

Supplementary Material

Lateralized CBF analyses

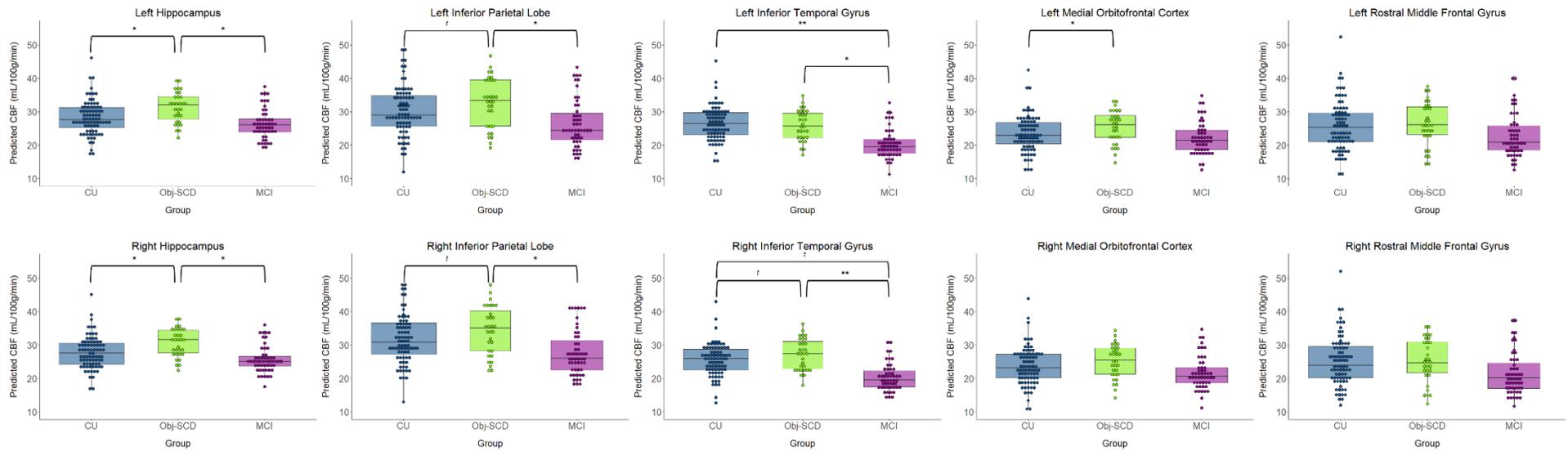
The 10 ROIs (left and right hippocampus, IPL, ITG, mOFC, and rMFG) were entered into a MANCOVA simultaneously that adjusted for age, sex, APOE ϵ 4 status, pulse pressure, FDG PET, and precentral gyrus CBF. Univariate tests are shown in Supplemental Table 1 and least significant difference pairwise are shown in Supplemental Figure 1.

Supplemental Table 1. Lateralized ROI univariate tests

| ROI | F | p | η_p^2 |
|-------------------|------|-------------|------------|
| Left Hippocampus | 3.93 | .022 | .049 |
| Right Hippocampus | 3.40 | .036 | .042 |
| Left IPL | 2.25 | .109 | .029 |
| Right IPL | 2.54 | .082 | .032 |
| Left ITG | 4.64 | .011 | .057 |
| Right ITG | 5.31 | .006 | .065 |
| Left mOFC | 2.06 | .131 | .026 |
| Right mOFC | 1.24 | .292 | .016 |
| Left rMFG | 1.11 | .333 | .014 |
| Right rMFG | 0.32 | .727 | .004 |

IPL=inferior parietal lobe, ITG=inferior temporal gyrus, mOFC=medial orbitofrontal cortex, rMFG=rostral middle frontal gyrus.

Supplemental Figure 1. CBF by cognitive group across lateralized a priori regions of interest

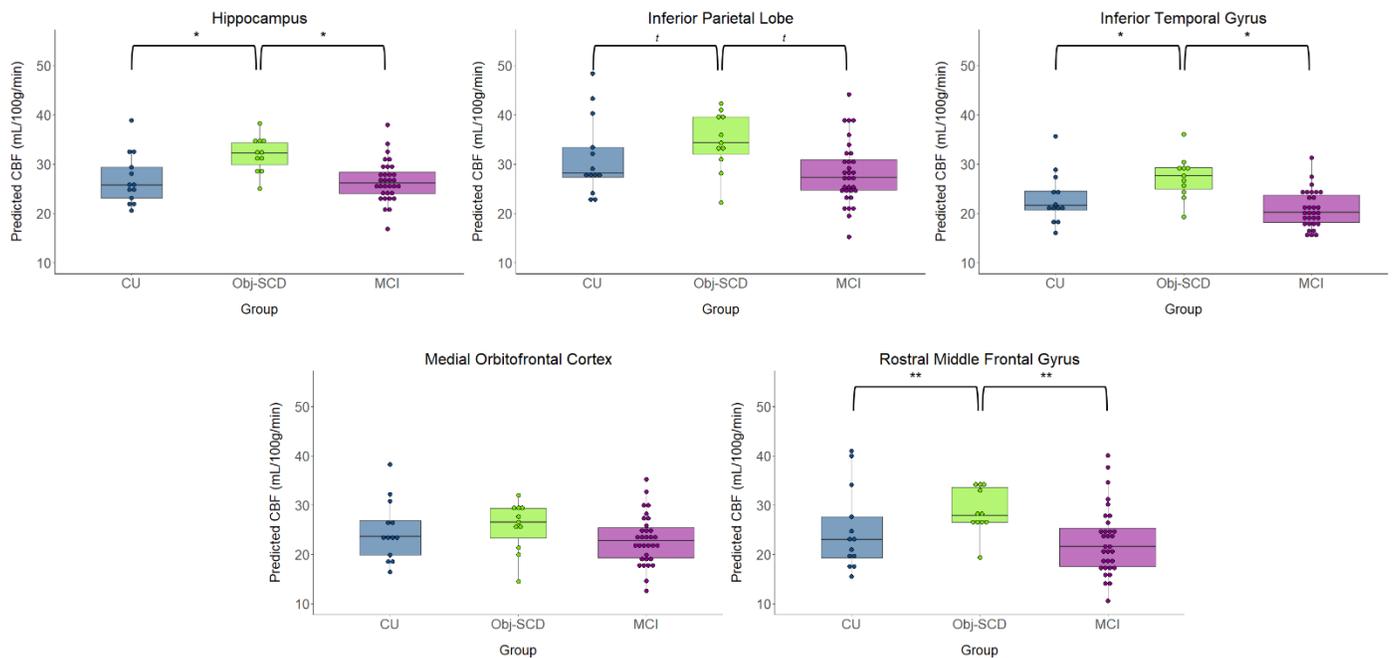


$t < .1$, * $p < .05$, ** $p < .01$. Model predicted CBF was adjusted for age, sex, APOE $\epsilon 4$ status, pulse pressure, FDG PET, and precentral gyrus CBF. CBF=Cerebral Blood Flow; CU=Cognitively unimpaired; Obj-SCD=Objectively-defined subtle cognitive decline; MCI=Mild cognitive impairment.

Exploratory analyses.

Pairwise comparisons of regional CBF in p-tau/A β positive participants by group are shown in Supplemental Figure 2. There were no significant pairwise differences in regional CBF by group in participants who were p-tau/A β negative.

Supplemental Figure 2. Pairwise comparisons of regional CBF in p-tau/A β positive participants by group.



$t < .1$, * $p < .05$, ** $p < .01$. Model predicted CBF was adjusted for age, sex, APOE $\epsilon 4$ status, pulse pressure, FDG PET, and precentral gyrus CBF. CBF=Cerebral Blood Flow; CU=Cognitively unimpaired; Obj-SCD=Objectively-defined subtle cognitive decline; MCI=Mild cognitive impairment.