting most often with ADHD and adjustment disorders; schizophrenic, depressive, and bipolar disorders are predominately diagnosed in adolescents. Finally, youth, ages 18 and older, who continue to be served through CYFBHS are most likely to have a diagnosis of schizophrenia. These patterns are consistent with those found in the previous five years.

Figure H.3: Primary Diagnosis by Age



These results are also consistent with national data on the onset of mental health disorders. The median age for onset of ADHD is seven years, while the median age of onset for an anxiety disorder is age 11.¹⁰ The onset of mood disorders (depressive, bipolar) is later than the onset of anxiety disorder. Schizophrenia often first appears in men in their late teens or early twenties, while women are generally affected in their twenties or early thirties.¹¹ Symptoms of many mental health disorders begin in childhood and adolescence, resulting in calls for increased prevention and early intervention efforts for children.

In summary, the distribution of diagnoses in the FY 2013-14 CYFBHS sample, as well as the relationship of diagnoses with race/ethnicity, gender, and age, is very similar to those found over the past five years. This would indicate that the patterns accurately reflect what is occurring in the system and that no major changes in diagnostic patterns occurred over the five-year period.

Appendix J: Detailed Service Utilization Data Tables

Table I.1: Outpatient Service Utilization by Diagnosis^a

| Diagnosis | N | Therapy | | | Assessment | | | Collateral | | | Medication Support | | |
|---------------|-------|---------|-------|--------|------------|-------|--------|------------|-------|--------|--------------------|-------|--------|
| | | | Mean | Median | | Mean | Median | | Mean | Median | | Mean | Median |
| | | % | Hours | Hours | % | Hours | Hours | % | Hours | Hours | % | Hours | Hours |
| Total Sample | 19010 | 72.8% | 8.7 | 6.8 | 66.3% | 3.1 | 2.5 | 46.7% | 3.7 | 1.5 | 29.6% | 3.1 | 2.2 |
| ADHD | 2489 | 70.7% | 8.7 | 6.9 | 60.9% | 3.0 | 2.2 | 47.4% | 4.1 | 1.8 | 60.5% | 2.7 | 2.1 |
| Opp/Conduct | 2697 | 79.7% | 8.7 | 6.8 | 66.5% | 3.2 | 2.5 | 57.0% | 3.5 | 1.5 | 29.2% | 3.5 | 2.3 |
| Depressive | 3669 | 78.6% | 8.7 | 6.8 | 70.2% | 3.5 | 2.8 | 55.1% | 3.3 | 1.3 | 31.4% | 3.0 | 2.1 |
| Bipolar | 1089 | 67.4% | 9.7 | 7.5 | 64.6% | 3.8 | 2.8 | 53.3% | 4.1 | 1.9 | 54.4% | 4.0 | 2.9 |
| Anxiety | 2364 | 81.8% | 9.7 | 8.1 | 73.2% | 3.0 | 2.5 | 53.3% | 3.3 | 1.4 | 31.9% | 3.0 | 2.2 |
| Adjustment | 3543 | 80.1% | 8.8 | 7.1 | 72.7% | 2.5 | 2.0 | 45.7% | 4.3 | 1.7 | 9.8% | 2.8 | 1.6 |
| Schizophrenic | 162 | 59.3% | 9.5 | 7.1 | 56.2% | 4.6 | 3.3 | 54.9% | 6.0 | 2.3 | 69.1% | 4.8 | 3.6 |
| Other | 928 | 31.5% | 10.3 | 7.8 | 87.9% | 3.0 | 2.5 | 20.8% | 4.7 | 2.3 | 10.5% | 3.2 | 2.6 |
| Excluded | 405 | 50.9% | 9.0 | 7.0 | 71.6% | 3.7 | 3.8 | 33.3% | 4.3 | 1.8 | 29.9% | 2.9 | 1.9 |

| Diagnosis | N | Case Management | | | Crisis Services | | | TBS | | |
|---------------|-------|-----------------|-------|--------|-----------------|-------|--------|-------|-------|--------|
| | | | Mean | Median | | Mean | Median | | Mean | Median |
| | | % | Hours | Hours | % | Hours | Hours | % | Hours | Hours |
| Total Sample | 19010 | 39.8% | 7.4 | 2.9 | 2.4% | 1.6 | 1.3 | 5.5% | 38.8 | 27.3 |
| ADHD | 2489 | 36.2% | 8.4 | 2.8 | 1.0% | 1.1 | 1.0 | 6.1% | 44.7 | 36.0 |
| Opp/Conduct | 2697 | 46.5% | 8.6 | 3.7 | 2.4% | 1.9 | 1.1 | 8.1% | 39.3 | 31.5 |
| Depressive | 3669 | 46.6% | 7.2 | 3.0 | 4.9% | 1.7 | 1.6 | 6.4% | 34.4 | 22.3 |
| Bipolar | 1089 | 50.2% | 9.5 | 3.7 | 4.7% | 1.6 | 1.0 | 10.6% | 48.0 | 37.3 |
| Anxiety | 2364 | 40.3% | 8.1 | 3.1 | 2.8% | 1.7 | 1.3 | 5.0% | 38.1 | 22.0 |
| Adjustment | 3543 | 35.0% | 5.1 | 2.1 | 1.2% | 1.2 | 1.1 | 4.4% | 29.4 | 20.5 |
| Schizophrenic | 162 | 52.5% | 9.8 | 4.9 | 9.3% | 1.7 | 1.9 | 8.6% | 51.8 | 36.7 |
| Other | 928 | 12.6% | 4.9 | 1.8 | 0.4% | 1.4 | 1.6 | 1.5% | 42.5 | 44.1 |
| Excluded | 405 | 29.6% | 8.7 | 4.4 | 0.2% | -- | -- | 5.4% | 51.3 | 48.0 |

^aYouth with an invalid or missing diagnosis are excluded from these analyses.

Table I.2: Intensive Levels of Service Utilization by Diagnosis^a

| Diagnosis | N | Inpatient | | | Day Treatment | | | Crisis Stabilization | | |
|---------------|-------|-----------|------|--------|---------------|-------|--------|----------------------|------|--------|
| | | | Mean | Median | | Mean | Median | | Mean | Median |
| | | % | Days | Days | % | Days | Days | % | Days | Days |
| Total Sample | 19010 | 4.4% | 9.9 | 5.0 | 6.6% | 74.7 | 43.0 | 5.5% | 1.7 | 1.0 |
| ADHD | 2489 | 0.6% | 9.1 | 6.5 | 5.7% | 78.7 | 58.0 | 1.2% | 1.3 | 1.0 |
| Opp/Conduct | 2697 | 2.9% | 11.1 | 7.0 | 6.0% | 87.5 | 66.0 | 5.3% | 2.0 | 1.0 |
| Depressive | 3669 | 11.2% | 8.5 | 5.0 | 5.9% | 82.4 | 49.5 | 14.1% | 1.6 | 1.0 |
| Bipolar | 1089 | 13.4% | 11.3 | 6.0 | 20.2% | 115.9 | 105.5 | 11.7% | 2.2 | 2.0 |
| Anxiety | 2364 | 2.6% | 9.9 | 5.0 | 4.6% | 91.9 | 71.0 | 3.1% | 1.7 | 1.0 |
| Adjustment | 3543 | 0.8% | 8.5 | 5.0 | 9.1% | 19.1 | 6.0 | 2.5% | 1.4 | 1.0 |
| Schizophrenic | 162 | 29.0% | 18.6 | 9.0 | 15.4% | 112.6 | 109.0 | 21.6% | 1.8 | 2.0 |
| Other | 928 | 0.2% | 4.0 | 4.0 | 3.7% | 117.5 | 104.0 | 0.4% | 1.5 | 1.5 |
| Excluded | 405 | 2.0% | 10.4 | 8.0 | 4.4% | 57.3 | 27.0 | 3.0% | 1.7 | 1.0 |

^aYouth with an invalid or missing diagnosis are excluded from these analyses.

Table I.3: Outpatient Service Utilization by Race/Ethnicity^b

| Race/ Ethnicity | N | Therapy | | | Assessment | | | Collateral | | | Medication Support | | |
|----------------------------|-------|---------|-------|--------|------------|-------|--------|------------|-------|--------|--------------------|-------|--------|
| | | | Mean | Median | | Mean | Median | | Mean | Median | | Mean | Median |
| | | % | Hours | Hours | % | Hours | Hours | % | Hours | Hours | % | Hours | Hours |
| Total Sample | 19010 | 72.8% | 8.7 | 6.8 | 66.3% | 3.1 | 2.5 | 46.7% | 3.7 | 1.5 | 29.6% | 3.1 | 2.2 |
| White | 3741 | 73.8% | 9.7 | 7.7 | 63.3% | 3.2 | 2.3 | 46.5% | 4.2 | 1.7 | 39.5% | 3.2 | 2.5 |
| Hispanic | 10607 | 76.7% | 8.7 | 7.0 | 67.4% | 3.2 | 2.6 | 52.6% | 3.4 | 1.5 | 26.9% | 2.8 | 2.0 |
| Black | 1891 | 68.5% | 9.1 | 6.8 | 58.1% | 3.3 | 2.6 | 44.2% | 5.1 | 2 | 37.7% | 3.9 | 2.8 |
| Asian/ Pacific Islander | 487 | 68.0% | 8.4 | 6.7 | 63.7% | 3.0 | 2.7 | 44.8% | 3.2 | 1.5 | 28.7% | 3.2 | 2.3 |
| Native American | 114 | 74.6% | 8.8 | 7.5 | 78.1% | 4.3 | 2.8 | 57.9% | 3.8 | 1.3 | 37.7% | 5.3 | 4.5 |
| Other | 482 | 65.8% | 7.2 | 5.1 | 59.8% | 3.1 | 2.3 | 45.9% | 2.9 | 1.6 | 26.8% | 3.4 | 2.5 |
| Unknown | 1659 | 55.5% | 5.5 | 4.0 | 78.7% | 1.8 | 0.8 | 13.0% | 3.3 | 1.2 | 16.5% | 1.9 | 1.4 |

| Race/Ethnicity | N | Case Management | | | Crisis Services | | | TBS | | |
|----------------------------|-------|-----------------|-------|--------|-----------------|-------|--------|------|-------|--------|
| | | | Mean | Median | | Mean | Median | | Mean | Median |
| | | % | Hours | Hours | % | Hours | Hours | % | Hours | Hours |
| Total Sample | 19010 | 39.8% | 7.4 | 2.9 | 2.4% | 1.6 | 1.3 | 5.5% | 38.8 | 27.3 |
| White | 3741 | 36.7% | 8.3 | 2.8 | 3.0% | 1.5 | 1.3 | 6.2% | 44.1 | 33.0 |
| Hispanic | 10607 | 45.2% | 7.0 | 3.0 | 2.3% | 1.6 | 1.3 | 5.6% | 37.3 | 26.5 |
| Black | 1891 | 45.5% | 8.9 | 3.7 | 3.3% | 1.9 | 1.2 | 8.2% | 38.5 | 21.7 |
| Asian/ Pacific Islander | 487 | 39.0% | 5.7 | 2.5 | 3.1% | 1.3 | 1.2 | 4.3% | 39.5 | 29.2 |
| Native American | 114 | 43.9% | 13.2 | 4.1 | 4.4% | 0.8 | 0.5 | 8.8% | 47.8 | 38.3 |
| Other | 482 | 35.9% | 6.3 | 2.7 | 1.7% | 2.6 | 2.0 | 5.0% | 27.1 | 24.6 |
| Unknown | 1659 | 7.4% | 5.8 | 1.7 | 0.1% | 0.5 | 0.5 | 1.0% | 34.7 | 27.6 |

^bYouth with a missing race/ethnicity code are excluded from these analyses.

Table I.4: Intensive Service Utilization by Race/Ethnicity^b

| Race/Ethnicity | N | Inpatient | | | Day Treatment | | | Crisis Stabilization | | |
|----------------------------|-------|-----------|------|--------|---------------|------|--------|----------------------|------|--------|
| | | | Mean | Median | | Mean | Median | | Mean | Median |
| | | % | Days | Days | % | Days | Days | % | Days | Days |
| Total Sample | 19010 | 4.4% | 9.9 | 5.0 | 6.6% | 74.7 | 43.0 | 5.5% | 1.7 | 1.0 |
| White | 3741 | 6.5% | 10.7 | 6.0 | 7.8% | 79.2 | 49.0 | 5.8% | 1.8 | 1.0 |
| Hispanic | 10607 | 3.9% | 9.1 | 5.0 | 5.3% | 65.0 | 34.0 | 5.6% | 1.7 | 1.0 |
| Black | 1891 | 4.9% | 10.9 | 6.0 | 16.0% | 89.2 | 55.5 | 7.7% | 1.7 | 1.0 |
| Asian/ Pacific Islander | 487 | 6.4% | 10.7 | 5.0 | 6.4% | 97.1 | 105.0 | 10.3% | 1.5 | 1.0 |
| Native American | 114 | 2.6% | 10.7 | 6.0 | 14.0% | 74.0 | 51.0 | 6.1% | 1.7 | 2.0 |
| Other | 482 | 6.0% | 11.4 | 6.0 | 7.9% | 62.2 | 12.5 | 4.8% | 2.0 | 1.0 |
| Unknown | 1659 | 1.6% | 6.9 | 4.0 | 0.6% | 36.6 | 14.0 | 0.3% | 1.2 | 1.0 |

^bYouth with a missing race/ethnicity code are excluded from these analyses.

Appendix K: References

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