

Supplementary Material

Clinical Utility of Cerebrospinal Fluid A β ₄₂ and Tau Measures in Diagnosing Mild Cognitive Impairment in Early Onset Dementia

Supplementary Figure 1. CSF diagnostic logarithm based on PCA analysis of CSF biomarkers.

Algorithm Scheme

Obtain patient measurements for:

Total Tau and AB in pg per mL

Calculate X and Y values for each patient:

$$X = (\text{Total Tau} - 577.9) * 0.837 + (\text{AB} - 685.1) * 0.548$$

$$Y = (\text{Total Tau} - 577.9) * -0.548 + (\text{AB} - 685.1) * 0.837$$

Algorithm Pseudocode:

If: $Y > 0.45 * x + 200$	Score = 1
else if: $Y > 0.45 * x + 90$	Score = 2
else if: $Y > 0.45 * x + 10$	Score = 3

Supplementary Figure 2. A β_{1-42} , total-tau, and phospho-tau results from diagnostic CSF analysis.

