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| Supplementary table 7. Adjusted effects of different glycemic state markers on regional brain volumes of DMN areas from stepwise regression model. (n=170) |
| DMN ROI | Model 1a | Model 2b |
| HbA1c | Fasting glucose | HOMA-IR | Insulin | HbA1c | Fasting glucose | HOMA-IR | Insulin |
| β(SE) | p† | β(SE) | p† | β(SE) | p† | β(SE) | p† | β(SE) | p† | β(SE) | p† | β(SE) | p† | β(SE) | p† |
| Hippocampus (L) | -60.42(26.74) | 0.055 | **-2.42(0.90)** | **0.029\*** | -24.48(11.12) | 0.062 | -6.17(4.27) | 0.155 | -60.42(26.74) | 0.065 | **-2.42(0.90)** | **0.032\*** | -24.48(11.12) | 0.068 | -6.17(4.27) | 0.155 |
| Hippocampus (R) | -57.31(26.42) | 0.065 | **-2.81(0.88)** | **0.015\*** | **-24.18(9.80)** | **0.042\*** | 　 | 　 | -57.31(26.42) | 0.070 | **-2.81(0.88)** | **0.012\*** | **-24.18(9.80)** | **0.039\*** | -5.67(3.51) | 0.116 |
| Medial orbitofrontal (L) | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 |
| Medial orbitofrontal (R) | 　 | 　 | 　 | 　 | 26.83(16.18) | 0.119 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 |
| Rostral anterior cingulate (L) | 　 | 　 | 　 | 　 | 18.71(13.00) | 0.155 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 |
| Rostral anterior cingulate (R) | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 |
| Caudal anterior cingulate (L) | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 |
| Caudal anterior cingulate (R) | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 |
| Posterior cingulate (L) | 47.2(29.65) | 0.132 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 |
| Posterior cingulate (R) | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 |
| Isthmus (L) | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 |
| Isthmus (R) | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 |
| Precuneus (L) | 　 | 　 | -3.48(1.96) | 0.108 | 　 | 　 | 　 | 　 | 　 | 　 | -3.48(1.96) | 0.113 | 　 | 　 | 　 | 　 |
| Precuneus (R) | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 |
| Supramarginal (L) | 　 | 　 | 　 | 　 | -74.19(40.26) | 0.098 | -29.79(14.21) | 0.076 | 　 | 　 | 　 | 　 | -74.19(40.26) | 0.103 | -29.79(14.21) | 0.072 |
| Supramarginal (R) | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 |
| 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 corresponding glycemic state marker. 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 corresponding glycemic state marker. † Adjusted p-value via Benjamini-Hochberg procedure. \* p<.05 |
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