

**Supplementary Table S1.** Demographics effect on Parent-Reported and Adolescent-Reported Callous–Unemotional Traits Among all groups.

| Variable             | Adolescent-reported |               |                | Parent-reported |                |                |
|----------------------|---------------------|---------------|----------------|-----------------|----------------|----------------|
|                      | Callousness         | Uncaring      | Unemotionality | Callousness     | Uncaring       | Unemotionality |
|                      | B (SE)              | B (SE)        | B (SE)         | B (SE)          | B (SE)         | B (SE)         |
| Age                  | -0.08 (0.11)        | -0.15 (0.10)  | 0.02 (0.06)    | -0.17 (0.12)    | -0.15 (0.11)   | 0.21 (0.06)    |
| Sex (girls vs. boys) | -1.64 (0.55)*       | -1.04 (0.53)* | -0.24 (0.31)   | -2.28 (0.64)*** | -1.66 (0.55)** | -0.43 (0.33)   |

SE: standard deviation; \*:  $p < 0.05$ ; \*\*:  $p < 0.01$ ; \*\*\*:  $p < 0.001$ .

**Supplementary Table S2.** Adolescents’ Sex and Age Distributions in TD, ADHD, and ASD Groups.

| Variable    | TD            |              | ADHD          |              | ASD           |              |
|-------------|---------------|--------------|---------------|--------------|---------------|--------------|
|             | <i>n</i> =126 |              | <i>n</i> =126 |              | <i>n</i> =126 |              |
|             | Mean (SD)     | <i>n</i> (%) | Mean (SD)     | <i>n</i> (%) | Mean (SD)     | <i>n</i> (%) |
| Age (years) | 13.88 (2.08)  |              | 13.12 (1.71)  |              | 13.66 (1.95)  |              |
| Sex         |               |              |               |              |               |              |
| Girls       |               | 17 (13.5)    |               | 17 (13.5)    |               | 17 (13.5)    |
| Boys        |               | 109 (86.5)   |               | 109 (86.5)   |               | 109 (86.5)   |

ADHD: attention-deficit/hyperactivity disorder; ASD: autism spectrum disorder; SD: standard deviation; TD: typical development.

**Supplementary Table S3.** Comparisons of Parent-Reported and Adolescent-Reported Callous–Unemotional Traits Among TD, ADHD, and ASD Groups<sup>a</sup>.

|                     | TD     |      | ADHD   |      | ASD    |      | F-value  | Post-hoc comparison <sup>b</sup> |
|---------------------|--------|------|--------|------|--------|------|----------|----------------------------------|
|                     | n =126 |      | n =126 |      | n =126 |      |          |                                  |
| Variable            | Mean   | SD   | Mean   | SD   | Mean   | SD   |          |                                  |
| Adolescent-reported |        |      |        |      |        |      |          |                                  |
| Callousness         | 6.70   | 4.03 | 9.42   | 5.02 | 9.89   | 5.46 | 15.75*** | ASD = ADHD > TD                  |
| Uncaring            | 9.25   | 4.59 | 11.42  | 4.81 | 10.60  | 4.98 | 6.55**   | ASD = ADHD > TD                  |
| Unemotionality      | 6.90   | 2.48 | 7.35   | 2.84 | 7.56   | 2.94 | 1.91     | -                                |
| Parent-reported     |        |      |        |      |        |      |          |                                  |
| Callousness         | 8.10   | 4.69 | 12.11  | 5.58 | 12.94  | 5.65 | 29.81*** | ASD = ADHD > TD                  |
| Uncaring            | 10.51  | 4.40 | 13.60  | 4.49 | 13.92  | 5.07 | 20.61*** | ASD = ADHD > TD                  |
| Unemotionality      | 6.34   | 2.63 | 5.78   | 3.14 | 7.19   | 3.02 | 7.38***  | ASD > ADHD = TD                  |

<sup>a</sup>: ANOVA; <sup>b</sup>: Shaffer's correction; ADHD: attention-deficit/hyperactivity disorder; ASD: autism spectrum disorder; SD: standard deviation; TD: typical development; \*\*:  $p < 0.01$ ; \*\*\*:  $p < 0.001$ .

**Supplementary Table S4.** Comparisons of Difference Scores Between Parent-Reported and Adolescent-Reported Callous–Unemotional Traits Among TD, ADHD and ASD Groups <sup>a</sup>.

|                | TD            |      | ADHD          |      | ASD           |      | <i>F</i> -value | Post-hoc comparison <sup>b</sup> |
|----------------|---------------|------|---------------|------|---------------|------|-----------------|----------------------------------|
|                | <i>n</i> =126 |      | <i>n</i> =126 |      | <i>n</i> =126 |      |                 |                                  |
| Variable       | Mean          | SD   | Mean          | SD   | Mean          | SD   |                 |                                  |
| Callousness    | 1.40          | 5.46 | 2.69          | 6.01 | 3.05          | 6.51 | 2.63            | -                                |
| Uncaring       | 1.25          | 5.18 | 2.18          | 4.91 | 3.33          | 5.18 | 5.24**          | ASD > TD                         |
| Unemotionality | -0.56         | 3.23 | -1.57         | 3.72 | -0.37         | 3.91 | 3.98*           | ADHD > ASD                       |

<sup>a</sup>: ANOVA; <sup>b</sup>: Shaffer's correction; ADHD: attention-deficit/hyperactivity disorder; ASD: autism spectrum disorder; SD: standard deviation; TD: typical development; \*:  $p < 0.05$ ; \*\*:  $p < 0.01$ .