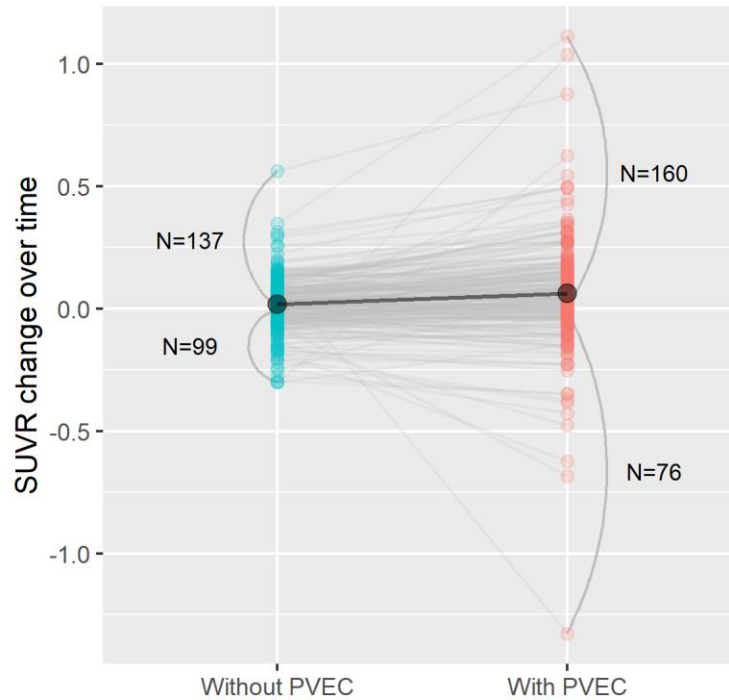


Supplemental Table 1: Influence of partial volume effect correction (PVEC) on standardized uptake value ratio changes over time separated for AD and MCI patients.

Region	AD				MCI			
	Without PVEC	With PVEC	P	Cohen's d	Without PVEC	With PVEC	P	Cohen's d
Left frontal cortex	-0.023 ± 0.20	0.024 ± 0.28	0.09	0.13	0.027 ± 0.14	0.070 ± 0.25	0.0001	0.17
Right frontal cortex	-0.019 ± 0.20	0.058 ± 0.24	0.03	0.33	0.025 ± 0.12	0.072 ± 0.23	1.1×10 <sup>-5</sup>	0.20
Left temporal cortex	0.027 ± 0.15	0.194 ± 0.41	0.05	0.42	0.014 ± 0.11	0.048 ± 0.23	0.004	0.15
Right temporal cortex	0.039 ± 0.17	0.213 ± 0.42	0.03	0.36	0.015 ± 0.11	0.049 ± 0.26	0.007	0.13
Left parietal cortex	-0.054 ± 0.26	0.058 ± 0.26	0.11	0.43	0.022 ± 0.14	0.071 ± 0.30	0.002	0.17
Right parietal cortex	-0.035 ± 0.21	0.098 ± 0.30	0.12	0.51	0.025 ± 0.13	0.072 ± 0.32	0.006	0.15
Left hippocampus	-0.129 ± 0.28	0.058 ± 0.16	0.06	0.85	0.002 ± 0.28	0.009 ± 0.36	0.61	0.02
Right hippocampus	-0.122 ± 0.43	-0.070 ± 0.54	0.12	0.05	0.017 ± 0.30	0.053 ± 0.50	0.045	0.06
Left Brodmann area 9	0.005 ± 0.21	0.028 ± 0.49	0.76	0.03	0.035 ± 0.16	0.090 ± 0.33	0.0002	0.15
Right Brodmann area 9	0.029 ± 0.22	0.081 ± 0.44	0.40	0.07	0.031 ± 0.15	0.084 ± 0.29	2.2×10 <sup>-5</sup>	0.16
Anterior cingulate	0.036 ± 0.17	0.199 ± 0.47	0.08	0.33	0.016 ± 0.13	0.052 ± 0.26	0.007	0.15
Occipital	0.010 ± 0.14	0.165 ± 0.28	0.04	0.67	0.009 ± 0.10	0.038 ± 0.26	0.09	0.13
Composite	-0.003 ± 0.16	0.121 ± 0.25	0.04	0.57	0.018 ± 0.11	0.057 ± 0.22	0.001	0.19



Supplemental Figure 1: Effect of PVEC on SUVR changes over time. On average, the SUVR changes over time in the composite region increased after PVEC ( $P = 1.9 \times 10^{-4}$ ). The amount of participants presenting SUVR increase and decrease over time is annotated for PVE-corrected and uncorrected data beside the curved lines.