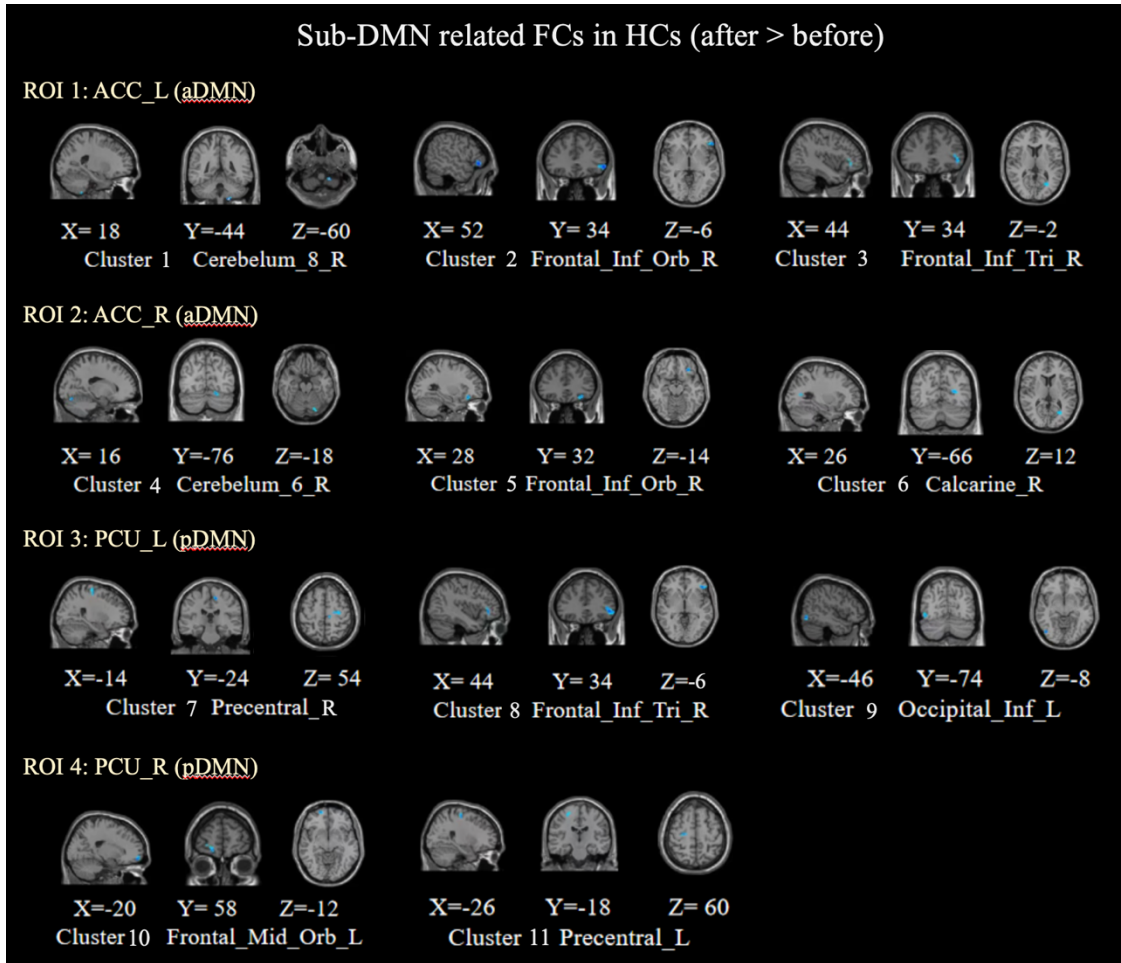


Supplementary File. Functional connectivity alterations between post-sDSDs and post-HCs

**Supplementary Table 1. The altered rsFCs related to sub-DMN within HCs group
(after > before)**

| Brain Regions (AAL) | MNI Coordinates | | | T value | Cluster size |
|---------------------|-----------------|-----|-----|---------|--------------|
| | X | Y | Z | | |
| ROI 1: ACC_L (aDMN) | | | | | |
| Cerebelum_8_R | 18 | -44 | -60 | 4.6511 | 674 |
| Frontal_Inf_Orb_R | 52 | 34 | -6 | 6.3613 | 301 |
| Frontal_Inf_Tri_R | 44 | 34 | -2 | 5.6972 | 638 |
| ROI 2: ACC_R (aDMN) | | | | | |
| Cerebelum_6_R | 16 | -76 | -18 | 5.5331 | 581 |
| Frontal_Inf_Orb_R | 28 | 32 | -14 | 5.1944 | 319 |
| Calcarine_R | 26 | -66 | 12 | 5.7192 | 216 |
| ROI 3: PCU_L (pDMN) | | | | | |
| Precentral_R | -14 | -24 | 54 | 5.4122 | 511 |
| Frontal_Inf_Tri_L | 44 | 34 | -6 | 5.7936 | 655 |
| Occipital_Inf_L | -46 | -74 | -8 | 5.3391 | 613 |
| ROI 4: PCU_R (pDMN) | | | | | |
| Frontal_Mid_Orb_L | -20 | 58 | -12 | 4.7716 | 365 |
| Precentral_L | -26 | -18 | 60 | 4.7933 | 199 |

Note: Cerebelum_8_R, right Cerebellum_8; Frontal_Inf_Orb_R, right orbital part of the inferior frontal gyrus; Frontal_Inf_Tri_R, right triangular part of the inferior frontal gyrus; Cerebelum_6_R, right Cerebellum_6; Frontal_Mid_Orb_L, left orbital part of the middle frontal gyrus; Calcarine_R, right Calcarine; Precentral_R, right precentral; Occipital_Inf_L, left inferior occipital gyrus; Precentral_L, left precentral; HCs, healthy controls.



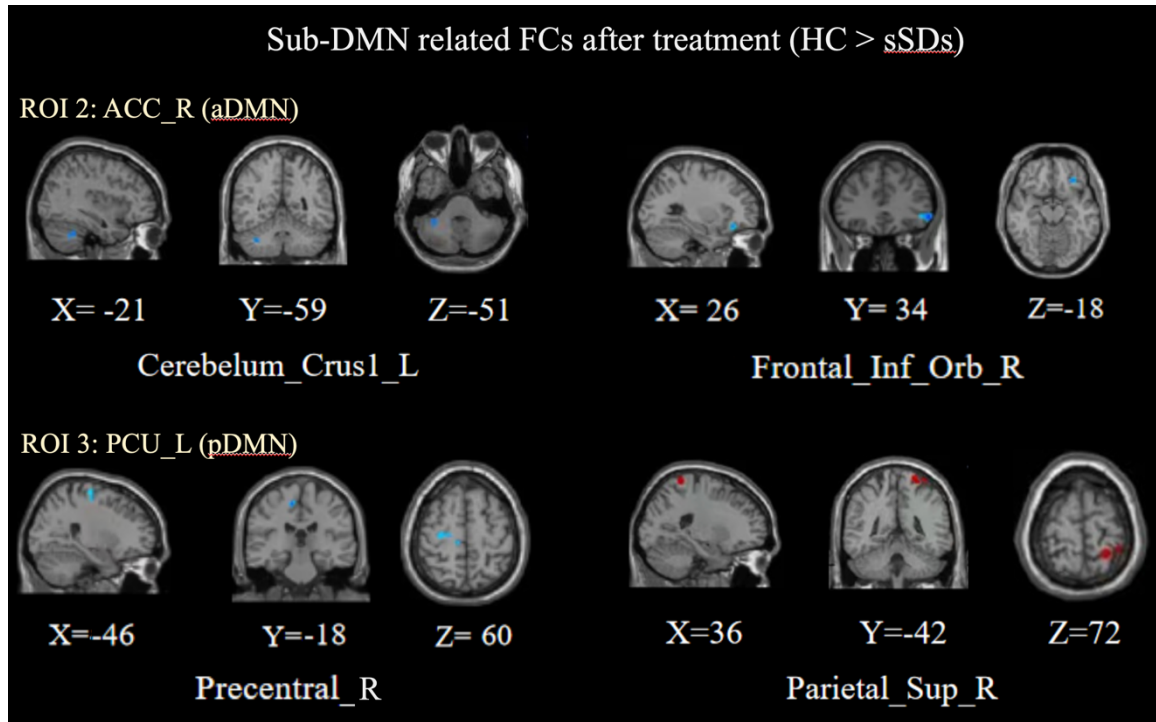
Supplementary Figure 1. Brain regions showing altered FCs related to sub-DMN in HCs from post- to pre-scan.

Note: Cerebellum_8_R, right Cerebellum_8; Frontal_Inf_Orb_R, right orbital part of the inferior frontal gyrus; Frontal_Inf_Tri_R, right triangular part of the inferior frontal gyrus; Cerebellum_6_R, right Cerebellum_6; Frontal_Mid_Orb_L, left orbital part of the middle frontal gyrus; Calcarine_R, right Calcarine; Precentral_R, right precentral; Occipital_Inf_L, left inferior occipital gyrus; Precentral_L, left precentral; HCs, healthy controls.

Supplementary Table 2. The altered rsFCs related to sub-DMN between two groups after treatment (HC > sSDs)

| Brain Regions (AAL) | MNI Coordinates | | | T value | Cluster size |
|-----------------------------|-----------------|-----|-----|---------|--------------|
| | X | Y | Z | | |
| ROI 2: The Right ACC (aDMN) | | | | | |
| Cerebellum_Crus1_L | -21 | -63 | -56 | -5.3380 | 206 |
| Frontal_Inf_Orb_R | -18 | 27 | 0 | 6.3104 | 262 |
| ROI 3: The Left PCU (pDMN) | | | | | |
| Precentral_R | 60 | -48 | -18 | 5.0375 | 646 |
| Parietal_Sup_R | 48 | 43 | 79 | 4.0846 | 253 |

Note: Cerebelum_Crus1_L, left cerebellum crus1; Precentral_R, right precentral; Parietal_Sup_R, right superior parietal gyrus; HC, healthy control; sSDs, subclinical depression with sleep disorders



Supplementary Figure 2: Brain regions showing changes in the patients with adolescent depression

Note: Cerebelum_Crus1_L, left cerebellum crus1; Frontal_Inf_Orb_R, right orbital part of the inferior frontal gyrus; Precentral_R, right precentral; Parietal_Sup_R, right superior parietal gyrus; HC, healthy control.