Supplemental Table 1: Description of internalizing and externalizing disorder case definitions, Project to Learn About Youth-Mental Health

|  |  |  |
| --- | --- | --- |
| DISC symptom criteria in past year only | DISC symptom and impairmenta in past year criteria | DISC symptom and impairmenta criteria in past year plus teacher report of symptoms |
| Panic disorder  Obsessive-compulsive disorder | Social phobia  Separation anxiety  Agoraphobia  Generalized anxiety  Post-traumatic stress disorder  Major depressive disorder  Dysthymic disorder  Mania  Hypomania  Oppositional defiant disorder  Conduct disorder | Attention-deficit/hyperactivity disorder (ADHD) + 2 or more teacher-reported ADHD symptomsb:  BASC-2-BESS  Pays attention (response=never)  Is well organized (response=never)  Completes assignments incorrectly because of not following instructions (response=always or often)  Is easily distracted from class work (response=always or often)  Disrupts other children’s activities (response=always or often)  Has trouble concentrating (response=always or often)  Has a short attention span (response=always or often)  SDQ  Restless, overactive, cannot stay still for long (response=certainly true)  Constantly fidgeting or squirming (response=certainly true)  Easily distracted, concentration wanders (response=certainly true)  Thinks things out before acting (response=not true)  Good attention span, sees work through to the end (response=not true) |

DISC: Diagnostic Interview Schedule for Children; BASC-2-BESS: BASC-2-Behavioral and Emotional Screening System; SDQ: Strengths and Difficulties Questionnaire

a Meeting impairment criteria was based on report of at least 2 domains with moderate impairment or at least 1 domain with severe impairment among these six domains for the specified disorders symptoms: (1) caretaker annoyed or upset because of disorder symptoms, (2) symptoms keep child from doing things or going place with family, (3) symptoms kept child from doing things or going places with other children of the same age, (4) disorder symptoms caused problems with schoolwork or work, (5) teachers annoyed or upset with child because of disorder symptoms, (6) disorder symptoms seemed to make child feel bad or very bad.

b Due to which screeners were collected with usable data in Stage 1, the ADHD case definition includes only the BASC-2-BESS symptoms for Colorado and only the SDQ symptoms for South Carolina. The case definition for Florida and Ohio includes 2 or more ADHD symptoms on the BASC-2-BESS or 2 or more ADHD symptoms on the SDQ.

Supplemental Table 2: Demographic characteristics of the children and adolescents included in Stage 1 and Stage 2 at each site,

Project to Learn About Youth-Mental Health, 2014–2018

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Colorado** | | | **Florida** | | |
| Stage 1  Unweighted  n (%) | Stage 2 Unweighted  n (%) | Stage 2  Weighted  % (95% CI) | Stage 1  Unweighted  n (%) | Stage 2 Unweighted  n (%) | Stage 2  Weighted  % (95% CI) |
| ***Sex*** |  |  |  |  |  |  |
| Male | 2,229 (53.1%) | 131 (54.8%) | 52.6 (46.1, 59.1) | 2,868 (49.9%) | 154 (52.6%) | 50.6 (44.7, 56.4) |
| Female | 1,968 (46.9%) | 108 (45.2%) | 47.4 (40.9, 53.9) | 2,876 (50.1%) | 139 (47.4%) | 49.4 (43.6, 55.3) |
| *Missing a* | *1* |  |  |  |  |  |
| ***Grade level*** |  |  |  |  |  |  |
| K-5th (elementary school) | 2,140 (51.0%) | 151 (63.2%) | 45.3 (38.9, 51.9) | 1,443 (25.1%) | 163 (55.6%) | 26.3 (21.4, 31.8) |
| 6th-8th (middle school) | 1,414 (33.7%) | 65 (27.2%) | 33.7 (26.9, 41.0) | 1,417 (24.7%) | 53 (18.1%) | 31.6 (22.1, 42.3) |
| 9th-12th (high school) | 644 (15.3%) | 23 (9.6%) | 21.0 (12.7, 31.6) | 2,884 (50.2%) | 77 (26.3%) | 42.1 (33.9, 50.6) |
| ***Ethnicity/race*** |  |  |  |  |  |  |
| Non-Hispanic white | 697 (16.6%) | 30 (12.6%) | 14.4 (9.1, 21.3) | 2,506 (43.6%) | 132 (45.1%) | 44.4 (35.3, 53.7) |
| Other race/ethnicity | 3,496 (83.4%) | 209 (87.4%) | 85.6 (78.7, 90.9) | 3,238 (56.4%) | 161 (54.9%) | 55.6 (46.3, 64.7) |
| Non-Hispanic black | 781 (18.6%) | 34 (14.2%) | 14.8 (9.8, 21.0) | 2,326 (40.5%) | 100 (34.1%) | 38.2 (30.7, 46.2) |
| Hispanic | 1,890 (45.1%) | 141 (59.0%) | 58.8 (50.2, 67.0) | 533 (9.3%) | 32 (10.9%) | 10.0 (5.4, 16.6) |
| All other race/ethnicity | 825 (19.7%) | 34 (14.2%) | 12.0 (7.7, 17.5) | 379 (6.6%) | 29 (9.9%) | 7.4 (4.5, 11.3) |
| *Missinga* | *5* |  |  |  |  |  |
| ***Insurance type b*** |  |  |  |  |  |  |
| Non-Medicaid insurance |  | 60 (25.2%) | 27.3 (19.9, 35.7) |  | 172 (59.1%) | 57.9 (49.4, 66.2) |
| Medicaid insurance |  | 161 (67.7%) | 61.6 (52.4, 70.2) |  | 108 (37.1%) | 38.2 (30.2, 46.6) |
| No insurance |  | 17 (7.1%) | 11.2c (5.2, 20.2) |  | 11 (3.8%) | 3.9c (1.6, 7.9) |
| *Missing a* |  | *1* |  |  | *2* |  |
| ***Highest level of parent education b*** |  |  |  |  |  |  |
| High school diploma or less |  | 123 (51.5%) | 51.1 (42.1, 60.1) |  | 64 (21.8%) | 24.9 (18.4, 32.3) |
| At least some college or technical school |  | 116 (48.5%) | 48.9 (39.9, 57.9) |  | 229 (78.2%) | 75.1 (67.7, 81.6) |
| ***Free/reduced price lunch*** |  |  |  |  |  |  |
| Yes | 2,978 (71.0%) | 186 (77.8%) | 74.9 (66.9, 81.8) | 2,554 (44.5%) | 121 (41.3%) | 44.4 (35.4, 53.6) |
| No | 1,215 (29.0%) | 53 (22.2%) | 25.1 (18.2, 33.1) | 3,190 (55.5%) | 172 (58.7%) | 55.6 (46.4, 64.6) |
| *Missing a* | *5* |  |  |  |  |  |
| ***Federal poverty levelb,d*** |  |  |  |  |  |  |
| <200% |  | 181 (78.7%) | 77.0 (69.0, 83.8) |  | 114 (41.2%) | 41.3 (33.2, 49.7) |
| ≥200% |  | 49 (21.3%) | 23.0 (16.2, 31.0) |  | 163 (58.8%) | 58.7 (50.3, 66.8) |
| *Missing a* |  | *9* |  |  |  |  |
| ***Screening status*** |  |  |  |  |  |  |
| High risk | 1,260 (30.0%) | 120 (50.2%) | 29.2 (23.5, 35.4) | 1,978 (34.4%) | 128 (43.7%) | 35.4 (29.9, 41.2) |
| Low risk | 2,938 (70.0%) | 119 (49.8%) | 70.8 (64.6, 76.5) | 3,766 (65.6%) | 165 (56.3%) | 64.6 (58.8, 70.1) |

Table 2 continued

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Ohio** | | | **South Carolina** | | | |
| Stage 1  Unweighted  n (%) | Stage 2 Unweighted  n | Stage 2  Weighted  % (95% CI) | Stage 1  Unweighted  n (%) | Stage 2 Unweighted  n | | Stage 2  Weighted  % (95% CI) |
| ***Sex*** |  |  |  |  |  | |  |
| Male | 2,468 (53.3%) | 80 (50.0%) | 52.2 (44.1, 60.1) | 3,742 (51.9%) | 153 (55.4%) | | 52.0 (46.0, 58.1) |
| Female | 2,166 (46.7%) | 80 (50.0%) | 47.8 (39.9, 55.9) | 3,465 (48.1%) | 123 (44.6%) | | 48.0 (41.9, 54.0) |
| ***Grade level*** |  |  |  |  |  | |  |
| K-5th (elementary school) | 1,736 (37.5%) | 90 (56.3%) | 48.5 (40.5, 56.5) | 3,691 (51.2%) | 161 (58.3%) | | 47.2 (41.2, 53.3) |
| 6th-8th (middle school) | 1,299 (28.0%) | 24 (15.0%) | 22.8 (13.1, 35.2) | 1,740 (24.1%) | 73 (26.5%) | | 23.2 (17.2, 30.2) |
| 9th-12th (high school) | 1,599 (34.5%) | 46 (28.8%) | 28.7 (21.0, 37.5) | 1,776 (24.6%) | 42 (15.2%) | | 29.6 (21.0, 39.3) |
| ***Ethnicity/race*** |  |  |  |  |  | |  |
| Non-Hispanic white | 4,405 (95.1%) | 138 (86.3%) | 87.2 (78.9, 93.1) | 4,620 (64.1%) | 144 (52.2%) | | 59.1 (49.8, 67.9) |
| Other race/ethnicity | 229 (4.9%) | 22 (13.8%) | 12.8 (6.9, 21.1) | 2,587 (35.9%) | 132 (47.8%) | | 40.9 (32.1, 50.2) |
| Non-Hispanic black |  | e |  | 1,953 (27.1%) | 100 (36.2%) | | 25.7 (19.3, 33.1) |
| Hispanic |  | e |  | 340 (4.7%) | 6 (2.2%) | | 5.0f (1.1, 13.3) |
| All other race/ethnicity |  | 16 (10.0%) | 9.4b (4.2, 17.4) | 294 (4.1%) | 26 (9.4%) | | 10.2 (5.3, 17.3) |
| ***Insurance type b*** |  |  |  |  |  | |  |
| Non-Medicaid insurance |  | 73 (48.7%) | 47.6 (37.5, 57.9) |  | 93 (33.7%) | | 46.8 (37.4, 56.3) |
| Medicaid insurance |  | 73 (48.7%) | 50.7 (40.4, 60.9) |  | 173 (62.7%) | | 50.0 (40.6, 59.4) |
| No insurance |  | 4 (2.7%) | 1.7c (0.3, 5.2) |  | 10 (3.6%) | | 3.2c (1.2, 6.9) |
| *Missing a* |  | *10* |  |  | |  |  |
| ***Highest level of parent education b*** |  |  |  |  |  | |  |
| High school diploma or less |  | 35 (21.9%) | 23.8 (16.0, 33.2) |  | 84 (30.4%) | | 21.6 (15.1, 29.4) |
| At least some college or technical school |  | 125 (78.1%) | 76.2 (66.8, 84.0) |  | 192 (69.6%) | | 78.4 (70.6, 84.9) |
| ***Free/reduced price lunch*** |  |  |  |  |  | |  |
| Yes | 2,167 (46.8%) | 78 (48.8%) | 48.2 (38.0, 58.5) | 4,145 (57.5%) | 204 (73.9%) | | 57.5 (47.5, 67.0) |
| No | 2,467 (53.2%) | 82 (51.3%) | 51.8 (41.5, 62.0) | 3,062 (42.5%) | 72 (26.1%) | | 42.5 (33.0, 52.5) |
| ***Federal poverty levelb, d*** |  |  |  |  |  | |  |
| <200% |  |  |  |  | 177 (66.3%) | | 54.8 (44.9, 64.4) |
| ≥200% |  |  |  |  | 90 (33.7%) | | 45.2 (35.6, 55.1) |
| *Missing a* |  |  |  |  | *9* | |  |
| ***Screening status*** |  |  |  |  |  | |  |
| High risk | 1,215 (26.2%) | 53 (33.1%) | 26.9 (20.2, 34.5) | 1,285 (17.8%) | 163 (59.1%) | | 17.4 (13.1, 22.4) |
| Low risk | 3,419 (73.8%) | 107 (66.9%) | 73.1 (65.5, 79.8) | 5,922 (82.2%) | 113 (40.9%) | | 82.6 (77.6, 86.9) |

CI: confidence interval

a The number of students with missing values for an indicator is noted in the relevant column, but is not included in the calculation of the associated column percentage.

b Indicator not collected in Stage 1;

c Relative standard error (RSE; standard error/estimate x 100%) is between 30% and 50%; estimate is unstable and may be unreliable, therefore it should be interpreted with caution.

d Ohio site did not collect information used to calculate relationship of household income to federal poverty level

e Fewer than 5 participants in demographic group; number is suppressed to protect confidentiality

f RSE is larger than 50%; estimate is unreliable and should not be used except for inferential statistics (e.g. comparisons with other estimates)

Supplemental Table 3: Weighted prevalence estimates of externalizing and internalizing disorders in the past year based on symptom criteria with and without impairment by site, Project to Learn About Youth-Mental Health, 2014–2018

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Using DISC symptom criteria only | | | | Using DISC symptom + impairment criteria | | | |
|  | **Colorado**  Weighted  % (95% CI) | **Florida**  Weighted  % (95% CI) | **Ohio**  Weighted  % (95% CI) | **South Carolina**  Weighted  % (95% CI) | **Colorado**  Weighted  % (95% CI) | **Florida**  Weighted  % (95% CI) | **Ohio**  Weighted  % (95% CI) | **South Carolina**  Weighted  % (95% CI) |
| Any disordera | 21.6 (15.2, 29.2) | 27.8 (20.5, 36.0) | 43.3 (33.3, 53.8) | 28.6 (21.7, 36.3) | 15.4 (10.8, 21.0) | 20.0 (14.6, 26.2) | 38.8 (29.3, 49.1) | 23.1 (17.0, 30.3) |
| Any externalizing disordera | 14.6 (10.0, 20.3) | 14.9 (10.7, 20.1) | 35.6 (26.3, 45.7) | 21.6 (15.6, 28.5) | 10.8 (7.1, 15.5) | 13.3 (9.3, 18.3) | 32.2 (23.0, 42.4) | 17.7 (12.3, 24.4) |
| ADHD | 7.9 (4.8, 12.2) | 8.7 (5.6, 12.6) | 26.9 (18.3, 36.9) | 18.0 (12.5, 24.5) | 6.8 (3.9, 10.8) | 8.1 (5.1, 12.1) | 25.4 (16.9, 35.5) | 14.6 (9.6, 21.0) |
| ADHD (DISC + teacher report)b |  |  |  |  | 5.6 (3.1, 9.4) | 5.1 (2.9, 8.3) | 9.4 (5.3, 15.3) | 6.7 (4.0, 10.4) |
| Any disruptive behavioral disorder | 10.3 (6.4, 15.4) | 9.6 (6.2, 14.1) | 19.9 (12.4, 29.3) | 8.4 (5.2, 12.7) | 6.9 (4.0, 11.0) | 8.5 (5.2, 12.8) | 17.9 (10.7, 27.3) | 6.2 (3.7, 9.8) |
| ODD | 9.9 (6.1, 14.9) | 7.5 (4.7, 11.4) | 19.3 (11.9, 28.7) | 8.4 (5.2, 12.7) | 6.8 (3.9, 10.8) | 6.9 (4.1, 10.8) | 17.3 (10.2, 26.7) | 5.7 (3.3, 9.2) |
| Conduct disorder | 1.8c (0.5, 4.4) | 3.0c (1.2, 6.1) | d | 2.9c (1.1, 6.0) | 1.5c (0.4, 4.0) | 2.4c (0.9, 5.2) | d | 2.1c (0.7, 4.6) |
| Any internalizing disordera, e | 14.1 (8.5, 21.7) | 16.9 (10.5, 25.0) | 19.3 (12.2, 28.3) | 13.5 (9.0, 19.1) | 8.7 (5.1, 13.7) | 10.0 (6.0, 15.3) | 14.7 (8.7, 22.7) | 10.7 (6.9, 15.6) |
| Any anxiety disordere | 13.3 (7.7, 20.9) | 15.5 (9.3, 23.7) | 14.1 (7.9, 22.5) | 11.7 (7.5, 17.2) | 7.9 (4.4, 12.9) | 8.6 (4.9, 13.9) | 11.2 (5.9, 18.7) | 8.9 (5.4, 13.7) |
| Social phobia | 6.6c (3.1, 11.8) | 8.4c (3.4, 16.5) | f | 6.3 (3.3, 10.8) | 5.2c (2.3, 10.0) | 3.4c (1.5, 6.7) | f | 5.4c (2.6, 9.9) |
| Separation anxiety | 3.8 (1.8, 7.1) | 4.0c (1.7, 7.9) | 7.4c (3.1, 14.2) | 6.3 (3.3, 10.7) | 2.9c (1.2, 5.9) | 3.0c (1.0, 7.0) | 6.1c (2.3, 12.9) | 3.3c (1.4, 6.4) |
| Any depressive disorder | 2.9c (1.0, 6.4) | 2.6c (0.9, 5.6) | 5.4c (1.9, 11.7) | 2.1c (0.7, 4.9) | 1.5c (0.4, 4.1) | 2.4c (0.8, 5.5) | 3.7c (1.0, 8.9) | 2.0c (0.6, 4.8) |

DISC: Diagnostic Interview Schedule for Children; CI: confidence interval; ADHD: attention-deficit/hyperactivity disorder; ODD: oppositional defiant disorder

a Externalizing disorders include ADHD, conduct disorder, and ODD. Internalizing disorders include generalized anxiety disorder, social phobia, separation anxiety, panic disorder, obsessive-compulsive disorder, agoraphobia, post-traumatic stress disorder, major depressive disorder, dysthymic disorder, mania and hypomania.

b The study case definition for ADHD required meeting DISC symptom and impairment criteria plus having 2 or more ADHD symptoms reported by the child’s teacher in Stage 1 on the BASC-2-BESS or SDQ (Supplemental Table 1). This row shows the estimated prevalence of ADHD using the study case definition.

c Relative standard error (RSE; standard error/estimate x 100%) is between 30% and 50%; estimate is unstable and may be unreliable, therefore it should be interpreted with caution.

d Estimate suppressed due fewer than 5 respondents meeting criteria for disorder

e The study case definition for panic disorder (included in the any internalizing and any anxiety disorder groups) and obsessive-compulsive disorder (included in the any internalizing disorder group) did not require impairment to be considered to meet DSM-IV criteria. Children that met criteria for these disorders are included in the numerators for the presented prevalence estimates in the DISC symptom criteria only and DISC symptom + impairment criteria columns.

f Module not administered by site

Supplemental Table 4: Weighted prevalence estimates of any disorder, any externalizing disorder, and any internalizing disorder in the past year by site and pooled across sites using a random effects modeling approach, Project to Learn About Youth-Mental Health

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Colorado  (n=236) | Florida  (n=289) | Ohio  (n=152) | South Carolina  (n=270) | Pooled Estimates for Four PLAY-MH Sites |
|  | Weighted  % (95% CI) | Weighted  % (95% CI) | Weighted  % (95% CI) | Weighted  % (95% CI) | Weighted  % (95% CI) |
| Any externalizing or internalizing disordera | 14.8 (10.3, 20.3) | 17.8 (12.8, 23.8) | 33.3 (24.3, 43.3) | 17.6 (12.8, 23.3) | 20.8 (13.7, 27.8) |
| Any externalizing disordera | 10.1 (6.6, 14.7) | 11.1 (7.5, 15.7) | 24.3 (16.4, 33.7) | 10.9 (7.4, 15.2) | 13.9 (8.6, 19.2) |
| ADHD | 5.6 (3.1, 9.4) | 5.1 (2.9, 8.3) | 9.4 (5.3, 15.3) | 6.7 (4.0, 10.4) | 6.6 (4.9, 8.3) |
| Any disruptive behavioral disorderb | 6.9 (4.0, 11.0) | 8.5 (5.2, 12.8) | 17.9 (10.7, 27.3) | 6.2 (3.7, 9.8) | 9.6 (5.5, 13.7) |
| ODD | 6.8 (3.9, 10.8) | 6.9 (4.1, 10.8) | 17.3 (10.2, 26.7) | 5.7 (3.3, 9.2) | 8.9 (4.9, 12.9) |
| Conduct disorder | 1.5c (0.4, 4.0) | 2.4c (0.9, 5.2) | d | 2.1c (0.7, 4.6) | 2.0 (0.9, 3.0) |
| Any internalizing disordera | 8.7 (5.1, 13.7) | 10.0 (6.0, 15.3) | 14.7 (8.7, 22.7) | 10.7 (6.9, 15.6) | 10.8 (8.6, 13.1) |
| Any anxiety disordere | 7.9 (4.4, 12.9) | 8.6 (4.9, 13.9) | 11.2 (5.9, 18.7) | 8.9 (5.4, 13.7) | 9.0 (7.5, 10.4) |
| Social phobia | 5.2c (2.3, 10.0) | 3.4c (1.5, 6.7) | f | 5.4c (2.6, 9.9) | 4.5 (3.1, 5.9) |
| Separation anxiety | 2.9c (1.2, 5.9) | 3.0c (1.0, 7.0) | 6.1c (2.3, 12.9) | 3.3c (1.4, 6.4) | 3.5 (2.3, 4.7) |
| Any depressive disorderg | 1.5c (0.4, 4.1) | 2.4c (0.8, 5.5) | 3.7c (1.0, 8.9) | 2.0c (0.6, 4.8) | 2.2 (1.2, 3.1) |

a Externalizing disorders include attention-deficit/hyperactivity disorder (ADHD), conduct disorder, and oppositional defiant disorder (ODD). Internalizing disorders include generalized anxiety disorder, social phobia, separation anxiety, panic disorder, obsessive-compulsive disorder, agoraphobia, post-traumatic stress disorder (PTSD), major depressive disorder, dysthymic disorder, mania and hypomania.

b Includes children who met study case definition for ODD and/or conduct disorder

c Relative standard error (RSE; standard error/estimate x 100%) is between 30% and 50%; estimate is unstable and may be unreliable, therefore it should be interpreted with caution.

d Suppressed due to fewer than 5 respondents meeting criteria for this disorder

e Includes children who met study case definition for generalized anxiety disorder, social phobia, separation anxiety, panic disorder and/or agoraphobia

f Module not administered by site

g Includes children who met study case definition for major depressive disorder or dysthymic disorder

Supplemental Table 5: Weighted prevalence estimates of any externalizing disorder in the past year by demographic subgroup and site,

Project to Learn About Youth-Mental Health, 2014–2018

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Externalizing Disorder** | | | | | | | |
|  | **Colorado** | | **Florida** | | **Ohio** | | **South Carolina** | |
|  | % (95% CI) | PR (95% CI) | % (95% CI) | PR (95% CI) | % (95% CI) | PR (95% CI) | % (95% CI) | PR (95% CI) |
| **Overall** | 10.1 (6.6, 14.7) |  | 11.1 (7.5, 15.7) |  | 24.3 (16.4, 33.7) |  | 10.9 (7.4, 15.2) |  |
| ***Sex*** |  |  |  |  |  |  |  |  |
| Male | 14.0 (8.5, 21.2) | 2.37 (1.10, 5.10) | 12.2 (6.8, 19.8) | 1.21 (0.60, 2.44) | 32.4 (19.5, 47.6) | 2.08 (1.08, 4.02) | 14.0 (8.9, 20.6) | 1.86 (0.89, 3.91) |
| Female | 5.9a (2.2, 12.2) | Ref. | 10.1 (5.6, 16.4) | Ref. | 15.6 (8.2, 25.8) | Ref. | 7.5a (3.5, 13.8) | Ref. |
| **Age (years)** |  |  |  |  |  |  |  |  |
| 5-11 | 13.4 (8.1, 20.4) | 1.68 (0.83, 3.42) | 18.3 (12.3, 25.6) | 1.96 (1.09, 3.52) | 25.1 (16.3, 35.7) | 1.07 (0.54, 2.13) | 10.7 (6.3, 16.7) | 0.97 (0.51, 1.85) |
| 12+ | 7.9 (3.5, 15.0) | Ref. | 9.3 (5.1, 15.2) | Ref. | 23.5 (11.3, 40.0) | Ref. | 11.1 (6.0, 18.2) | Ref. |
| ***Race/ethnicity*** |  |  |  |  |  |  |  |  |
| Non-Hispanic white | 18.9a (7.0, 37.3) | Ref. | 11.8 (6.0, 20.1) | Ref. | 21.1 (13.9, 30.0) | Ref. | 12.0 (7.2, 18.6) | Ref. |
| Other race/ethnicity | 8.6 (5.1, 13.3) | 0.45 (0.20, 1.04) | 10.7 (6.3, 16.5) | 0.91 (0.44, 1.88) | 44.6a (17.5, 74.4) | 2.11 (0.99, 4.51) | 9.3 (4.9, 15.7) | 0.77 (0.38, 1.55) |
| Non-Hispanic black | 17.4a (6.5, 34.5) | 0.92 (0.34, 2.51) | 11.8 (6.1, 19.9) | 1.00 (0.45, 2.21) |  |  | 11.6a (5.4, 21.1) | 0.97 (0.45, 2.07) |
| Hispanic | 4.9a (1.9, 10.0) | 0.26 (0.10, 0.70) | 8.4a (1.5, 23.7) | 0.71 (0.26, 1.97) |  |  | b |  |
| All other race/ethnicity | 15.6a (5.5, 32.1) | 0.82 (0.30, 2.23) | b |  |  |  | 8.1a (1.1, 25.6) | 0.67 (0.24, 1.83) |
| ***Insurance type*** |  |  |  |  |  |  |  |  |
| Non-Medicaid insurance | 11.9 (4.9, 23.0) | Ref. | 10.4 (5.7, 17.0) | Ref. | 14.2 (7.1, 24.6) | Ref. | 6.5a (2.4, 13.7) | Ref. |
| Medicaid insurance | 10.7 (6.3, 16.7) | 0.90 (0.42, 1.92) | 12.9 (7.1, 20.8) | 1.24 (0.60, 2.55) | 30.9 (18.0, 46.5) | 2.17 (1.04, 4.55) | 15.0 (9.7, 21.7) | 2.30 (1.01, 5.19) |
| No insurance | b |  | b |  | b |  | b |  |
| ***Highest level of parent education*** |  |  |  |  |  |  |  |  |
| High school diploma or less | 6.6 (2.8, 12.7) | 0.48 (0.23, 1.02) | 10.1a (3.8, 20.7) | 0.88 (0.37, 2.10) | 44.5 (25.3, 65.0) | 2.26 (1.19, 4.29) | 18.4 (9.2, 31.3) | 2.11 (1.04, 4.25) |
| At least some college or technical school | 13.7 (8.0, 21.4) | Ref. | 11.5 (7.3, 16.9) | Ref. | 19.7 (11.5, 30.3) | Ref. | 8.8 (5.1, 13.8) | Ref. |
| ***Federal poverty levelc*** |  |  |  |  |  |  |  |  |
| <200% | 10.3 (6.2, 15.7) | 1.02 (0.44, 2.38) | 14.3 (8.4, 22.1) | 2.25 (1.06, 4.76) |  |  | 12.1 (7.6, 17.9) | 1.20 (0.58, 2.46) |
| ≥200% | 10.0a (3.3, 22.2) | Ref. | 6.4 (3.1, 11.3) | Ref. |  |  | 10.1 (4.7, 18.4) | Ref. |
| ***Screening status*** |  |  |  |  |  |  |  |  |
| High risk | 24.9 (16.8, 34.5) | 6.12 (2.53, 14.77) | 18.8 (12.1, 27.2) | 2.74 (1.29, 5.81) | 44.0 (28.3, 60.6) | 2.68 (1.34, 5.36) | 36.7 (29.2, 44.8) | 6.83 (3.27, 14.26) |
| Low risk | 4.1a (1.3, 9.4) | Ref. | 6.9a (3.1, 12.8) | Ref. | 16.4 (7.9, 28.6) | Ref. | 5.4a (2.0, 11.4) | Ref. |

CI: confidence interval; PR: prevalence ratio; Externalizing disorders include attention-deficit/hyperactivity disorder, conduct disorder, and oppositional defiant disorder.

a Relative standard error (RSE; standard error/estimate x 100%) is between 30% and 50%; estimate is unstable and may be unreliable, therefore it should be interpreted with caution.

b Suppressed due fewer than 5 respondents meeting criteria for any externalizing disorder in this subgroup

c Ohio site did not collect information used to calculate household federal poverty level

Supplemental Table 6: Weighted prevalence estimates of any internalizing disorder in the past year by demographic subgroup and site,

Project to Learn About Youth-Mental Health, 2014–2018

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Internalizing Disorder** | | | | | | | |
|  | **Colorado** | | **Florida** | | **Ohio** | | **South Carolina** | |
|  | % (95% CI) | PR (95% CI) | % (95% CI) | PR (95% CI) | % (95% CI) | PR (95% CI) | % (95% CI) | PR (95% CI) |
| **Overall** | 8.7 (5.1, 13.7) |  | 10.0 (6.0, 15.3) |  | 14.7 (8.7, 22.7) |  | 10.7 (6.9, 15.6) |  |
| ***Sex*** |  |  |  |  |  |  |  |  |
| Male | 8.6a (4.1, 15.6) | 0.98 (0.38, 2.53) | 9.3a (4.1, 17.6) | 0.88 (0.36, 2.13) | 17.8 (8.9, 30.3) | 1.56 (0.62, 3.94) | 12.5 (6.8, 20.5) | 1.44 (0.65, 3.16) |
| Female | 8.8a (3.6, 17.1) | Ref. | 10.6a (5.3, 18.6) | Ref. | 11.4a (4.6, 22.5) | Ref. | 8.7 (4.3, 15.4) | Ref. |
| **Age (years)** |  |  |  |  |  |  |  |  |
| 5-11 | 9.3 (4.8, 15.7) | 1.11 (0.45, 2.74) | 9.0 (4.8, 14.9) | 0.87 (0.42, 1.82) | 14.1 (6.9, 24.6) | 0.92 (0.38, 2.27) | 10.7 (5.4, 18.5) | 1.01 (0.46, 2.22) |
| 12+ | 8.3a (3.4, 16.3) | Ref. | 10.3 (5.5, 17.0) | Ref. | 15.3a (6.6, 28.5) | Ref. | 10.6 (5.6, 17.9) | Ref. |
| ***Race/ethnicity*** |  |  |  |  |  |  |  |  |
| Non-Hispanic white | 13.2a (3.7, 30.5) | Ref. | 7.3a (2.5, 16.0) | Ref. | 13.1 (6.9, 21.9) | Ref. | 11.6 (6.7, 18.4) | Ref. |
| Other race/ethnicity | 7.9 (4.1, 13.6) | 0.60 (0.22, 1.65) | 12.1 (6.6, 19.6) | 1.64 (0.62, 4.35) | 24.9a (8.9, 48.3) | 1.89 (0.74, 4.88) | 9.4a (4.0, 18.0) | 0.81 (0.35, 1.88) |
| Non-Hispanic black | b |  | 10.8a (5.1, 19.5) | 1.47 (0.52, 4.17) |  |  | 11.7a (4.9, 22.6) | 1.01 (0.43, 2.39) |
| Hispanic | 7.8a (3.1, 15.8) | 0.59 (0.19, 1.81) | 13.4a (3.7, 31.2) | 1.82 (0.51, 6.51) |  |  | b |  |
| All other race/ethnicity | b |  | b |  |  |  | b |  |
| ***Insurance type*** |  |  |  |  |  |  |  |  |
| Non-Medicaid insurance | b |  | 5.8 a (2.1, 12.4) | Ref. | 5.3a (1.4, 13.2) | Ref. | 9.4a (4.0, 18.3) | Ref. |
| Medicaid insurance | 10.1 (5.3, 17.0) |  | 16.4 (8.7, 27.0) | 2.85 (1.09, 7.47) | 21.7 (11.7, 35.0) | 4.13 (1.45, 11.75) | 11.9 (6.9, 18.8) | 1.26 (0.54, 2.96) |
| No insurance | b |  | b |  | b |  | b |  |
| ***Highest level of parent education*** |  |  |  |  |  |  |  |  |
| High school diploma or less | 8.1a (3.2, 16.3) | 0.87 (0.33, 2.26) | 10.2a (3.9, 20.5) | 1.02 (0.41, 2.58) | b |  | 15.8a (7.3, 28.4) | 1.71 (0.76, 3.85) |
| At least some college or technical school | 9.3a (4.6, 16.5) | Ref. | 9.9 (5.3, 16.6) | Ref. | 14.1 (7.8, 22.9) |  | 9.2 (5.2, 14.9) | Ref. |
| ***Federal poverty levelc*** |  |  |  |  |  |  |  |  |
| <200% | 9.3 (5.1, 15.4) |  | 10.8a (5.1, 19.3) | 1.36 (0.52, 3.53) |  |  | 11.9 (7.0, 18.6) | 1.18 (0.51, 2.73) |
| ≥200% | b |  | 7.9a (3.2, 15.8) | Ref. |  |  | 10.1a (4.3, 19.2) | Ref. |
| ***Screening status*** |  |  |  |  |  |  |  |  |
| High risk | 15.6 (9.0, 24.5) | 2.66 (1.03, 6.87) | 11.9a (5.7, 21.1) | 1.33 (0.56, 3.15) | 18.3a (8.3, 32.7) | 1.37 (0.57, 3.30) | 22.2 (15.6, 30.0) | 2.70 (1.40, 5.20) |
| Low risk | 5.9a (2.1, 12.7) | Ref. | 9.0a (4.3, 16.1) | Ref. | 13.3a (6.4, 23.5) | Ref. | 8.2 (3.8, 15.0) | Ref. |

CI: confidence interval; PR: prevalence ratio. Internalizing disorders include generalized anxiety disorder, social phobia, separation anxiety, panic disorder, obsessive-compulsive disorder, agoraphobia, post-traumatic stress disorder (PTSD), major depressive disorder, dysthymic disorder, mania, and hypomania.

a Relative standard error (RSE; standard error/estimate x 100%) is between 30% and 50%; estimate is unstable and may be unreliable, therefore it should be interpreted with caution.

b Suppressed due fewer than 5 respondents meeting criteria for any internalizing disorder in this subgroup

c Ohio site did not collect information used to calculate household federal poverty level