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| **Supplementary Table 3. Partial correlations between inflammation and grey matter volume in BDII-D** |
| **inflammatorycytokines** | **Cerebelum\_inf\_R** | **Mid\_Temporal\_Pole\_L** | **Mid\_Temporal\_Pole\_R** | **Mid\_Temporal\_L** | **Mid\_Frontal\_R** | **Mid\_Frontal\_Orb\_R** | **Inf\_Frontal\_Orb\_R** | **Inf\_Frontal\_Tri\_R** | **Sup\_Frontal\_Medial\_R** | **Mid\_Frontal\_L** | **Inf\_Frontal\_Orb\_L**  | **Inf\_Frontal\_Oper\_L** | **Insula\_R** | **Caudate\_R** | **Rectus\_L** |
| **IL-1β** | Correlation r | -0.094 | -0.091 | -0.035 | -0.028 | -0.004 | 0.028 | 0.011 | -0.089 | 0.006 | -0.167 | -0.159 | 0.001 | 0.032 | -0.045 | -0.105 |
| Significance p-value(uncorr) | 0.261 | 0.277 | 0.676 | 0.742 | 0.959 | 0.734 | 0.891 | 0.289 | 0.947 | **0.045** | 0.056 | 0.986 | 0.706 | 0.589 | 0.21 |
| **TNF-α** | Correlation r | -0.017 | -0.019 | -0.004 | -0.007 | 0.015 | 0.062 | 0.028 | 0.042 | 0.097 | -0.062 | 0.056 | -0.006 | -0.02 | 0.047 | 0.058 |
| Significance p-value(uncorr) | 0.835 | 0.822 | 0.96 | 0.935 | 0.861 | 0.457 | 0.735 | 0.615 | 0.245 | 0.457 | 0.503 | 0.943 | 0.838 | 0.575 | 0.486 |
| **IL-6** | Correlation r | -0.025 | -0.034 | -0.024 | -0.057 | -0.002 | -0.124 | 0.001 | -0.099 | 0.024 | -0.266 | -0.146 | 0.082 | -0 | -0.022 | 0.002 |
| Significance p-value(uncorr) | 0.766 | 0.685 | 0.771 | 0.498 | 0.977 | 0.137 | 0.995 | 0.234 | 0.772 | **0.001** | 0.081 | 0.329 | 0.959 | 0.797 | 0.98 |
| **CRP** | Correlation r | -0.183 | -0.141 | -0.095 | -0.174 | -0.009 | -0.008 | -0.158 | -0.164 | -0.119 | -0.164 | -0.169 | -0.08 | -0.18 | -0.062 | -0.162 |
| Significance p-value(uncorr) | **0.028** | 0.09 | 0.257 | **0.037** | 0.914 | 0.921 | 0.058 | **0.049** | 0.153 | **0.048** | **0.042** | 0.338 | **0.031** | 0.457 | 0.052 |
| **WBC** | Correlation r | -0.277 | -0.179 | -0.124 | -0.079 | 0.005 | 0.052 | -0.164 | -0.062 | -0.006 | -0.173 | -0.129 | -0.146 | -0.08 | -0.195 | -0.155 |
| Significance p-value(uncorr) | **0.001** | **0.031** | 0.139 | 0.346 | 0.954 | 0.537 | **0.049** | 0.457 | 0.945 | **0.037** | 0.122 | 0.08 | 0.336 | **0.019** | 0.062 |
| **NTLratio** | Correlation r | -0.082 | -0.05 | -0.034 | -0.075 | 0.089 | -0.179 | -0.002 | 0.055 | 0.083 | -0.121 | -0.027 | -0.034 | -0.08 | -0.117 | -0.03 |
| Significance p-value(uncorr) | 0.328 | 0.552 | 0.681 | 0.37 | 0.287 | **0.031** | 0.985 | 0.514 | 0.32 | 0.148 | 0.745 | 0.682 | 0.34 | 0.161 | 0.719 |
| **MTLratio** | Correlation r | -0.022 | -0.021 | 0.002 | 0.015 | 0.087 | -0.124 | -0.007 | -0.008 | 0.063 | -0.07 | 0.063 | -0.067 | -0.08 | 0.011 | 0.03 |
| Significance p-value(uncorr) | 0.789 | 0.798 | 0.977 | 0.859 | 0.298 | 0.139 | 0.934 | 0.924 | 0.451 | 0.4 | 0.454 | 0.422 | 0.357 | 0.894 | 0.723 |
| **PTLratio** | Correlation r | 0.063 | 0.045 | -0.071 | -0.061 | 0.012 | -0.05 | 0.081 | 0.008 | 0.035 | -0.089 | -0.051 | 0.059 | -0.03 | 0.067 | 0.09 |
| Significance p-value(uncorr) | 0.454 | 0.587 | 0.396 | 0.468 | 0.89 | 0.551 | 0.335 | 0.926 | 0.679 | 0.287 | 0.544 | 0.483 | 0.689 | 0.421 | 0.281 |
| **Abbreviations: BDII-D-bipolar II depression; IL-interleukin; CRP-C-reactive protein; WBC-white blood cells; TNF-Tumor necrosis factor; NTL-Neutrophil-to-Lymphocyte; MTL-Monocyte-to-Lymphocyte; PTL-Platelet-to-Lymphocyte.**The correlations between inflammation and grey matter volume were controlled TIV & education & gender & age & medication |
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