



Supplementary Figure 4. Tract-Based Spatial Statistics analysis showing trend-level differences (corrected $p < 0.1$) between the first-onset depression and the healthy control groups. A: Voxels demonstrating trend-level (corrected $p < 0.1$) decreased FA values in the first-onset depression group compared to those in the healthy control group are shown in red-yellow. B: Voxels demonstrating trend-level (corrected $p < 0.1$) increased RD values in the first-onset depression group compared to those in the healthy control group are shown in blue-lightblue. We conducted analysis of covariance, in which age, sex, and estimated total intracranial volume were included as covariates. Results are shown overlaid on the Montreal Neurologic Institute 1-mm template ($Z = -22$ to $Z = 44$) and the mean FA skeleton (green). A threshold-free cluster enhancement method was applied using a permutation-based inference tool for nonparametric statistics. The number of permutations was 10,000, and the left-right orientation is according to the radiological convention. FA: fractional anisotropy, RD: radial diffusivity.