**Supplementary Table 1.**

Adjusted mixed effects models examining the association of ten distinct neuropathologies with primacy and recency score trajectories.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Variable** | **Primacy** | | | **Recency** | | |
|  | **B (SE)** | **p-value** | **B (SE)** | | **p-value** |
| Neurofibrillary tangle density | -.034 (.018) | .070 | -.003 (.018) | | .862 |
| Neuritic plaques | -.006 (.018) | .718 | .006 (.017) | | .730 |
| Global beta-amyloid | .010 (.010) | .309 | .012 (.009) | | .214 |
| Atherosclerosis | -.042 (.020) | .037 | -.022 (.018) | | .231 |
| Arteriosclerosis | .002 (.018) | .902 | -.004 (.017) | | .798 |
| Cerebral amyloid angiopathy | .024 (.018) | .176 | -.007 (.016) | | .682 |
| Gross chronic infarcts | -.025 (.019) | .207 | -.018 (.018) | | .339 |
| Chronic microinfarcts | -.024 (.019) | .220 | -.011 (.018) | | .530 |
| Neocortical Lewy bodies | -.035 (.029) | .231 | -.009 (.029) | | .759 |
| Early stage TDP-43 | .019 (.020) | .355 | -.007 (.019) | | .705 |

*Note.* Results reflect interaction terms from 20 separate linear mixed effects models. All models adjusted for age, sex, education, and apolipoprotein E4 status. The recency model also included an age\*sex interaction term.

TDP-43 = transactive response DNA binding protein 43