

Is Plasma p-tau217 Linked to Memory Task Performance in Low-Education Older Adults?

#Wednesday-0831

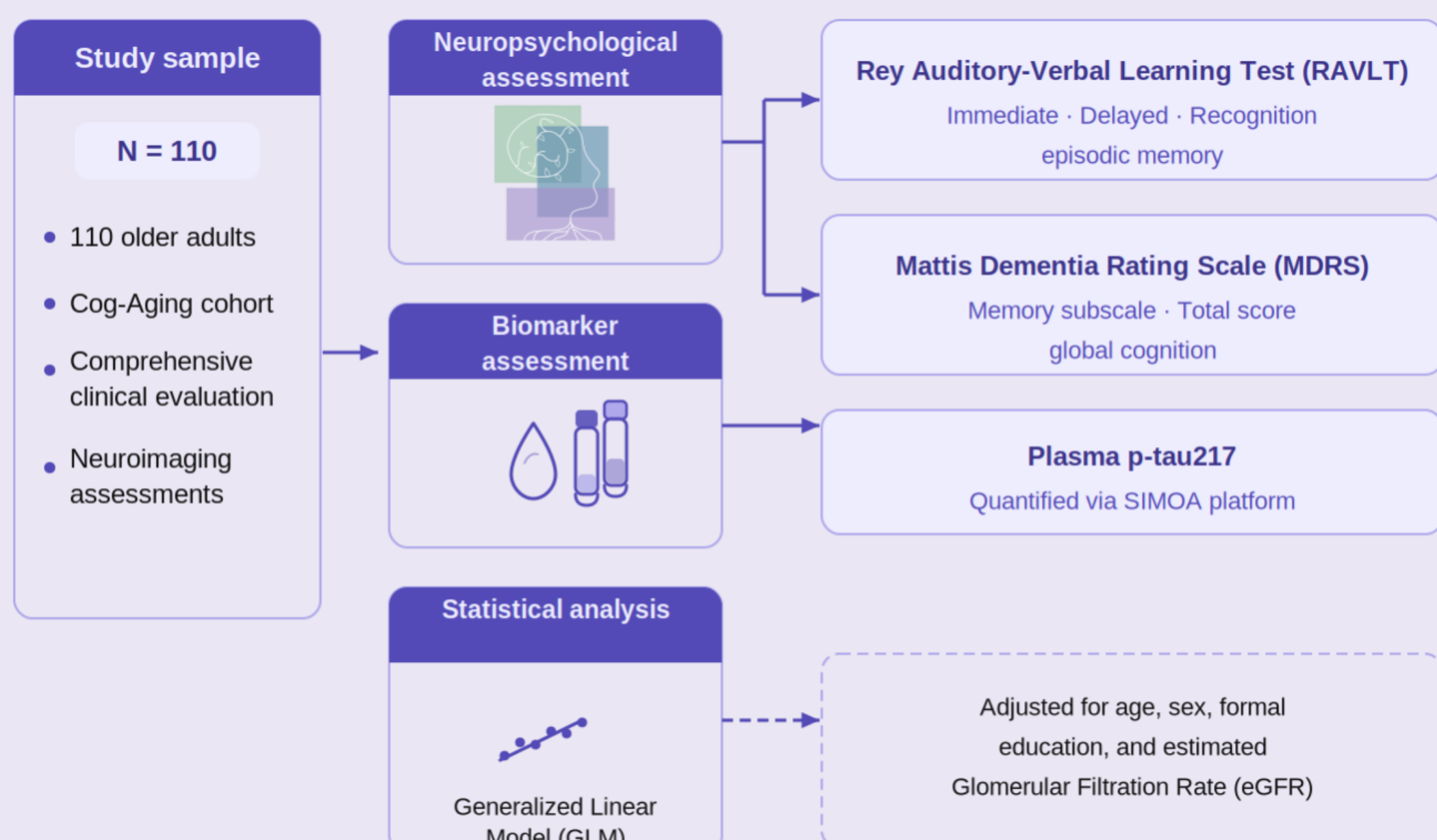
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BACKGROUND

- Blood-Based Biomarkers (BBBs) enhance diagnostic accuracy [1], but studies investigating their association with cognition in Brazilian cohorts remain scarce [2,3].
- Aim: To determine whether Plasma P-tau 217 predicts performance on memory-related neuropsychological tasks in a cross-sectional cohort of Brazilian older adults.

METHODS



Contact Information

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Attendance at this conference was supported by a WYLD and ISTAART Conference Fellowship, and by the Molecular Medicine Program, Faculty of Medicine (UFMG).

Plasma p-tau217 is associated with Episodic Memory Performance

RESULTS

Characteristic	Total Sample (N = 110)
Age (years), mean ± SD	75.81 ± 6.59
Female, %	62.73
Formal education (years), median (IQR)	4.5 (7.00)
APOE ε4 carrier, %	34.54

Abbreviations: SD: Standard Deviation; IQR: Interquartile Range; APOE-ε4: Apolipoprotein E.

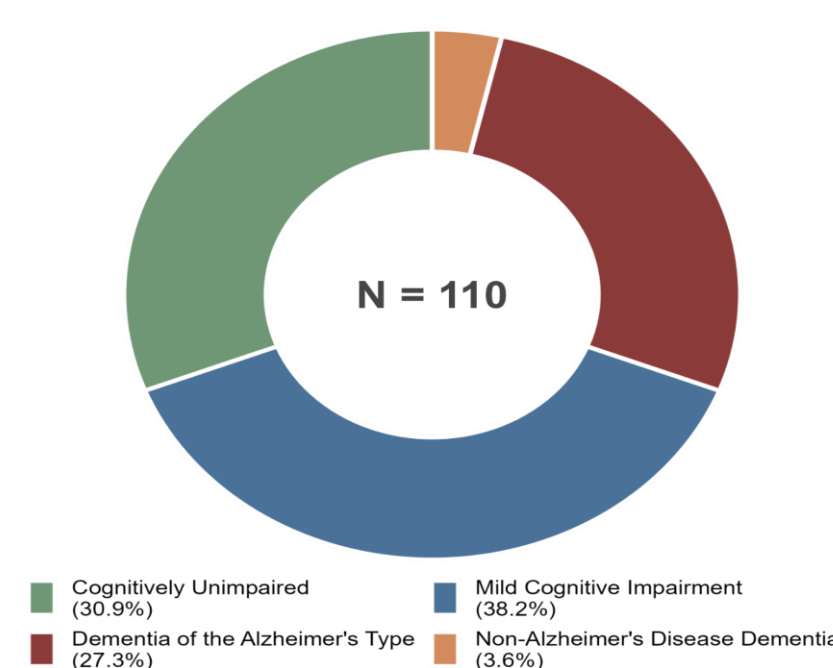


Figure 1. Diagnostic distribution of the cohort (N=110).

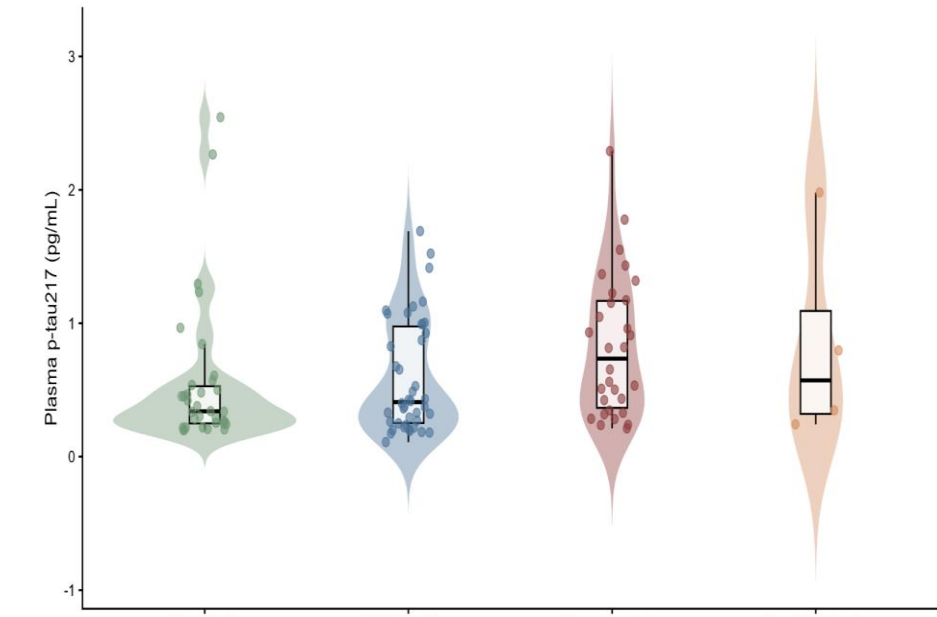


Figure 3. Plasma p-tau217 levels by clinical diagnosis (N=110). Violin plots show data distribution; points represent individual participants.

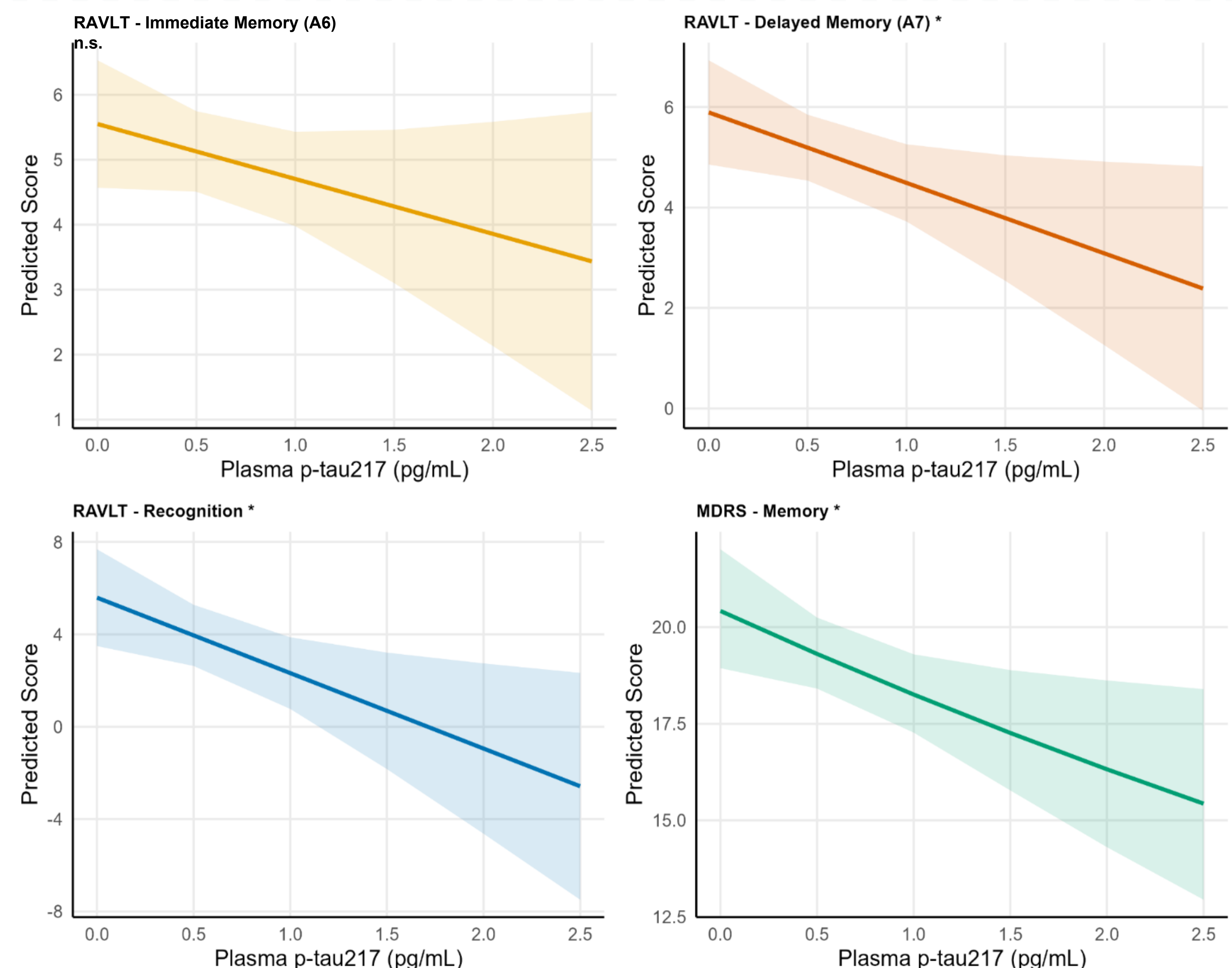


Figure 2. Cognitive associations. Linear regression of RAVLT and MDRS memory scores against p-tau217 levels. Abbreviations: MDRS: Mattis Dementia Rating Scale; RAVLT: Rey Auditory-Verbal Learning Test. Shaded bands show 95% CIs. Asterisks (*) denote significant models (p < .05); n.s.= non-significant.

CONCLUSION

Plasma p-tau217 levels were significantly associated with episodic memory performance, highlighting its potential value as an accessible blood-based biomarker in Brazilian clinical settings.

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