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| **Table S2.** Tests for effect modification by age and gender for incidence rate ratios indicating change in incidence between 2003 and 2018 |
|  | **Incidence rate ratios by age group** | **P-value (effect modification by age group)** |
|  | 1-5 | 6-9 | 10-12 | 13-16 | 17-19 |
| **Female** |  |  |  |  |  |  |
| Anxiety disorders | - | 3.2 | 4.6 | 4.7 | 2.8 | < 0.001 |
| Depression | - | 1.9 | 3.6 | 2.2 | 1.3 | < 0.001 |
| Eating disorders | - | - | 1.3 | 1.8 | 1.1 | 0.02 |
| ADHD | 0.7 | 2.5 | 3.0 | 4.5 | 14.5 | < 0.001 |
| Autism | 3.5 | 7.7 | 9.3 | 13.0 | 4.6 | < 0.001 |
| Self-harm | - | - | 4.1 | 2.0 | 1.7 | < 0.001 |
| **Male** |  |  |  |  |  |  |
| Anxiety disorders | - | 3.2 | 3.5 | 3.4 | 2.9 | 0.27 |
| Depression | - | 1.7 | 3.0 | 3.4 | 2.4 | < 0.001 |
| Eating disorders | - | - | 0.9 | 1.7 | 0.8 | 0.03 |
| ADHD | 0.6 | 1.9 | 1.7 | 2.6 | 3.5 | < 0.001 |
| Autism | 3.2 | 3.8 | 4.2 | 5.1 | 4.0 | 0.04 |
| Self-harm | - | - | 2.5 | 2.9 | 1.7 | < 0.001 |

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| **Table S3**. Tests for effect modification by gender for incidence rate ratios measure indicating change in incidence between 2003 and 2018. |
|  | **Incidence rate ratio by sex** |  |
|  | Female | Male | **P-value (effect modification by sex)** |
| **Anxiety disorders** |  |  |  |
| 6-9 | 3.2 | 3.2 | 0.90 |
| 10-12 | 4.6 | 3.5 | 0.02 |
| 13-16 | 4.7 | 3.4 | < 0.001 |
| 17-19 | 2.8 | 2.9 | 0.28 |
| **Depression** |  |  |  |
| 6-9 | 1.9 | 1.7 | 0.68 |
| 10-12 | 3.6 | 3.0 | 0.29 |
| 13-16 | 2.2 | 3.4 | < 0.001 |
| 17-19 | 1.3 | 2.4 | < 0.001 |
| **Eating disorders** |  |  |  |
| 10-12 | 1.3 | 0.9 | 0.19 |
| 13-16 | 1.8 | 1.7 | 0.93 |
| 17-19 | 1.1 | 0.8 | 0.27 |
| **ADHD** |  |  |  |
| 1-5 | 0.7 | 0.6 | 0.90 |
| 6-9 | 2.5 | 1.9 | 0.06 |
| 10-12 | 3.0 | 1.7 | 0.007 |
| 13-16 | 4.5 | 2.6 | 0.04 |
| 17-19 | 14.5 | 3.5 | 0.03  |
| **Autism** |  |  |  |
| 1-5 | 3.5 | 3.2 | 0.48 |
| 6-9 | 7.7 | 3.8 | 0.002 |
| 10-12 | 9.3 | 4.2 | 0.002 |
| 13-16 | 13 | 5.1 | 0.002 |
| 17-19 | 4.6 | 4.0 | 0.78 |
| **Self-harm** |  |  |  |
| 10-12 | 4.1 | 2.5 | 0.02 |
| 13-16 | 2.0 | 2.9 | < 0.001 |
| 17-19 | 1.7 | 1.7 | 0.52  |