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| **Supplementary Table 3. Quantitative comparisons for unadjusted/adjusted associations of tau PET SUVRs in brain ROIs and CSF t-tau/p-tau with rs242557 variant in subgroups categorized by diagnosis.** |
|  |  | **MCI (n = 49)** |  | **CN (n = 41)** |
|  | **unadjusted** |  | **adjusted** |  | **unadjusted** |  | **adjusted** |
|  | **β** | **p** |  | **β** | **p** |  | **β** | **p** |  | **β** | **p** |
| CSF t-tau |  | 6.124  | 0.562  |  | 3.170  | 0.755  |  | -1.452  | 0.875  |  | -2.083  | 0.835  |
| CSF p-tau |  | -5.794  | 0.363  |  | -6.386  | 0.338  |  | -1.031  | 0.879  |  | -2.831  | 0.705  |
| Left hippocampus |  | 0.164  |  **0.002\*** |  | 0.131  | 0.004  |  | 0.094  | 0.036  |  | 0.102  | 0.036  |
| Right hippocampus |  | 0.163  |  **0.001\*** |  | 0.133  | 0.002  |  | 0.079  | 0.049  |  | 0.093  | 0.035  |
| Left entorhinal |  | 0.280  | 0.015  |  | 0.229  | 0.042  |  | 0.159  | 0.023  |  | 0.170  | 0.028  |
| Right entorhinal |  | 0.135  | 0.316  |  | 0.094  | 0.472  |  | 0.102  | 0.199  |  | 0.090  | 0.285  |
| Left parahippocampus |  | 0.155  | 0.062  |  | 0.103  | 0.190  |  | 0.140  | 0.014  |  | 0.140  | 0.029  |
| Right parahippocampus |  | 0.135  | 0.147  |  | 0.080  | 0.385  |  | 0.123  | 0.012  |  | 0.125  | 0.024  |
| Left pallidum |  | 0.046  | 0.604  |  | 0.024  | 0.800  |  | 0.000  | 0.997  |  | 0.022  | 0.759  |
| Right pallidum |  | 0.023  | 0.761  |  | 0.005  | 0.956  |  | -0.037  | 0.536  |  | -0.023  | 0.730  |
| Left caudate |  | 0.041  | 0.456  |  | 0.017  | 0.758  |  | -0.014  | 0.778  |  | -0.024  | 0.664  |
| Right caudate |  | 0.118  | 0.017  |  | 0.091  | 0.062  |  | 0.000  | 1.000  |  | 0.007  | 0.895  |
| Left putamen |  | 0.062  | 0.188  |  | 0.030  | 0.499  |  | 0.005  | 0.923  |  | 0.010  | 0.848  |
| Right putamen |  | 0.052  | 0.307  |  | 0.014  | 0.769  |  | 0.009  | 0.863  |  | 0.021  | 0.703  |
| Left thalamus |  | 0.026  | 0.190  |  | 0.027  | 0.161  |  | 0.018  | 0.442  |  | 0.033  | 0.172  |
| Right thalamus |  | 0.004  | 0.892  |  | 0.003  | 0.902  |  | -0.006  | 0.851  |  | 0.007  | 0.825  |
| Brainstem |  | 0.025  | 0.349  |  | 0.018  | 0.484  |  | 0.013  | 0.650  |  | 0.033  | 0.255  |
| Left superior temporal cortex |  | 0.085  | 0.032  |  | 0.063  | 0.107  |  | 0.110  | 0.059  |  | 0.096  | 0.140  |
| Right superior temporal cortex |  | 0.087  | 0.070  |  | 0.061  | 0.196  |  | 0.031  | 0.394  |  | 0.028  | 0.497  |
| Left inferior temporal cortex |  | 0.055  | 0.577  |  | -0.004  | 0.970  |  | 0.192  | 0.035  |  | 0.180  | 0.076  |
| Right inferior temporal cortex |  | 0.069  | 0.510  |  | 0.005  | 0.963  |  | 0.077  | 0.158  |  | 0.065  | 0.283  |
| Left lateral occipital cortex |  | 0.102  | 0.443  |  | 0.076  | 0.566  |  | 0.086  | 0.068  |  | 0.091  | 0.082  |
| Right lateral occipital cortex |  | 0.199  | 0.099  |  | 0.174  | 0.128  |  | 0.082  | 0.031  |  | 0.088  | 0.039  |
| Left inferior parietal cortex |  | 0.030  | 0.705  |  | -0.010  | 0.900  |  | 0.100  | 0.064  |  | 0.080  | 0.166  |
| Right inferior parietal cortex |  | 0.045  | 0.611  |  | 0.001  | 0.995  |  | 0.074  | 0.108  |  | 0.064  | 0.208  |
| Left superior frontal cortex |  | 0.050  | 0.210  |  | 0.022  | 0.560  |  | 0.038  | 0.199  |  | 0.056  | 0.069  |
| Right superior frontal cortex | 　 | 0.035  | 0.562  | 　 | -0.002  | 0.977  | 　 | 0.041  | 0.190  | 　 | 0.056  | 0.102  |

Unadjusted and adjusted data (β and p values) are listed in the table.

MCI, mild cognitive impairment; CN, control.

\*Bonferroni corrected p value < 0.05.