



ALTITUDE-AD: Use of a Validated Plasma pTau217 Assay to Screen Potential Participants in an Ongoing Randomized, Double-Blind, Placebo-Controlled Phase 2 Study of Sabirnetug for Early Symptomatic Alzheimer's Disease

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Disclosure

- Dr. Siemers is an employee and shareholder at Acumen Pharmaceuticals

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Sabirnetug (ACU193) Overview

- **Sabirnetug**

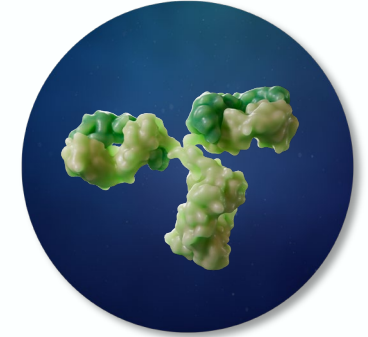
- Humanized monoclonal IgG2 antibody
- Highly selective for globular amyloid beta oligomers (A β Os)
- Clinical effect on synaptic biomarkers consistent with proposed mechanism of targeting A β Os²

- **INTERCEPT-AD Phase 1 clinical trial (NCT04931459, completed)^{1,2}**

- US-only study in early symptomatic AD (MCI or mild dementia with amyloid positivity based on PET)
- SAD and MAD study design
- Objectives: safety, pharmacokinetics, and target engagement

- **ALTITUDE-AD Phase 2 clinical trial (NCT06335173, ongoing)**

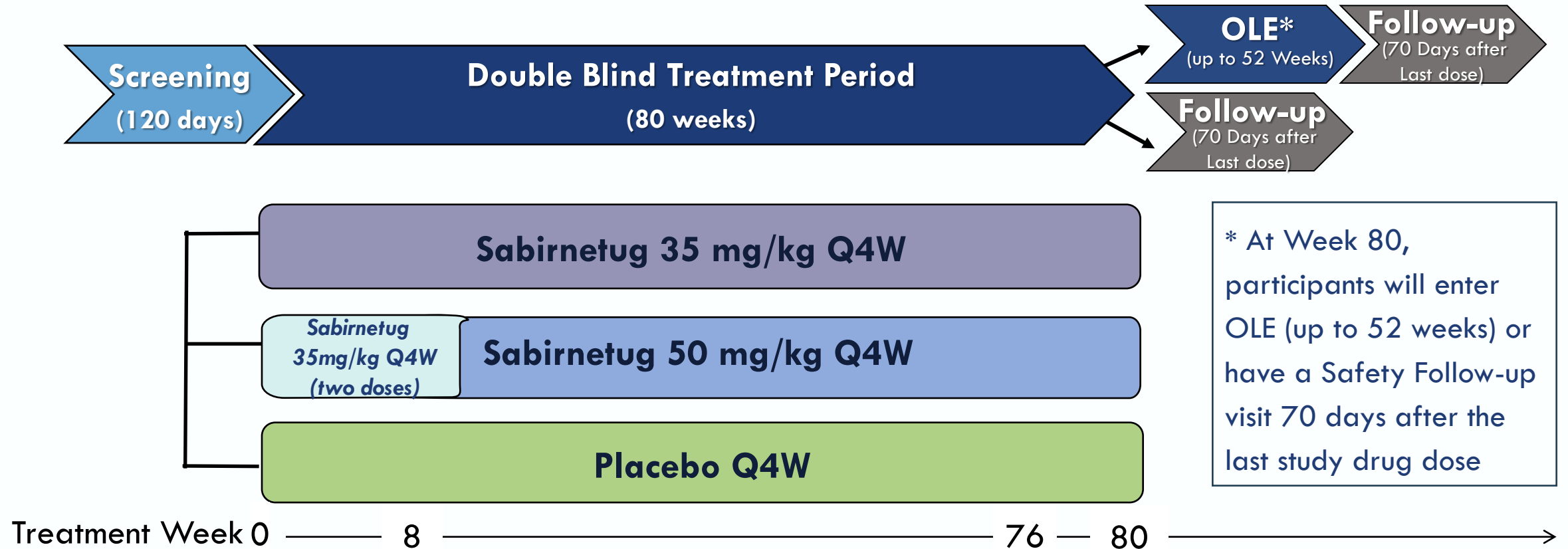
- Global study in MCI or mild AD participants
- US, Canada, UK, Germany and Spain
- MMSE: 22-30
- CDR-GS: 0.5 or 1 and CDR Memory Box ≥ 0.5
- Primary objective: evaluate efficacy in slowing cognitive and functional decline
- iADRS change from baseline to Week 80



1. Siemers et al. (2025) JPAD 12(1):100005
2. Cline et al. (2025) JPAD 12(4):100082

ALTITUDE-AD: Phase 2 Study Design of Sabirnetug for Early AD

542 participants randomized 1:1:1

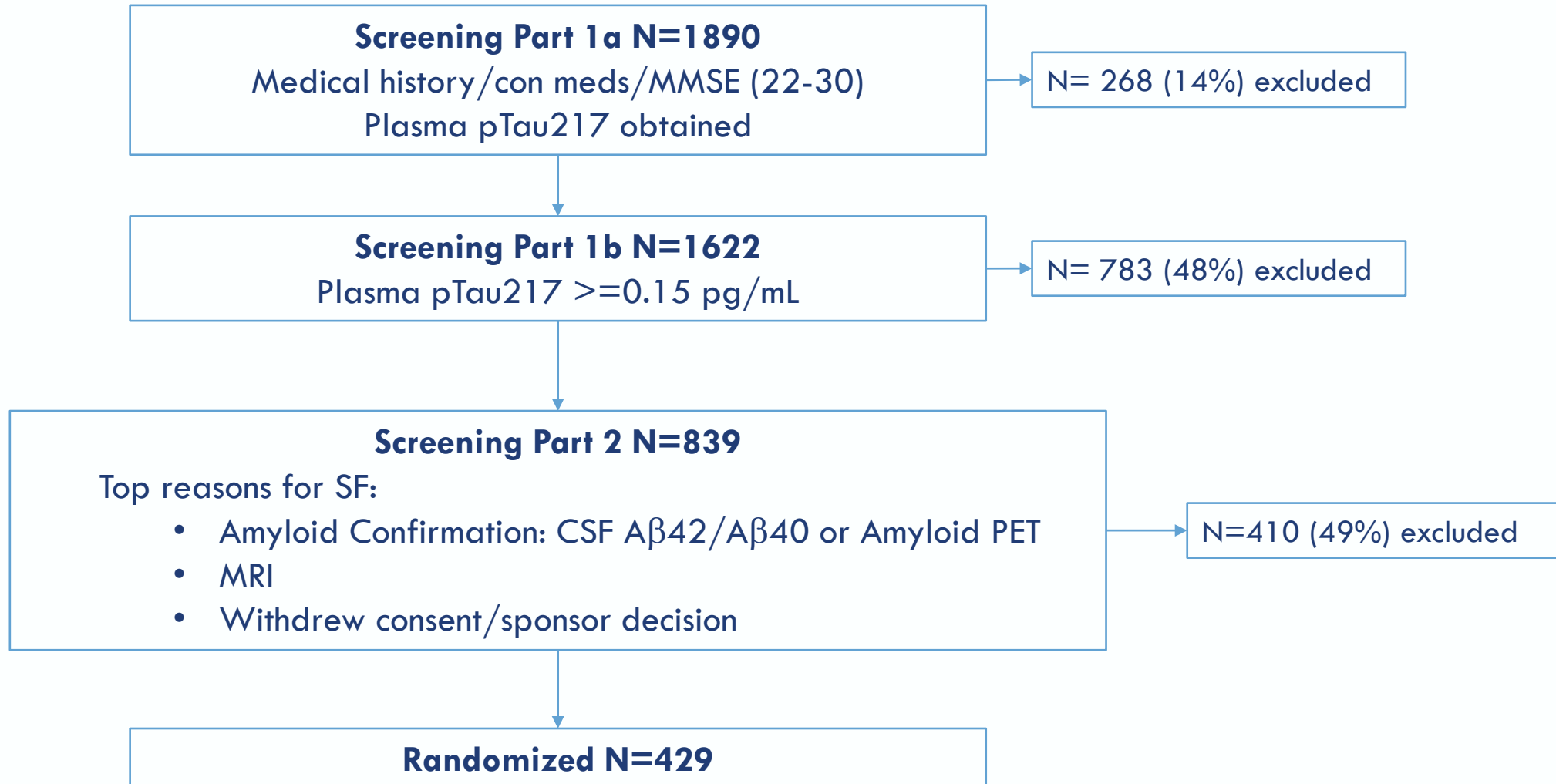


In ALTITUDE-AD, Screening with Plasma pTau217 was Introduced to Reduce PET/LP Burden

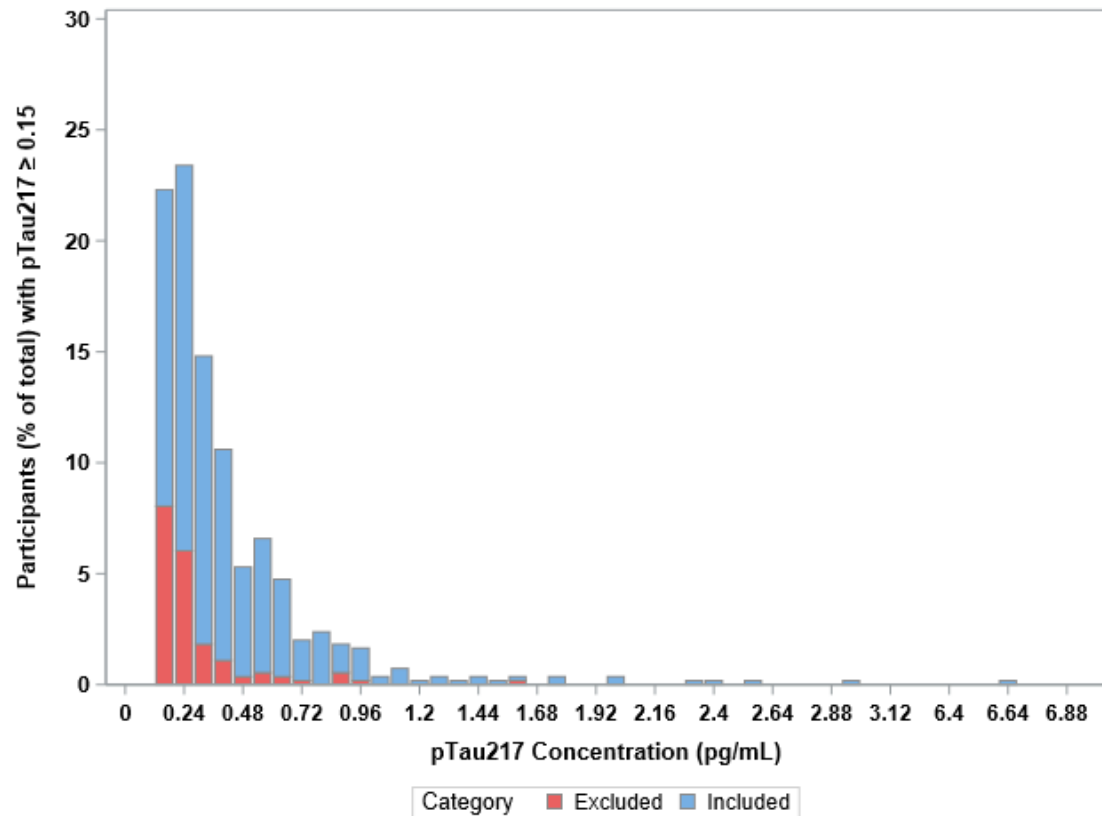
- Plasma concentrations of pTau217 are highly predictive for amyloid pathology¹
 - pTau217 is being used as an enrichment strategy to help identify potential participants with a high likelihood of meeting amyloid inclusion criteria on PET or CSF
 - The assay is not being used as a stand-alone diagnostic
- The Fujirebio plasma pTau217 assay is a Lumipulse platform-based research use only assay that has been analytically and clinically validated as a Lab-Developed Test consistent with CLIA regulations
- Plasma pTau217 testing was not used in UK, Spain, and Germany due to lack of “CE marking” and additional hurdles related to GDPR regulations
- For screening, we selected the pTau217 cut-point of 0.15 pg/mL because of its the high sensitivity (0.992) in this assay

1. Ashton NJ, et al. (2024) *JAMA Neurol*, 81(3):255–263.

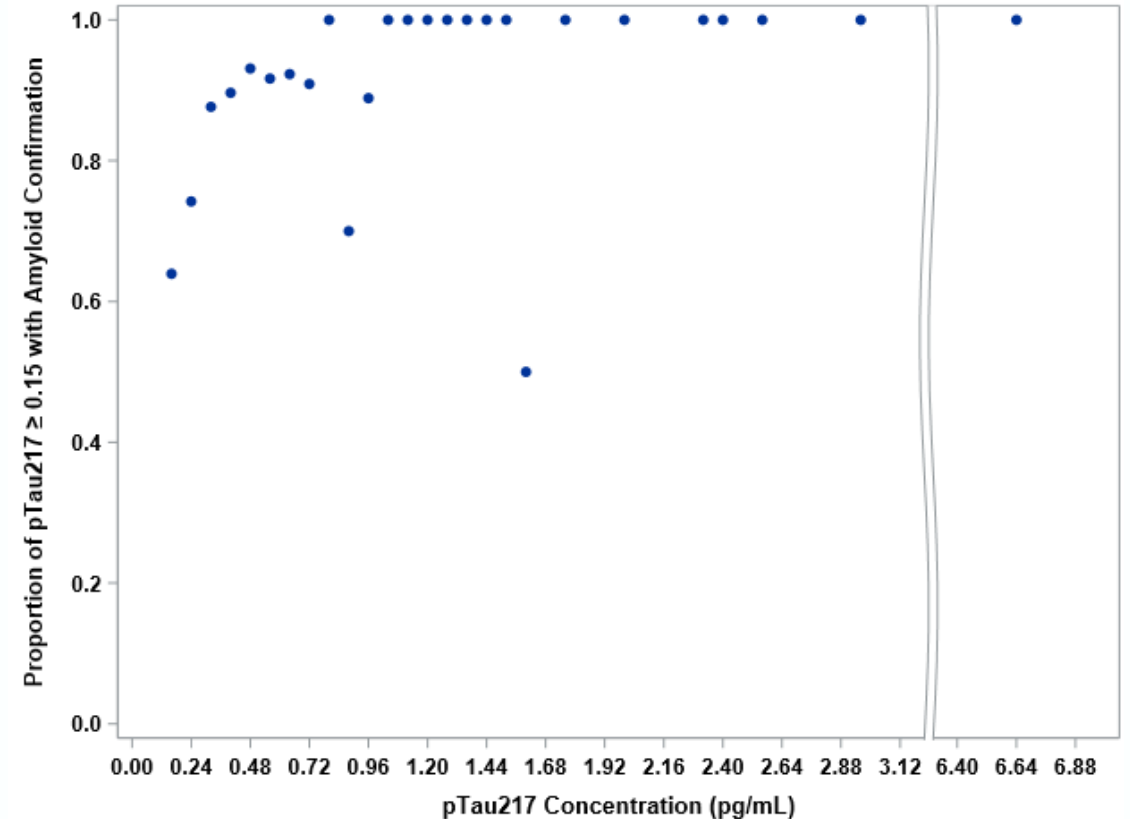
ALTITUDE-AD: Two-Part Screening Process (preliminary data shown for US and Canada only)



Amyloid Status for Participants with Plasma pTau217 ≥ 0.15 pg/mL

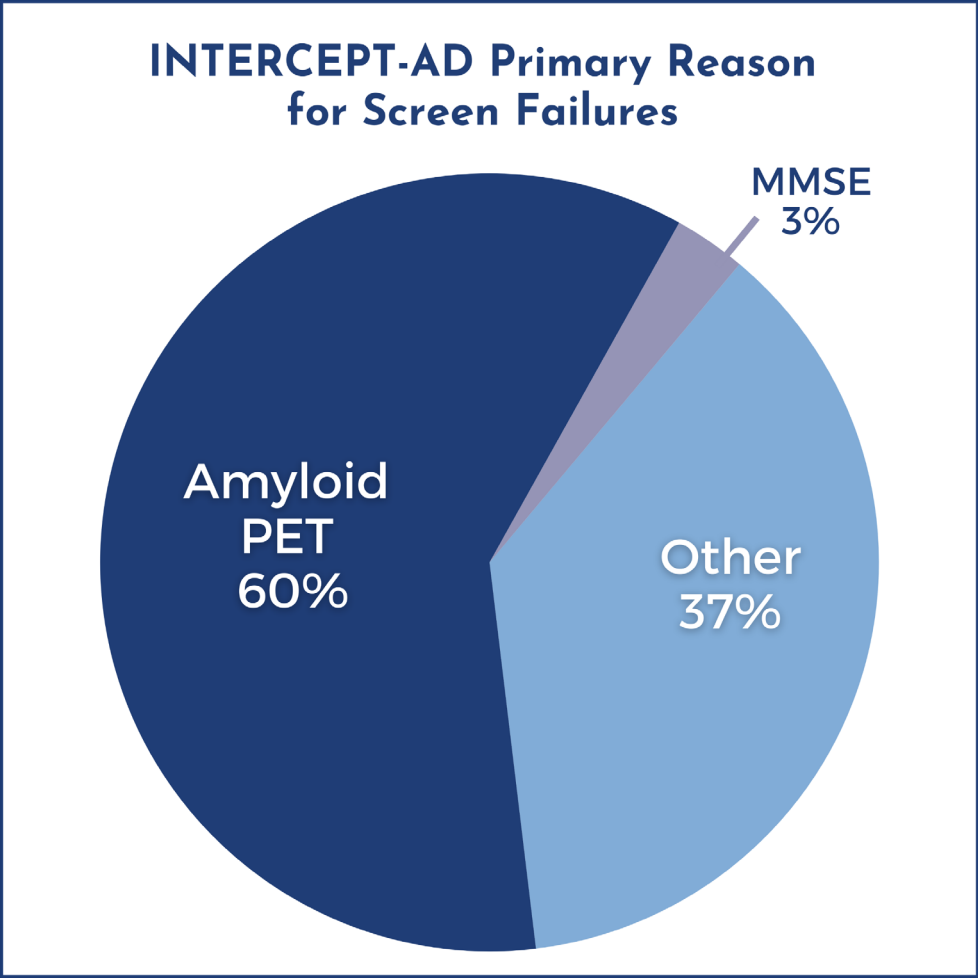


- Graph shows the percentage of participants included or excluded from the study based on amyloid status after a positive pTau217 result
- Bin width represents a pTau217 range of 0.08 pg/mL

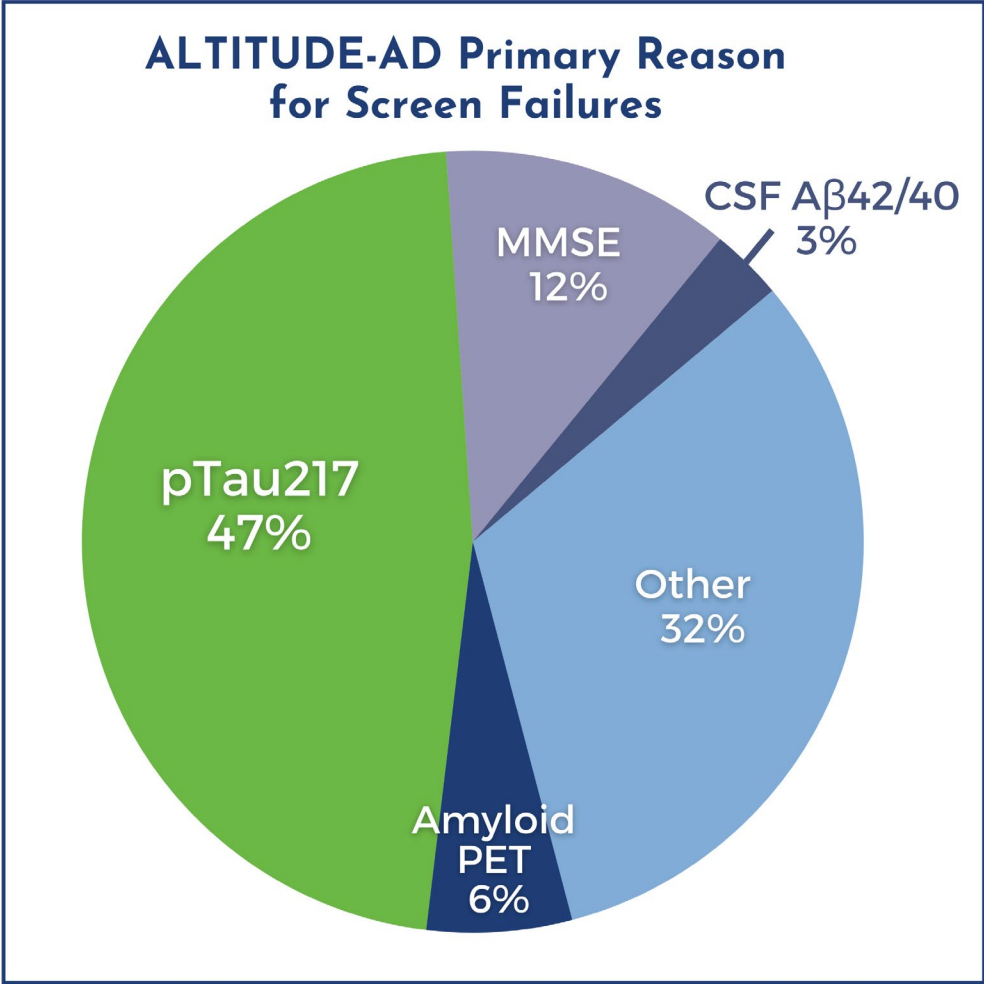


- Graph shows the proportion of participants with positive PET or CSF after a positive pTau217 result
- Bin width represents a pTau217 range of 0.08 pg/mL

Screening with Plasma pTau217 Greatly Reduced Screen Failure due to Amyloid PET



Final US data



Preliminary global data

Summary

The pTau217 enrichment strategy performed as intended

- Improved amyloid positive screen rates
 - 81% of the participants who proceed to PET or CSF are positive for meeting amyloid-based inclusion criteria
 - Significant improvement from INTERCEPT-AD where only 40% of participants were amyloid positive using PET
- Reduced participant burden and sponsor costs
 - Almost half of potential study participants excluded because of a plasma pTau217 test result <0.15 pg/mL
 - Reduced burden for patients, clinical trial investigators/staff, and sponsor
 - Amount of radiation exposure with an amyloid PET or burden of LP was reduced
 - Savings in time and resources

Acknowledgments

- The authors are grateful to the study participants and their study partners, as well as the study investigators and staff, all of whom make the ALTITUDE-AD clinical trial possible

Thank you!