

**Supplementary Table 3.** Neuropsychological test results of the study participants according to cognitive status and neuroimaging biomarkers (N=640)

| Neuropsychological test           | CN (N=199)   | ADCI (N=159) | VCI (N=78)   | NOS (N=204)  | p <sup>†</sup> | p<0.05 <sup>‡</sup> |
|-----------------------------------|--------------|--------------|--------------|--------------|----------------|---------------------|
| <b>Attention function</b>         |              |              |              |              |                |                     |
| Digit span test-backward          | -0.13 (1.01) | -0.99 (1.34) | -0.69 (0.98) | -0.49 (1.07) | <0.001         | a, b                |
| <b>Language function</b>          |              |              |              |              |                |                     |
| Boston naming test                | -0.04 (1.07) | -1.32 (1.67) | -1.09 (1.66) | -0.83 (1.72) | <0.001         | a, b                |
| <b>Visuospatial function</b>      |              |              |              |              |                |                     |
| RCFT-copy                         | -0.30 (1.13) | -2.33 (2.85) | -0.75 (5.56) | -1.02 (1.79) | <0.001         | a, c                |
| <b>Memory function</b>            |              |              |              |              |                |                     |
| SVLT-delayed recall               | -0.35 (1.09) | -1.98 (0.93) | -1.13 (1.12) | -1.04 (1.16) | <0.001         | a, b, c             |
| RCFT-delayed recall               | -0.18 (0.98) | -1.62 (0.88) | -0.95 (0.90) | -0.61 (1.08) | <0.001         | a, b, c             |
| <b>Frontal/executive function</b> |              |              |              |              |                |                     |
| Stroop test-color reading         | -0.22 (1.00) | -1.80 (1.63) | -1.48 (1.49) | -1.03 (1.51) | <0.001         | a, b                |
| COWAT-phonemic task               | -0.44 (0.89) | -1.19 (1.10) | -1.18 (0.84) | -0.68 (0.98) | <0.001         | a, b                |

<sup>†</sup>analysis of variance; <sup>‡</sup>tukey post hoc analysis. a, NC vs. ADCI; b, NC vs. VCI; c, ADCI vs. VCI. CN, cognitively normal; ADCI, AD-related cognitive impairment; VCI, vascular cognitive impairment; NOS, not otherwise specified due to mixed pathology; RCFT, Rey complex figure test; SVLT, Seoul verbal learning test; COWAT, controlled oral word association test-phonemic task