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| Supplementary table 5. Adjusted effects of various factors on regional brain volumes of DMN areas at baseline among patients without diabetes mellitus. (n=129) |
| DMN ROI | Model 1a | Model 2b |
| R^2 | Age | HbA1c | CIRS-G-TS | R^2 | Age | 　 | HbA1c | 　 | CIRS-G-SI | 　 |
| β(SE) | p† | β(SE) | p† | β(SE) | p† | β(SE) | p† | β(SE) | p† | β(SE) | p† |
| Hippocampus (L) | 0.12 | **-22.69(6.18)** | **0.004\*** | 　 | 　 |  | 　 | 0.12 | **-22.69(6.18)** | **0.003\*** | 　 | 　 | 　 | 　 |
| Hippocampus (R) | 0.14 | **-23.35(5.90)** | **0.002\*** | 　 | 　 | 　 | 　 | 0.14 | **-23.35(5.90)** | **0.002\*** | 　 | 　 | 　 | 　 |
| Medial orbitofrontal (L) | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 |
| Medial orbitofrontal (R) | 0.05 | -16.19(8.85) | 0.100 | 　 | 　 | 　 | 　 | 0.05 | -16.19(8.85) | 0.091 | 　 | 　 | 　 | 　 |
| Rostral anterior cingulate (L) | 0.11 | **-25.32(7.40)** | **0.006\*** | 　 | 　 | 　 | 　 | 0.11 | **-25.32(7.40)** | **0.005\*** | 　 | 　 | 　 | 　 |
| Rostral anterior cingulate (R) | 0.03 | -13.38(6.95) | 0.089 | 　 | 　 | 　 | 　 | 0.03 | -13.38(6.95) | 0.085 | 　 | 　 | 　 | 　 |
| Caudal anterior cingulate (L) | 0.04 | 　 | 　 | 　 | 　 | 　 | 　 | 0.04 | 　 | 　 | 　 | 　 | 　 | 　 |
| Caudal anterior cingulate (R) | 0.02 | -12.76(7.38) | 0.117 | 　 | 　 | 　 | 　 | 0.05 | -15.06(7.42) | 0.085 | 　 | 　 | 119.59(66.09) | 0.091 |
| Posterior cingulate (L) | 0.08 | -8.67(5.99) | 0.150 | **176.69(69.84)** | **0.042\*** | -15.27(7.20) | 0.067 | 0.04 | 　 | 　 | 155.17(70.45) | 0.077 | 　 | 　 |
| Posterior cingulate (R) | 0.08 | **-20.52(6.05)** | **0.006\*** | 　 | 　 | 　 | 　 | 0.11 | **-22.42(6.09)** | **0.003\*** | 　 | 　 | 98.78(54.23) | 0.091 |
| Isthmus (L) | 0.05 | 　 | 　 | 　 | 　 | 　 | 　 | 0.05 | 　 | 　 | 　 | 　 | 　 | 　 |
| Isthmus (R) | 0.15 | **-18.57(4.72)** | **0.002\*** | 　 | 　 | 　 | 　 | 0.15 | **-18.57(4.72)** | **0.002\*** | 　 | 　 | 　 | 　 |
| Precuneus (L) | 0.08 | **-38.65(12.89)** | **0.016\*** | 　 | 　 | 　 | 　 | 0.08 | **-38.65(12.89)** | **0.016\*** | 　 | 　 | 　 | 　 |
| Precuneus (R) | 0.14 | **-31.93(12.88)** | **0.043\*** | 　 | 　 | -25.96(15.53) | 0.121 | 0.15 | -26.19(12.98) | 0.085 | 　 | 　 | -248.01(114.63) | 0.077 |
| Supramarginal (L) | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 |
| Supramarginal (R) | 0.10 | **-47.03(18.35)** | **0.042\*** | 　 | 　 | **-59.91(21.90)** | **0.031\*** | 0.09 | -36.65(18.65) | 0.085 | 　 | 　 | **-439.59(166.11)** | **0.039\*** |
| Abbreviations: DMN, default mode network; ROI, region of interest; L, left hemisphere; R, right hemisphere; β, unstandardized regression coefficient; SE, standard error.a Stepwise regression model: Dependent variable: regional volume of each area in DMN. Covariates include age, gender, BMI, years of education, CIRS-G-TS, and HbA1c. b Stepwise regression model: Dependent variable: regional volume of each area in DMN. Covariates include age, gender, BMI, years of education, CIRS-G-SI, and HbA1c. † Adjusted p-value via Benjamini-Hochberg procedure. \* p<.05 |
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