**Supplementary Table 1.** Attrition Analysis

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Included** | **Excluded** | **P-value** |
|  | **3601** | **180** |  |
| **Demographics** | **n (%)** | **n (%)** |  |
| Gender (male) | 1678 (46.6) | 87 (48.9) | 0.554 |
| Tobacco exposure during pregnancy  | 1178 (32.7) | 55 (30.7) | 0.580 |
| Skin color (white) | 2555 (71.0) | -a | - |
| Childhood abuseb | 1088 (32.7) | 18 (40.9) | 0.246 |
|  |  |  |  |
|  | **Mean (SD)** | **Mean (SD)** |  |
| Birth Weight  | 3.18 (0.52) | 3.14 (0.52) | 0.385 |
| Years of schooling | 9.78 (2.38) | 10.48 (2.11) | **<0.001** |
|  |  |  |
| **Comorbidities** | **n (%)** | **n (%)** |
| Major Depressive Disorder | 103 (2.9) | 5 (2.8) | 0.948 |
| Bipolar Disorder | 60 (1.7) | 1 (0.6) | 0.248 |
| Social Phobia | 181 (5.0) | 7 (3.9) | 0.493 |
| Generalized Anxiety Disorder | 377 (10.5) | 18 (10.1) | 0.860 |
| Post-traumatic stress disorder | 160 (4.4) | 9 (5.0) | 0.724 |
| Antisocial personality disorder | 58 (1.6) | 1 (0.6) | 0.265 |

Data are expressed as N and (%) or mean and (standard deviation).

aNo data available.

bData available for 3376 individuals.

**Supplementary Table 2.** Recall accuracy in individuals with current ADHD syndrome (cases with severe impairment only)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Several symptoms in childhood (n)** | **Recall** | **Sensitivity** **(95% CI)** | **Specificity** **(95% CI)** | **Positive Predictive Value (95% CI)** | **Negative Predictive Value (95% CI)** | **Accuracy** **(95% CI)** |
| Positiven | Negativen |
| Present (n = 57) | 23 | 34 | 40.4 (27.6 - 54.2) | 65.9 (55.0 - 75.7) | 43.4 (33.3 - 54.1) | 63.0 (56.8 - 68.9) | 55.9 (47.4 - 64.1) |
| Absent (n = 88) | 30 | 58 |

**Supplementary Table 3.** Characteristics associated with false positive recall (n=53, cases with severe impairment only)

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Univariable models** |  | **Multivariable model** |
| **Variables** | **PR (CI 95%)** | **P-value** |  | **PR (CI 95%)** | **P-value** |
| **Demographics** |  |  |  |  |  |
| Sex (male) | 1.444 (0.917 - 2.273) | 0.113 |  |  |  |
| Skin color (non-white) | 1.040 (0.600 - 1.801) | 0.889 |  |  |  |
| Prenatal tobacco exposure | 0.762 (0.452 - 1.285) | 0.308 |  |  |  |
| Birth weight | 0.999 (0.553 - 1.804) | 0.997 |  |  |  |
| Child abuse  | 1.339 (0.763 - 2.351) | 0.309 |  |  |  |
| Years of schooling (0-4) | 1 | - |  |  |  |
| 5-8 | 0.392 (0.155 - 0.993) | **0.048** |  |  |  |
| 9-11 | 1.067 (0.574 - 1.982) | 0.838 |  |  |  |
| >=12 | 0.784 (0.393 - 1.566) | 0.491 |  |  |  |
| Tobacco use | 0.770 (0.437 - 1.358) | 0.367 |  |  |  |
| Alcohol use (never) | 1 | - |  |  |  |
| monthly | 1.164 (0.670 - 2.022) | 0.590 |  |  |  |
| weekly | 0.833 (0.349 - 1.990) | 0.681 |  |  |  |
|  |  |  |  |  |  |
| **Comorbidities** |  |  |  |  |  |
| Major depressive disorder  | 1.477 (0.887 - 2.459) | 0.134 |  |  |  |
| Bipolar disorder | 0.730 (0.300 - 1.776) | 0.488 |  |  |  |
| Social phobia | 1.267 (0.793 - 2.023) | 0.322 |  |  |  |
| Generalized anxiety disorder  | 0.707 (0.408 - 1.224) | 0.216 |  |  |  |
| Post-traumatic stress disorder  | 0.770 (0.437 - 1.358) | 0.367 |  |  |  |
| Antisocial personality disorder  | 0.686 (0.228 - 2.060) | 0.501 |  |  |  |
| Inattention symptoms | 0.977 (0.890 - 1.072) | 0.620 |  |  |  |
| Hyperactivity symptoms | 0.947 (0.849 - 1.058) | 0.338 |  |  |  |

**Supplementary Table 4.** Characteristics associated with false negative recall (n=92, cases with severe impairment only)

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Univariable models** |  | **Multivariable model** |
| **Variables** | **PR (CI 95%)** | **P-value** |  | **PR (CI 95%)** | **P-value** |
| **Demographics** |  |  |  |  |  |
| Sex (male) | 1.667 (0.992 - 2.801) | 0.054 |  |  |  |
| Skin color (non-white) | 1.715 (1.025 - 2.869) | **0.040** |  | 1.749 (1.063 – 2.877) | **0.028** |
| Prenatal tobacco exposure | 1.228 (0.721 - 2.090) | 0.449 |  |  |  |
| Birth weight | 0.672 (0.419 - 1.076) | 0.098 |  |  |  |
| Child abuse  | 1.055 (0.610 - 1.826) | 0.847 |  |  |  |
| Years of schooling (0-4) | 1 | - |  |  |  |
| 5-8 | 1.000 (0.351 - 2.851) | 1.000 |  |  |  |
| 9-11 | 0.765 (0.263 - 2.227) | 0.623 |  |  |  |
| >=12 | 0.385 (0.109 - 1.352) | 0.136 |  |  |  |
| Tobacco use  | 1.228 (0.721 - 2.090) | 0.449 |  |  |  |
| Alcohol use (never) | 1 | - |  |  |  |
| monthly | 0.936 (0.508 - 1.724) | 0.832 |  |  |  |
| weekly | 0.975 (0.439 - 2.165) | 0.950 |  |  |  |
|  |  |  |  |  |  |
| **Comorbidities** |  |  |  |  |  |
| Major depressive disorder  | 0.743 (0.310 - 1.781) | 0.505 |  |  |  |
| Bipolar disorder  | 0.892 (0.340 - 2.343) | 0.817 |  |  |  |
| Social phobia  | 0.781 (0.408 - 1.496) | 0.456 |  |  |  |
| Generalized anxiety disorder  | 1.112 (0.648 - 1.906) | 0.701 |  |  |  |
| Post-traumatic stress disorder  | 1.080 (0.594 - 1.964) | 0.801 |  |  |  |
| Antisocial personality disorder  | 1.375 (0.497 - 3.806) | 0.540 |  |  |  |
| Inattention symptoms | 1.061 (0.915 - 1.230) | 0.432 |  |  |  |
| Hyperactivity symptoms | 1.148 (1.028 - 1.281) | **0.014** |  | 1.156 (1.031 – 1.295) | **0.013** |

**Supplementary Table 5.** Recall accuracy in individuals with a current ADHD syndrome and different thresholds for “several symptoms” in the SDQ-H at 11 yrs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **SDQ-H Scores (“several” symptoms)** | **Sensitivity** **(95% CI)** | **Specificity** **(95% CI)** |  | **Positive Predictive Value (95% CI)** | **Negative Predictive Value (95% CI)** | **Accuracy** **(95% CI)** |
| **Youden’s index** |
| 3 or more | 33.6 (29.3-38.2) | 83.3 (72.7-91.1) | 0.169 | 92.6 (88.0-95.5) | 16.8 (15.2-18.6) | 40.5 (36.3-44.9) |
| 4 or more | 34.0 (29.4-38.8) | 78.6 (69.8-85.8) | 0.126 | 85.2 (79.7-89.4) | 24.7 (22.6-27.0) | 43.6 (39.3-48.0) |
| 5 or more | 33.7 (28.7-39.1) | 73.1 (66.1-79.3) | 0.068 | 69.1 (62.8-74.8) | 38.2 (35.5-41.0) | 47.9 (43.5-52.3) |
| 6 or more | 33.5 (27.9-39.3) | 71.6 (65.1-76.9) | 0.051 | 57.4 (51.0-63.6) | 48.0 (45.2-50.9) | 51.0 (46.6-55.4) |
| 7 or more  | 32.8 (26.4-39.8) | 69.7 (64.3-74.7) | 0.025 | 40.7 (34.7-47.1) | 62.1 (59.2-64.9) | 55.4 (51.0-59.7) |
| 8 or more  | 35.3 (27.8-43.4) | 70.4 (65.4-75.1) | 0.057 | 33.3 (27.7-39.5) | 72.2 (69.4-74.8) | 60.0 (55.7-64.3) |
| 9 or more  | 40.5 (30.2-51.4) | 70.6 (66.1-74.9) | 0.111 | 22.2 (17.6-27.7) | 85.1 (82.7-87.3) | 65.4 (61.2-69.5) |
| 10 | 44.8 (31.7-58.5) | 70.4 (66.0-74.6) | 0.152 | 16.1 (12.2-20.8) | 91.0 (88.9-92.8) | 67.6 (63.4-71.6) |