**Supplementary materials**

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| Table S1. Volume of subcortical structure in separate hemisphere | | | | | | | | |
|  | |  | Patient (n=127) | | Control (n=83) | | *F* | *P* |
| **Volume of subcortical structure** | | | mean | s.d. | mean | s.d. |  |  |
|  | Left thalamus proper | | 7639.68 | 1045.23 | 7971.23 | 967.94 | 5.55 | 0.02 |
|  | Right thalamus proper | | 7195.05 | 813.04 | 7476.92 | 893.02 | 7.14 | 0.008 |
|  | Left caudate | | 3416.44 | 471.68 | 3434.27 | 472.59 | 0.01 | 0.94 |
|  | Right caudate | | 3485.03 | 482.19 | 3478.60 | 468.16 | 0.21 | 0.64 |
|  | Left putamen | | 5023.96 | 634.70 | 5032.56 | 653.61 | 0.04 | 0.85 |
|  | Right putamen | | 5078.98 | 678.84 | 5127.11 | 659.77 | 0.05 | 0.83 |
|  | Left pallidum | | 2130.82 | 230.92 | 2082.09 | 232.80 | 2.79 | 0.10 |
|  | Right pallidum | | 2098.19 | 249.42 | 2040.66 | 234.22 | 2.82 | 0.09 |
|  | Left hippocampus | | 3780.35 | 388.06 | 3989.26 | 371.80 | 19.87 | **1.36×10-5** |
|  | Right hippocampus | | 3976.65 | 460.67 | 4183.95 | 357.76 | 15.07 | **1.39×10-4** |
|  | Left amygdala | | 1591.83 | 203.85 | 1677.67 | 191.95 | 12.12 | **6.11×10-4** |
|  | Right amygdala | | 1692.57 | 207.79 | 1751.98 | 217.17 | 4.97 | 0.03 |
|  | Left accumbens area | | 408.63 | 99.21 | 433.09 | 91.06 | 2.93 | 0.09 |
|  | Right accumbens area | | 472.19 | 86.94 | 510.13 | 89.05 | 10.12 | **0.002** |
|  | Left lateral ventricle | | 10921.37 | 5790.92 | 7549.88 | 4521.85 | 20.08 | **1.23×10-5** |
|  | Right lateral ventricle | | 9169.79 | 5000.53 | 6599.78 | 3114.62 | 17.92 | **3.48×10-5** |
|  | Total gray matter volume | | 629997.34 | 61785.16 | 659975.03 | 62401.32 | 43.91 | **2.98×10-10** |
|  | Intracranial volume | | 1545146.22 | 161168.84 | 1546336.87 | 149085.80 | 0.04 | 0.84 |
| Note: Unit of volume is mm3; considering age, sex and intracranial volume as covariates | | | | | | | | |



Figure S1. Correlation between medication dose and subcortical volumes, total cortical gray matter volume (GMV) and volume of lateral ventricle. Note that antipsychotic medication dosage was calculated as chlorpromazine equivalent (mg/day).



**Figure S2.** Right Amygdala mediated the effects of childhood trauma on stress coping, controlling for age, sex, intracranial volume and medication dose. Path AB represents the mediation effect. Both C’ and C were significant, suggesting partial mediation. CTQ: Childhood Trauma Questionnaire; EN, Emotional neglect; PSS, Perceived Stress Scale.