**Additional file 1:** Ophthalmological variables analysis as possible confounders.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Median** | **Ratio Aβ** | | | **pTau** | | | **tTau** | | |
| *Positive* | *Negative* | *p* | *Positive* | *Negative* | *p* | *Positive* | *Negative* | *p* |
| **Intraocular pressure** | 14.5 | 13.5 | 0.122 | 14.25 | 13.5 | 0.088 | 14.25 | 13.5 | 0.463 |
| **Axial lenght** | 23.16 | 23.07 | 0.110 | 22.98 | 23.12 | 0.902 | 23.12 | 23.07 | 0.264 |
| **Spherical equivalent** | 0.44 | 0.38 | 0.824 | 0.69 | 0.38 | 0.795 | 0.56 | 0.38 | 0.679 |
| **Pachimetry** | 533.0 | 538.0 | 0.877 | 531.5 | 538.0 | 0.478 | 531.5 | 536 | 0.995 |

Potential confounders were evaluated by comparing ophthalmological variables (like IOP, pachymetry, AL and refractive error) in individuals with positive versus negative AD biomarkers. These variables did not show significant associations with CSF AD biomarkers.

Abbreviations: Aβ, amyloid-β, pTau, phosphorylated tau, tTau), total tau.