**Appendix: Validation of the three- and four-cluster solutions using CHIT AND BIS scores compared by means of ANOVA**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Three-cluster solution** | | | | | **Four cluster solution** | | | | | |
|  | *Low C*  *(1)* | *Low I (2)* | *High C & I (3)* | **ANOVA** | **Post-hoc tests (p<.001)** | *Low I (1)* | *High C & I (2)* | *Healthy (3)* | *Low C (4)* | **ANOVA** | **Post-hoc tests (p<.001)** |
| CHIT(Z-SCORES) | -1.19 (0.04) | 0.14 (0.03) | 0.58 (0.04) | F (2,771)=622.50, p<.001 | 2>1<3>2 | 0.43 (0.04) | 0.73 (0.050) | -0.75 (0.05) | -0.75  (0.04) | F (3,770)=367.38, p<.001 | 1=2>3=4 |
| BIS (Z-SCORES) | -0.20 (0.05) | -0.61 (0.04) | 0.84 (0.04) | F (2,771)=404.72, p<.001 | 1<2<3>1 | -0.20 (0.03) | 1.05 (0.05) | -1.03 (0.05) | 0.22 (0.03) | F (3,770)=596.38, p<.001 | 1<2>3<4 |

Footnote: CHIT=Cambridge-Chicago Compulsivity Trait Scale; BIS=Barratt Impulsiveness Scale