**Supplemental Table 3. Comparison of global and regional SUVr between the surgical study population and age- and gender-matched normal, early MCI and late MCI patients from ADNI**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Characteristic | Surgical  (n = 40) | Normal  (n = 40) | *P* Value | FDR | Mean Difference [95% CI] | Early MCI  (n = 40) | Late MCI  (n=40) |
| Global cortical SUVr | 0.99 [0.92-1.07] | 1.01 [0.96-1.06] | 0.310 | 0.723 | 0.01 [-0.05-0.07] | 1.21 [0.98-1.34] | 1.33 [1.03-1.55] |
| Anterior cingulate SUVr | 1.00 [0.94-1.12] | 1.05 [0.99-1.14] | 0.135 | 0.791 | -0.01 [-0.08-0.07] | 1.24 [1.03-1.47] | 1.38 [1.10-1.59] |
| Posterior cingulate SUVr | 0.98 [0.85-1.06] | 1.02 [0.96-1.12] | 0.051 | 0.471 | -0.03 [-0.10-0.04] | 1.21 [1.03-1.37] | 1.36 [1.03-1.61] |
| Frontal medial orbital SUVr | 0.90 [0.86-0.94] | 0.91 [0.85-0.96] | 0.791 | 0.791 | 0.01 [-0.04-0.06] | 1.04 [0.89-1.25] | 1.18 [0.95-1.37] |
| Parietal SUVr | 0.90 [0.82-1.06] | 0.94 [0.89-1.02] | 0.704 | 0.791 | 0.01 [-0.06-0.08] | 1.14 [0.95-1.28] | 1.22 [0.96-1.41] |
| Temporal SUVr | 1.07 [1.01-1.15] | 1.08 [0.99-1.13] | 0.560 | 0.791 | 0.04 [-0.02-0.11] | 1.27 [1.03-1.37] | 1.31 [1.03-1.58] |
| Precuneus SUVr | 1.09 [0.99-1.18] | 1.07 [1.03-1.16] | 0.762 | 0.359 | 0.03 [-0.05-0.11] | 1.30 [1.05-1.47] | 1.54 [1.10-1.73] |

SUVr, standard uptake value relative to cerebellum; FDR, false discovery rate; CI, confidence interval; MCI, mild cognitive impairment. SUVr are presented as median [interquartile range]; P-value, FDR, and mean difference represent comparison between the surgical cohort and normal cohort from ADNI. P-values determined by Wilcoxon rank sum test. All comparisons of SUVr between surgical cohort and the early and late MCI cohorts were statistically significant (p<0.005).