Supplemental Tables and Figures

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| **Supplemental Table 1. Model fit and loadings for exploratory and confirmatory factor analytic models of inattention symptoms** |
|  | **EFA** **(first half of sample)** |  | **CFA** **(second half of sample)** |
| Model Fit | *(N=1858)* |  |  *(N=1861)* |
| *χ2*  | 15.281 |  | 48.107 |
| DF  | 9 |  | 9 |
| *p* | .084 |  | <.001 |
| RMSEA | .019 |  | 0.048 |
| CFI |  |  | 0.999 |
| TLI |  |  | 0.999 |
| SRMR (EFA)WRMR (CFA) | .012-- |  | --1.065 |
|  |  |  |  |
| *Factor Loadings* |
| 1. Trouble paying attention or keeping your mind on your school, work, chores, or other activities | 0.958 |  | 0.958 |
| 2. Problems following instructions and often fail to finish school, work, or other things you meant to get done | 0.971 |  | 0.959 |
| 3. Dislike, avoid, or put off school or homework (or any other activity requiring concentration) | 0.876 |  | 0.881 |
| 4. Lose things you needed for school or projects at home; make careless mistakes in school work or other activities | 0.876 |  | 0.886 |
| 5. Trouble making plans, doing things that had to be done in a certain kind of order, or that had a lot of steps | 0.893 |  | 0.896 |
| 6. People tell you that you did not seem to be listening when they spoke to you or that you were daydreaming | 0.926 |  | 0.902 |

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| **Supplemental Table 2. Number of markers that pass at each step of quality control of imputed data within individuals of European Ancestry.** |
| **Full sample** | **# Markers** | **N** |
| Screened Imputed Data\* | 8,337,954 | 4,296 |
| Genotyping Rate > 99% | 5,420,264 | 4,296 |
| MAF > 1% | 5,365,068 | 4,296 |
| Individual Missingness > 90% | 5,365,068 | 4,294 |
| HWE p < .00001 | 5,360,405 | 4,294 |
| Genetic Relatedness < .05 | 5,360,405 | 3,991 |
| \*Original imputed data was screened to include the set of ~14 million common, biallelic markers from the 1000 Genomes Reference Panel and then screened to remove poorly imputed markers r2 < .30.  |

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| **Supplemental Table 3. Top hits in the exploratory GWAS of Inattention** |
| **Chromosome** | **SNP** | **Physical Position** | **Reference Allele** | **Other Allele** | **Frequency of reference allele** | **SNP effect** | **Standard Error** | ***p* -value** |
| **16** | 16:75216240 | 75216240 | A | T | 0.135924 | -0.11651 | 0.022268 | 1.67E-07 |
| **8** | 8:5306159 | 5306159 | A | T | 0.029578 | -0.21414 | 0.045918 | 3.11E-06 |
| **8** | 8:5308668 | 5308668 | T | G | 0.029578 | -0.21414 | 0.045918 | 3.11E-06 |
| **8** | 8:5309910 | 5309910 | A | C | 0.029578 | -0.21414 | 0.045918 | 3.11E-06 |
| **8** | 8:5303176 | 5303176 | G | C | 0.029309 | -0.21476 | 0.046109 | 3.20E-06 |
| **8** | 8:5301767 | 5301767 | A | G | 0.029578 | -0.21273 | 0.045908 | 3.59E-06 |
| **11** | 11:131836678 | 131836678 | A | G | 0.148427 | -0.09927 | 0.021504 | 3.91E-06 |
| **1** | 1:235327138 | 235327138 | C | T | 0.451331 | -0.07057 | 0.015394 | 4.55E-06 |
| **12** | 12:20883938 | 20883938 | A | G | 0.017343 | -0.26906 | 0.058707 | 4.58E-06 |
| **1** | 1:235325570 | 235325570 | T | G | 0.450793 | -0.07027 | 0.015397 | 5.01E-06 |
| **1** | 1:235326034 | 235326034 | C | T | 0.450255 | -0.07017 | 0.015399 | 5.20E-06 |
| **1** | 1:235327568 | 235327568 | C | G | 0.450793 | -0.06999 | 0.015396 | 5.46E-06 |
| **1** | 1:235356425 | 235356425 | A | C | 0.453213 | -0.06986 | 0.015408 | 5.80E-06 |
| **1** | 1:235359975 | 235359975 | T | A | 0.453751 | -0.06975 | 0.015398 | 5.90E-06 |
| **1** | 1:235356301 | 235356301 | G | A | 0.453348 | -0.06976 | 0.015412 | 5.99E-06 |
| **1** | 1:235359782 | 235359782 | G | A | 0.453885 | -0.06956 | 0.015394 | 6.22E-06 |
| **1** | 1:235362960 | 235362960 | C | T | 0.453885 | -0.06956 | 0.015394 | 6.22E-06 |
| **1** | 1:235365170 | 235365170 | G | A | 0.453885 | -0.06956 | 0.015394 | 6.22E-06 |
| **4** | 4:186642233 | 186642233 | A | C | 0.01452 | 0.288928 | 0.063994 | 6.33E-06 |
| **8** | 8:5300761 | 5300761 | T | A | 0.029981 | -0.20572 | 0.045619 | 6.50E-06 |
| **1** | 1:235365869 | 235365869 | T | A | 0.454289 | -0.06937 | 0.015405 | 6.70E-06 |
| **1** | 1:235368277 | 235368277 | A | T | 0.45523 | -0.06923 | 0.015381 | 6.76E-06 |
| **1** | 1:235355244 | 235355244 | T | A | 0.452272 | -0.0693 | 0.015401 | 6.80E-06 |
| **1** | 1:235328341 | 235328341 | A | G | 0.45281 | -0.06916 | 0.015415 | 7.23E-06 |
| **1** | 1:235334002 | 235334002 | G | A | 0.452407 | -0.06907 | 0.015413 | 7.42E-06 |
| **3** | 3:164334436 | 164334436 | T | C | 0.274671 | 0.077379 | 0.017268 | 7.43E-06 |
| **11** | 11:131831608 | 131831608 | G | A | 0.148696 | -0.09609 | 0.021447 | 7.46E-06 |
| **1** | 1:235465204 | 235465204 | A | G | 0.458053 | -0.06882 | 0.015373 | 7.57E-06 |
| **1** | 1:235463173 | 235463173 | G | T | 0.458053 | -0.0687 | 0.015364 | 7.77E-06 |
| **1** | 1:235328731 | 235328731 | C | T | 0.452944 | -0.06887 | 0.01541 | 7.86E-06 |
| **1** | 1:235332555 | 235332555 | T | G | 0.452944 | -0.06887 | 0.01541 | 7.86E-06 |
| **1** | 1:235334093 | 235334093 | T | C | 0.452944 | -0.06887 | 0.01541 | 7.86E-06 |
| **1** | 1:235337733 | 235337733 | T | C | 0.452944 | -0.06887 | 0.01541 | 7.86E-06 |
| **1** | 1:235350207 | 235350207 | C | T | 0.452944 | -0.06887 | 0.01541 | 7.86E-06 |
| **1** | 1:235350554 | 235350554 | G | A | 0.452944 | -0.06887 | 0.01541 | 7.86E-06 |
| **1** | 1:235351447 | 235351447 | A | G | 0.452944 | -0.06887 | 0.01541 | 7.86E-06 |
| **1** | 1:235354555 | 235354555 | G | C | 0.452944 | -0.06887 | 0.01541 | 7.86E-06 |
| **1** | 1:235377979 | 235377979 | G | T | 0.458188 | -0.06866 | 0.015376 | 7.98E-06 |
| **1** | 1:235383188 | 235383188 | G | A | 0.458188 | -0.06866 | 0.015376 | 7.98E-06 |
| **1** | 1:235385934 | 235385934 | G | A | 0.458188 | -0.06866 | 0.015376 | 7.98E-06 |
| **1** | 1:235392083 | 235392083 | C | A | 0.458188 | -0.06866 | 0.015376 | 7.98E-06 |
| **1** | 1:235392354 | 235392354 | A | T | 0.458188 | -0.06866 | 0.015376 | 7.98E-06 |
| **1** | 1:235392546 | 235392546 | C | T | 0.458188 | -0.06866 | 0.015376 | 7.98E-06 |
| **1** | 1:235452744 | 235452744 | A | G | 0.45886 | -0.06862 | 0.015368 | 8.01E-06 |
| **1** | 1:235426133 | 235426133 | A | T | 0.457784 | -0.06866 | 0.015381 | 8.06E-06 |
| **8** | 8:5297822 | 5297822 | A | G | 0.029847 | -0.20388 | 0.045714 | 8.20E-06 |
| **8** | 8:5299128 | 5299128 | A | G | 0.029847 | -0.20388 | 0.045714 | 8.20E-06 |
| **8** | 8:5299286 | 5299286 | C | G | 0.029847 | -0.20388 | 0.045714 | 8.20E-06 |
| **1** | 1:235328710 | 235328710 | G | T | 0.453079 | -0.06868 | 0.015406 | 8.28E-06 |
| **1** | 1:235337418 | 235337418 | G | A | 0.453079 | -0.06868 | 0.015406 | 8.28E-06 |
| **1** | 1:235337761 | 235337761 | C | T | 0.453079 | -0.06868 | 0.015406 | 8.28E-06 |
| **1** | 1:235349803 | 235349803 | G | A | 0.453079 | -0.06868 | 0.015406 | 8.28E-06 |
| **1** | 1:235351436 | 235351436 | G | T | 0.453079 | -0.06868 | 0.015406 | 8.28E-06 |
| **1** | 1:235354572 | 235354572 | T | A | 0.453079 | -0.06868 | 0.015406 | 8.28E-06 |
| **1** | 1:235378344 | 235378344 | A | G | 0.458322 | -0.06847 | 0.015372 | 8.40E-06 |
| **1** | 1:235391446 | 235391446 | C | T | 0.458322 | -0.06847 | 0.015372 | 8.40E-06 |
| **1** | 1:235454237 | 235454237 | T | C | 0.458994 | -0.06843 | 0.015364 | 8.43E-06 |
| **1** | 1:235343226 | 235343226 | C | A | 0.452541 | -0.06857 | 0.015408 | 8.58E-06 |
| **1** | 1:235352365 | 235352365 | A | G | 0.452541 | -0.06857 | 0.015408 | 8.58E-06 |
| **1** | 1:235429692 | 235429692 | A | G | 0.45765 | -0.06843 | 0.015386 | 8.70E-06 |
| **1** | 1:235429907 | 235429907 | C | A | 0.45765 | -0.06843 | 0.015386 | 8.70E-06 |
| **1** | 1:235431792 | 235431792 | C | A | 0.45765 | -0.06843 | 0.015386 | 8.70E-06 |
| **1** | 1:235432249 | 235432249 | G | A | 0.45765 | -0.06843 | 0.015386 | 8.70E-06 |
| **1** | 1:235460719 | 235460719 | G | C | 0.458053 | -0.06829 | 0.015365 | 8.81E-06 |
| **1** | 1:235454955 | 235454955 | A | G | 0.458725 | -0.06827 | 0.015365 | 8.87E-06 |
| **1** | 1:235390396 | 235390396 | C | T | 0.458322 | -0.06833 | 0.01538 | 8.87E-06 |
| **1** | 1:235451172 | 235451172 | T | G | 0.458725 | -0.06826 | 0.015365 | 8.90E-06 |
| **5** | 5:169201989 | 169201989 | T | C | 0.076634 | 0.127852 | 0.028887 | 9.60E-06 |
| **1** | 1:235449757 | 235449757 | A | T | 0.458591 | -0.068 | 0.01537 | 9.69E-06 |
| **1** | 1:235394541 | 235394541 | C | A | 0.457919 | -0.06801 | 0.015377 | 9.73E-06 |
| **1** | 1:235396697 | 235396697 | G | A | 0.457919 | -0.06801 | 0.015377 | 9.73E-06 |
| **1** | 1:235397267 | 235397267 | G | A | 0.457919 | -0.06801 | 0.015377 | 9.73E-06 |
| **1** | 1:235397477 | 235397477 | A | G | 0.457919 | -0.06801 | 0.015377 | 9.73E-06 |
| **1** | 1:235400826 | 235400826 | C | T | 0.457919 | -0.06801 | 0.015377 | 9.73E-06 |
| **1** | 1:235401292 | 235401292 | C | G | 0.457919 | -0.06801 | 0.015377 | 9.73E-06 |
| **1** | 1:235405654 | 235405654 | T | C | 0.457919 | -0.06801 | 0.015377 | 9.73E-06 |
| **1** | 1:235425875 | 235425875 | T | C | 0.457919 | -0.06801 | 0.015377 | 9.73E-06 |
| **1** | 1:235426121 | 235426121 | T | A | 0.457919 | -0.06801 | 0.015377 | 9.73E-06 |
| **1** | 1:235426917 | 235426917 | T | C | 0.457919 | -0.06801 | 0.015377 | 9.73E-06 |
| **1** | 1:235438205 | 235438205 | T | C | 0.457919 | -0.06801 | 0.015377 | 9.73E-06 |
| **1** | 1:235439755 | 235439755 | C | T | 0.457919 | -0.06801 | 0.015377 | 9.73E-06 |
| **1** | 1:235417801 | 235417801 | A | T | 0.457515 | -0.06795 | 0.015366 | 9.77E-06 |

**Supplemental Figure S1**. SNP-based heritability (h2SNP) of inattention, by chromosome using only SNPs that survive quality control of imputed data within individuals of European Ancestry (n=3563).