Impact of AD Co-Pathology on Response to Neflamapimod Treatment in Patients with Dementia with Lewy Bodies

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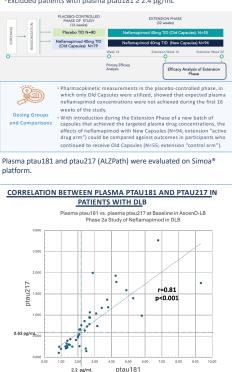
INTRODUCTION AND OBJECTIVES

Neflamapimod, an oral drug that targets basal forebrain cholinergic dysfunction and degeneration was recently reported (AD/PD 2025) in patients with DLB without AD co-pathology to slow clinical progression, assessed by CDR-SB in the RewinD-LB Phase 2b Study. Exclusion criteria for AD co-pathology (2 2.4 pg/mL plasma pta1181 at screening) in RewinD-LB was based on evaluation of data from an AD dementia cohort that indicated 90% specificity for AD co-pathology. Herein, we compared the effect of different cut-offs, 2.2 pg/mL, and 1.8 pg/mL (the Youden's cut-off for either CSF ptau181 or CSF tau in the AUMC DLB cohort) on the primary outcome measures. The correlation between plasma ptau181 and ptau217 was also evaluated in samples obtained in phase study.

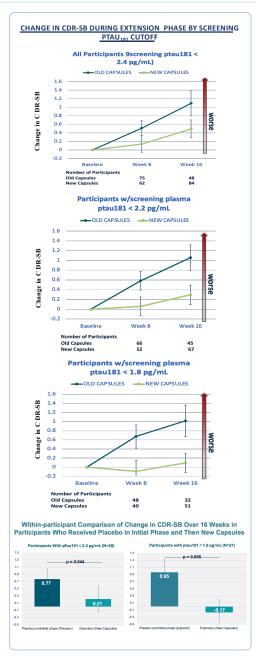
DESIGN AND METHODS

PATIENTS

- 159 patients with dementia with Lewy bodies by consensus clinical criteria
- CDR global score of 0.5 or 1.0 at baseline
- Excluded patients with plasma ptau181 ≥ 2.4 pg/mL



Utilizing published cutoffs for ptau217 (0.63 pg/mL) and ptau181 (2.2 pg/mL) there is 92% concordance for presence or absence of AD copathology. Similar results have been obtained in an analysis of plasma ptau217 and ptau181 in the subset with plasma ptau181 > 1.8 pg/mL in the RewinD-LB study.



larger participant numbers the phase 2a finding that AD copathology impacts response to neflamapimod treatment. The established ptau181 cutoff of 2.2 pg/mL for AD also appears to be the optimal cutoff to maximize neflamapimod treatment response without screening out a large proportion of individuals who do not have A co-pathology

CONCLUSIONS

The results further demonstrate that neflamapimod beneficially

impacts clinical progression in patients with DLB and confirm with

 Plasma ptau217 and plasma ptau181 provide largely concordant results when utilized to identify AD Co-Pathology in patients with DLB.

KAPLAN-MEIER ANALYSIS OF TIME TO CLINICALLY RELEVANT PROGRESSION ≥ 1.5 POINT INCREASE IN CDR-SB) BY PTAU181 CUTOFF

