



Targeting Amyloid Beta Oligomers:

A Disruptive Approach to the
Treatment of CNS Disorders

November 2024

Forward-looking Statements

FORWARD-LOOKING STATEMENTS

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Cognition Snapshot

Successful Phase 2 AD trial read out plus studies ongoing in other indications

Alzheimer's Disease

- Pursuing 2 populations: mild-to-moderate; and early / MCI
 - ✓ Achieved goals of Phase 2 SHINE study in mild-moderate AD
 - Phase 2 START ongoing in early AD with ACTC
- Oral QD drug with no added ARIA-risk, important differentiator
- Extensive preclinical/clinical foundation supports oligomer antagonism approach

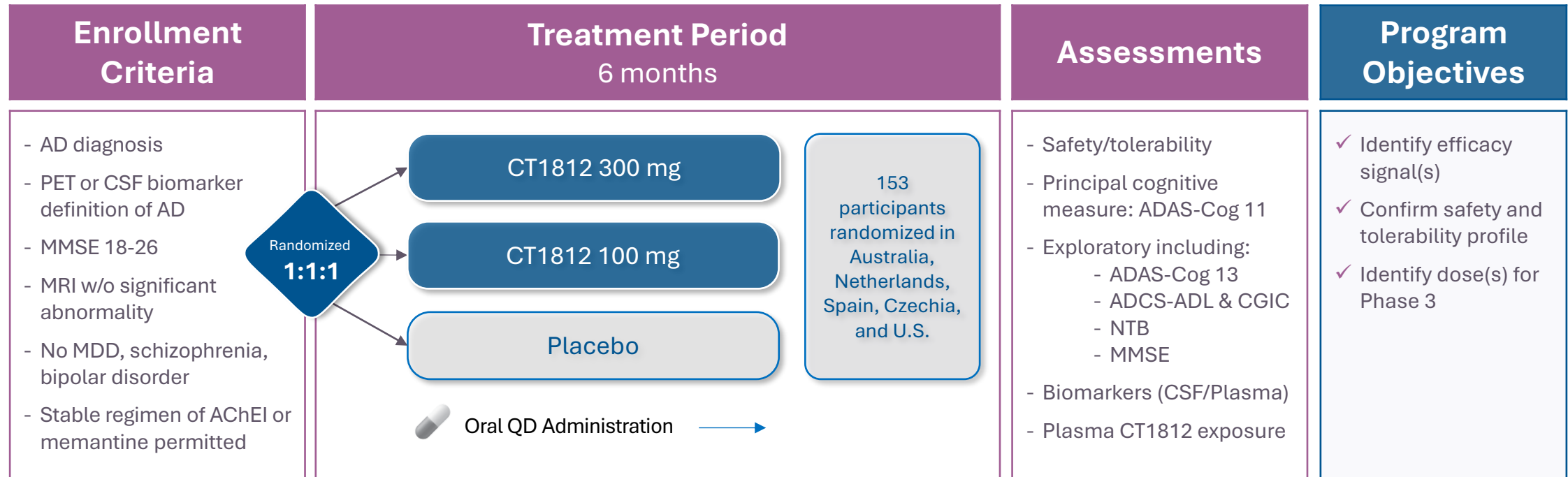
Dementia with Lewy Bodies (DLB)

- Phase 2 signal-finding SHIMMER study in mild-to-moderate DLB completed enrollment; data year-end 2024
 - Will determine CT1812's impact on constellation of symptoms
- No approved d-m treatments
- CT1812 protects against oligomers of both amyloid beta ($A\beta$) and alpha-synuclein (α -syn)

Geographic Atrophy Secondary to dry AMD

- Phase 2 signal-finding MAGNIFY study in geographic atrophy (GA) ongoing
 - Will determine to what extent CT1812 protection of RPE cells preserves vision
- Oral QD drug important differentiator from IVT therapies

SHINE Phase 2 Study in Amyloid-positive Adults with Mild-to-Moderate Alzheimer's Disease



SHINE COG0201 study (NCT03507790) partially funded by \$31M NIA grant R01AG058660

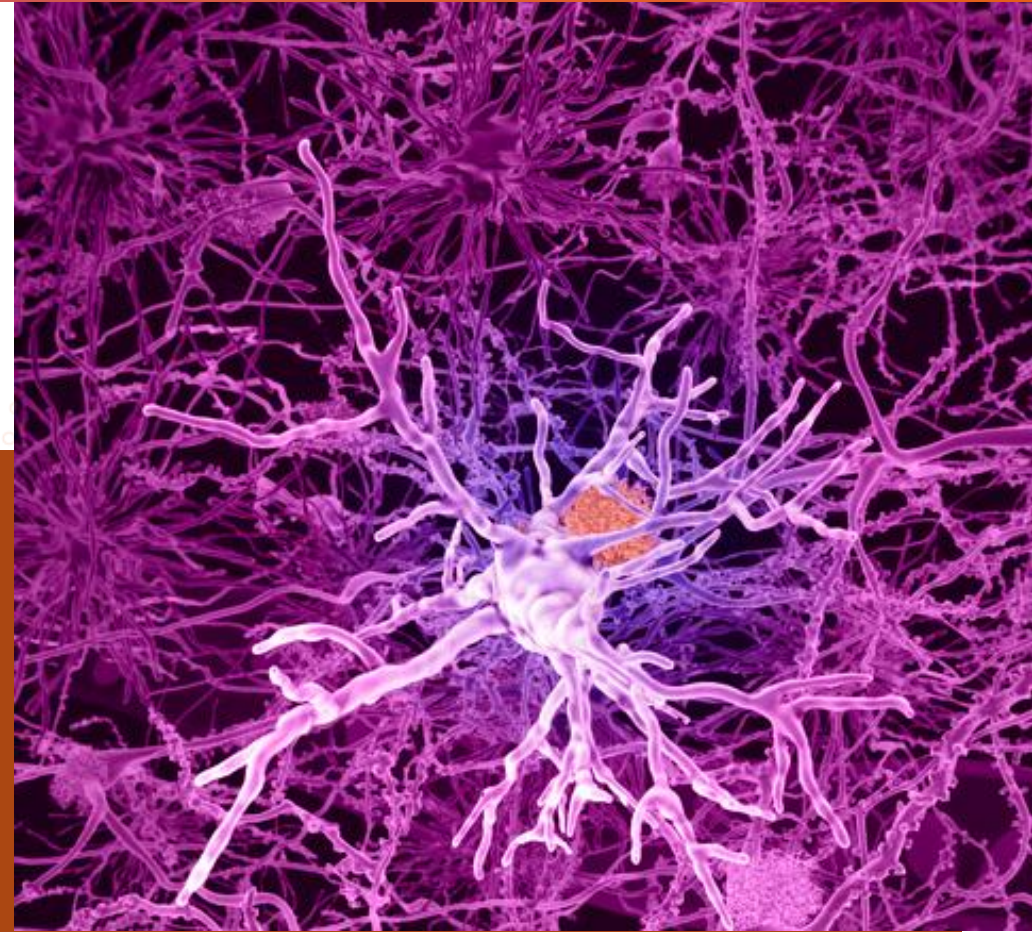
SHINE Patient Population

- PET- or biomarker-confirmed Alzheimer's disease
- Majority of participants were female (60%), Caucasian (96%), approximately 72 years of age
- Mean MMSE score upon entry: 21.37
- ~60% of patients were carriers of the ApoE4 gene
- Characteristics well-balanced between all 3 arms

Phase 2 *Topline* Results in Alzheimer's Disease

39% slowing of cognitive decline in
CT1812-treated 'SHINE' participants

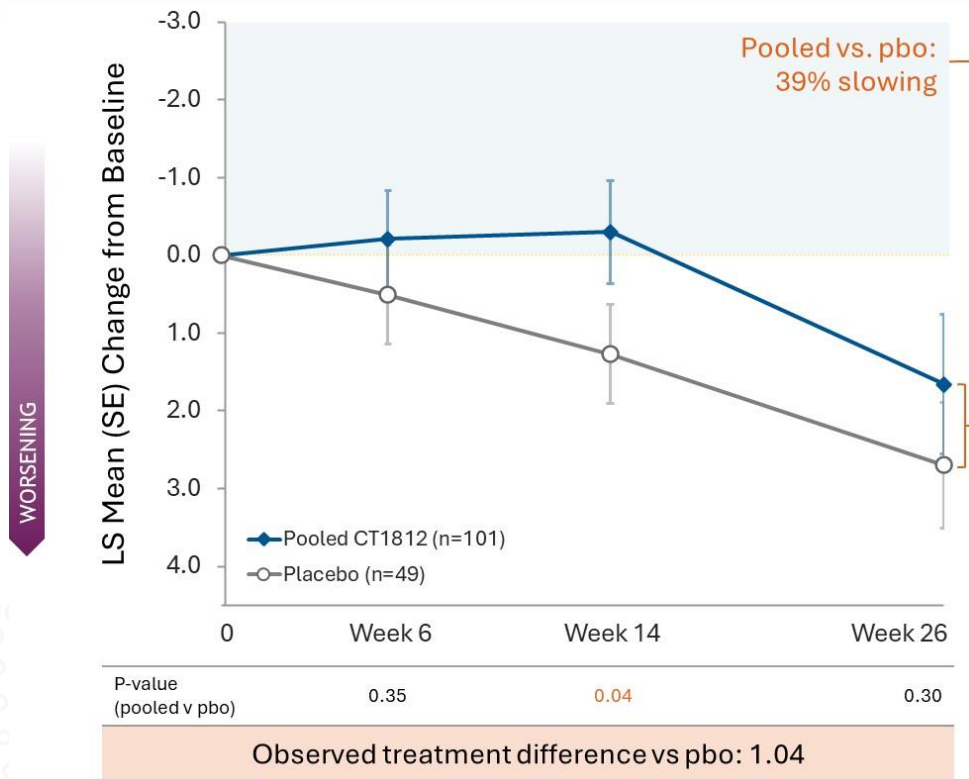
*Amyloid positivity confirmed for all
participants by CSF or PET*



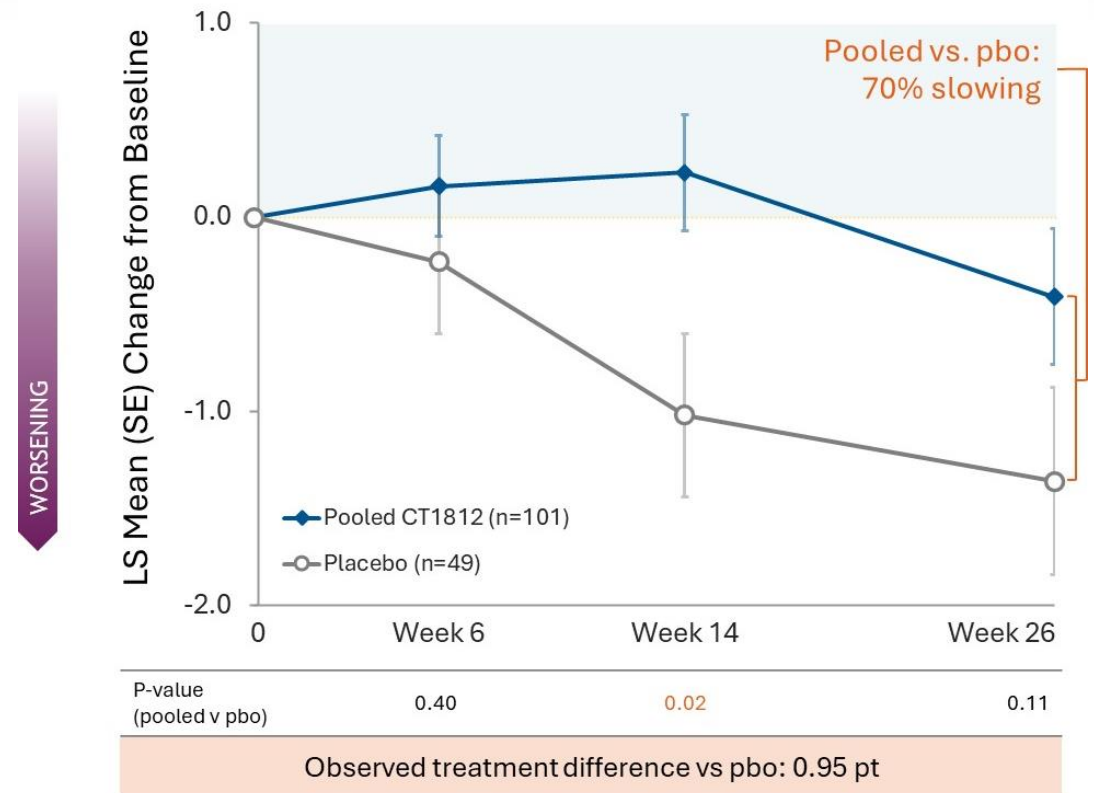
SHINE Cognitive Endpoints: ADAS-Cog 11 and MMSE

Magnitude of ADAS-Cog 11 decline at 6 months similar to approved MAb

ADAS-Cog 11* mITT population (n=150)

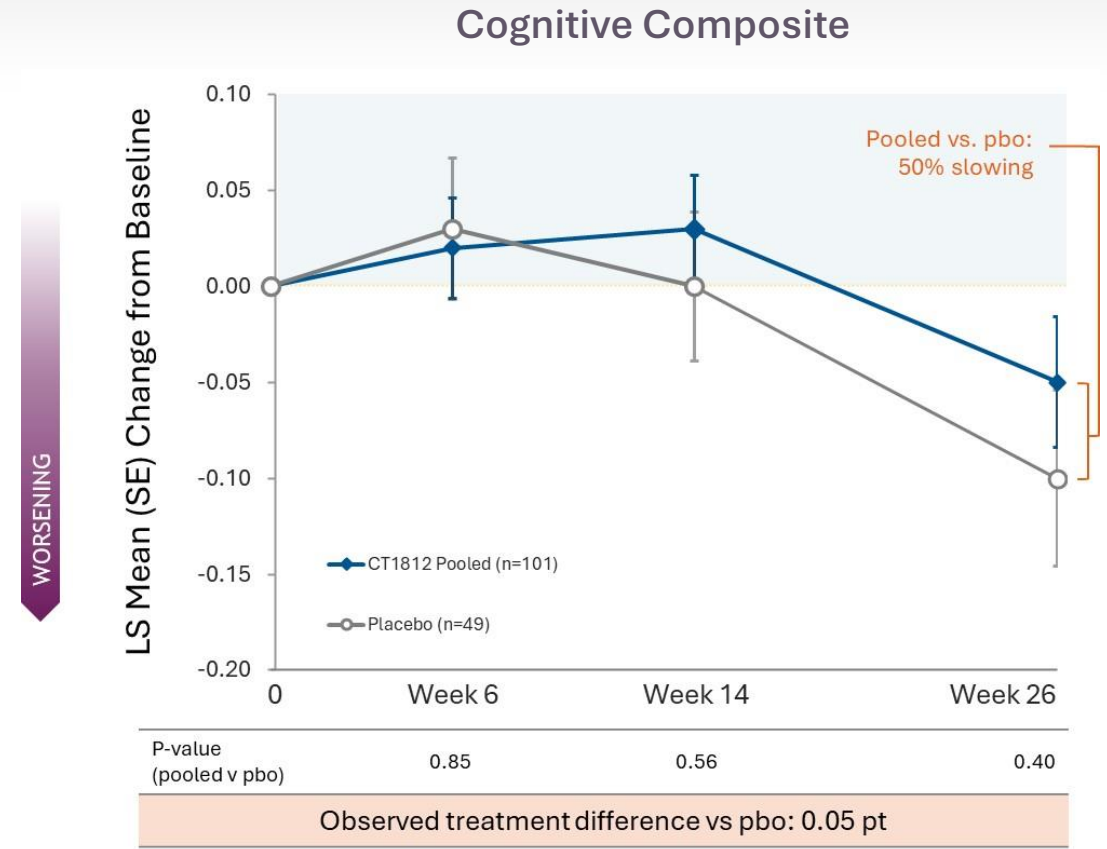
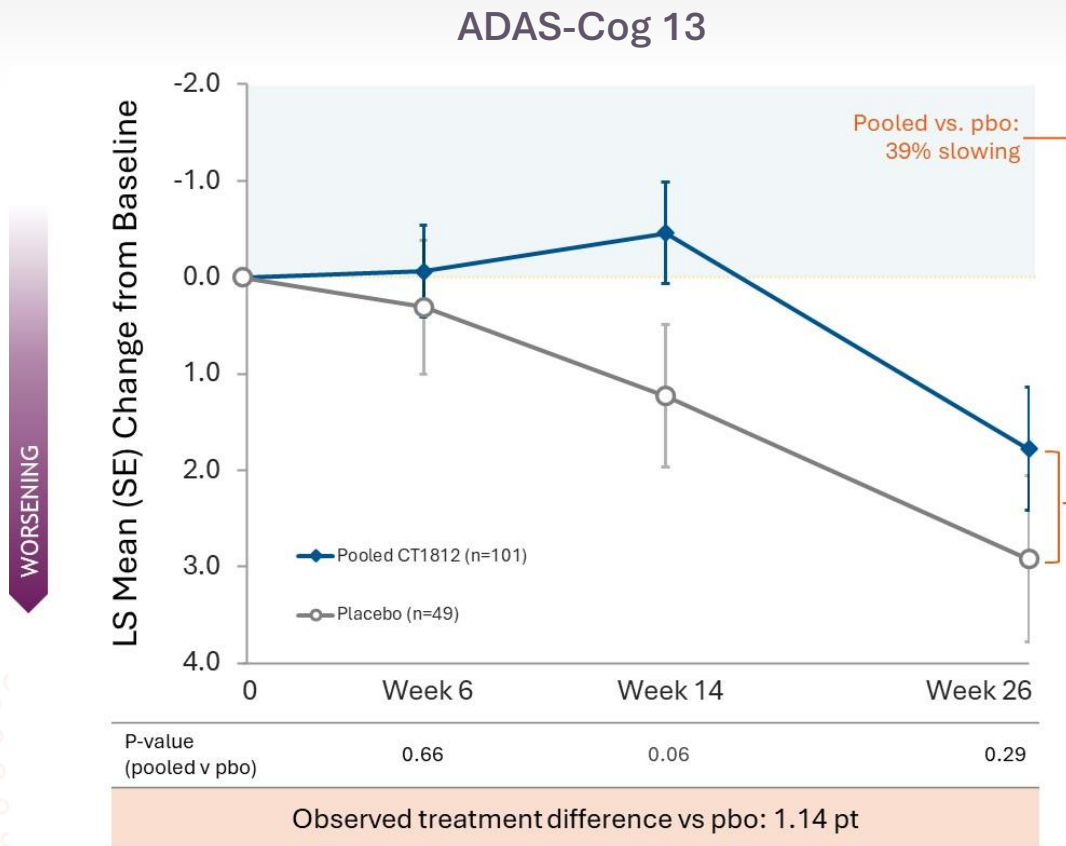


MMSE mITT population (n=150)



SHINE Cognitive Endpoints: ADAS-Cog 13, Cognitive Composite

Consistent results across multiple cognitive endpoints



CT1812 Market Opportunity

Insights from a Survey of Neurologists

Survey Design:

- 51 neurologists from academic, community or private settings who treat over 13,000 Alzheimer's patients annually were surveyed
- None were involved in CT1812 clinical trials

Current Options for Alzheimer's Disease:

- Two recently approved monoclonal antibodies: lecanemab and donanemab
- Acetylcholinesterase (AChE) inhibitors: donepezil, galantamine, and rivastigmine
- NMDA receptor antagonist: memantine

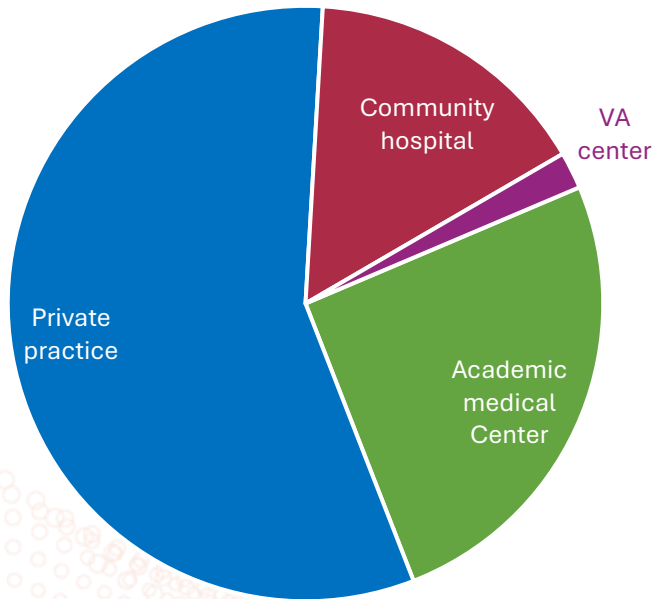
Market Opportunity:

- 7 M in the U.S. & 55 M worldwide have Alzheimer's*

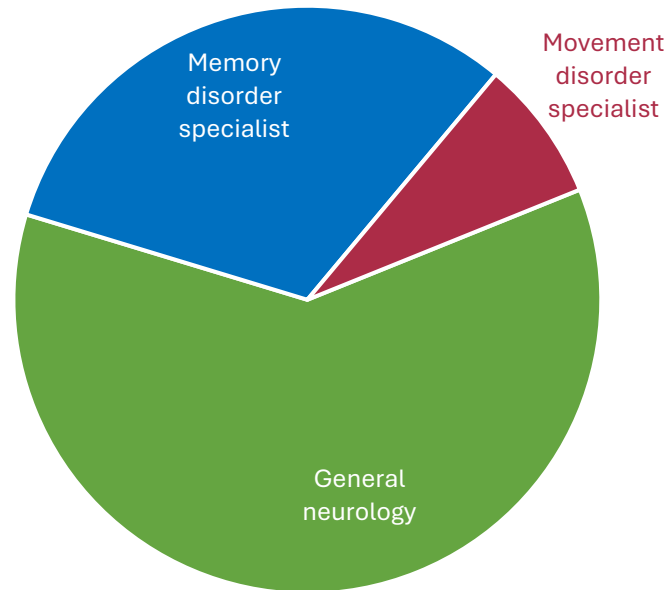
SHINE Data Feedback from Neurologists

Surveyed diverse group of 51 neurologists who treat over 13,000 AD patients annually

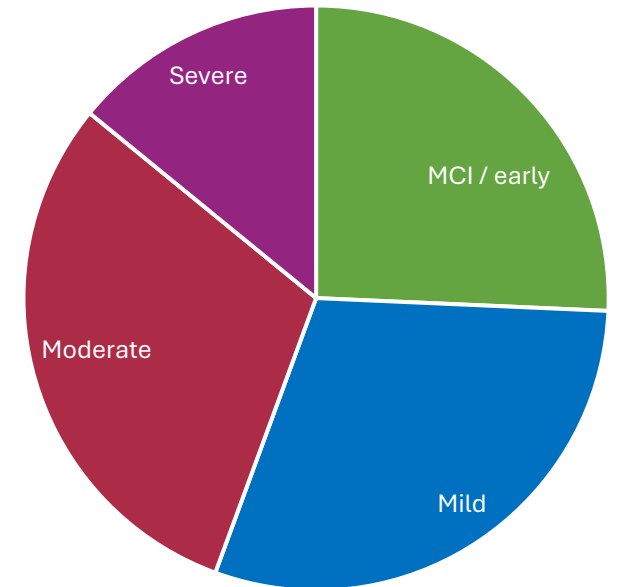
Cross Section of Practice Setting



Cross Section of Specialties

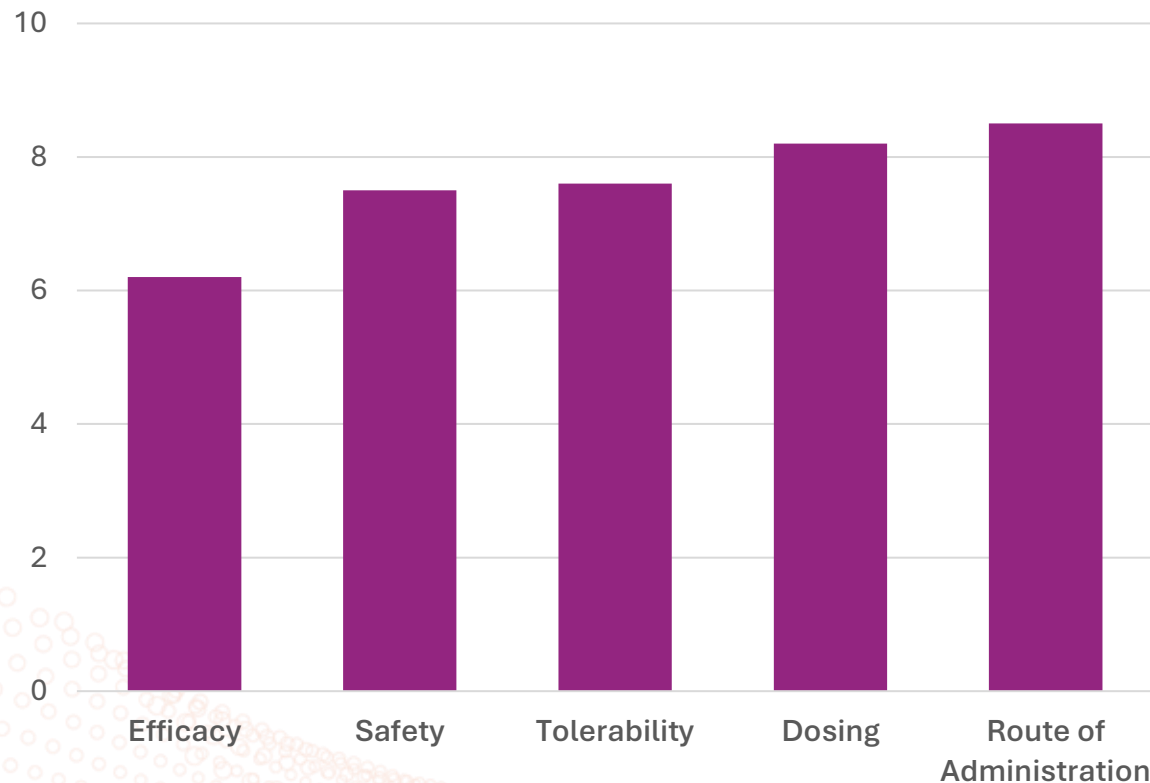


Cross Section of Patients (MMSE)



CT1812's Safety and Oral Delivery Appealed to Neurologists

Most Appealing Features of CT1812's
Product Profile
(10-pt scale)



“Ease of dosing as oral medication”

“Oral medication without ARIA risks”

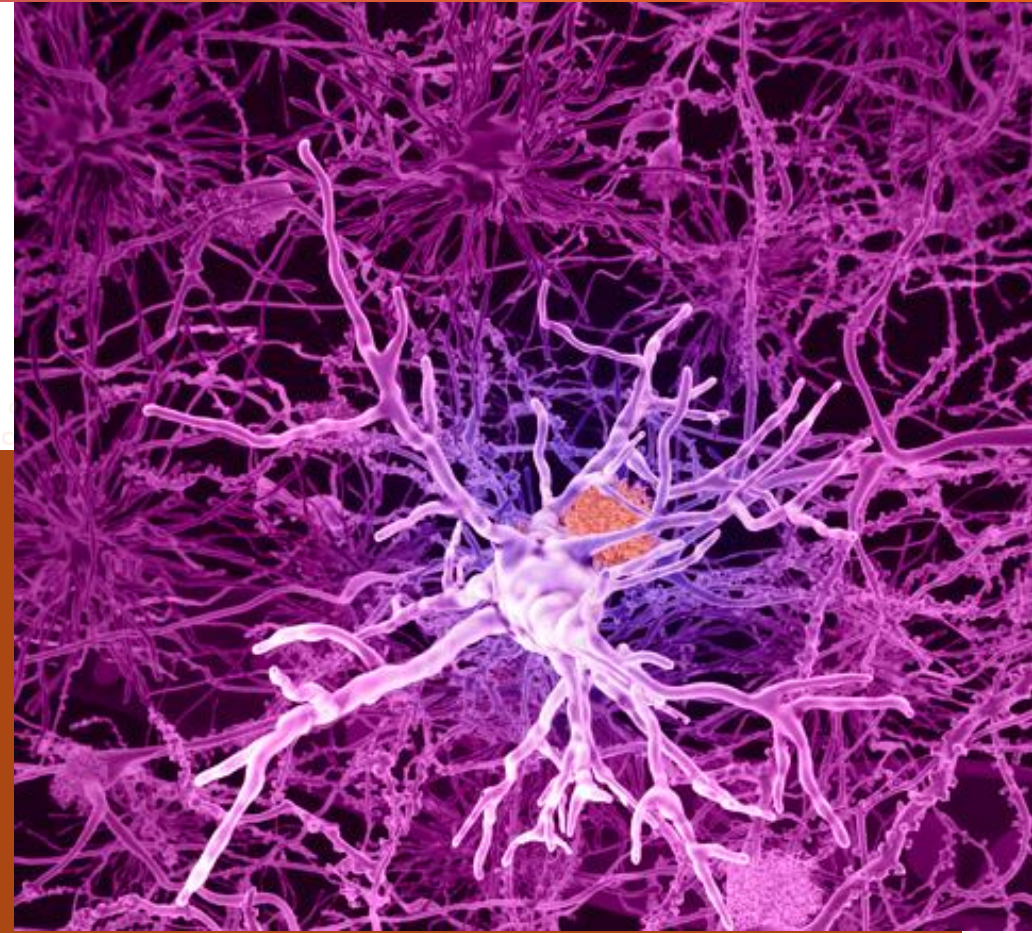
“Pill form is always welcome over an IV infusion”

“Does not require infusion or intensive monitoring”

Prespecified Subgroup Analysis from Phase 2

95% slowing of cognitive decline in
lower-p-tau217 'SHINE' participants

*Amyloid positivity confirmed for all
participants by CSF or PET*



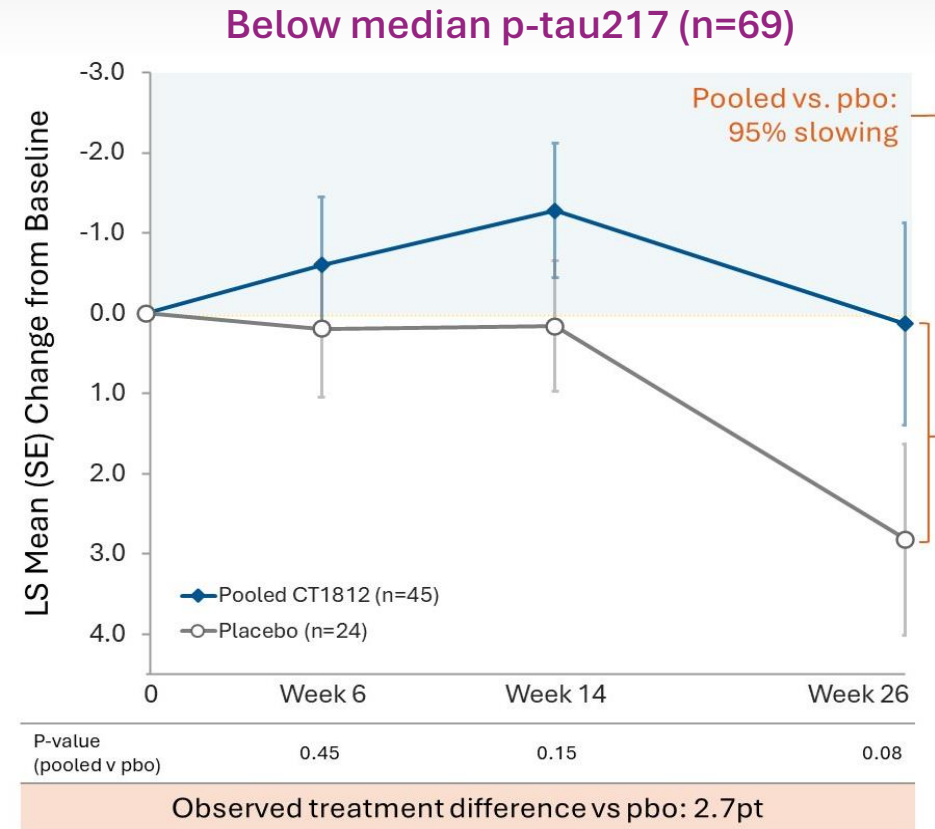
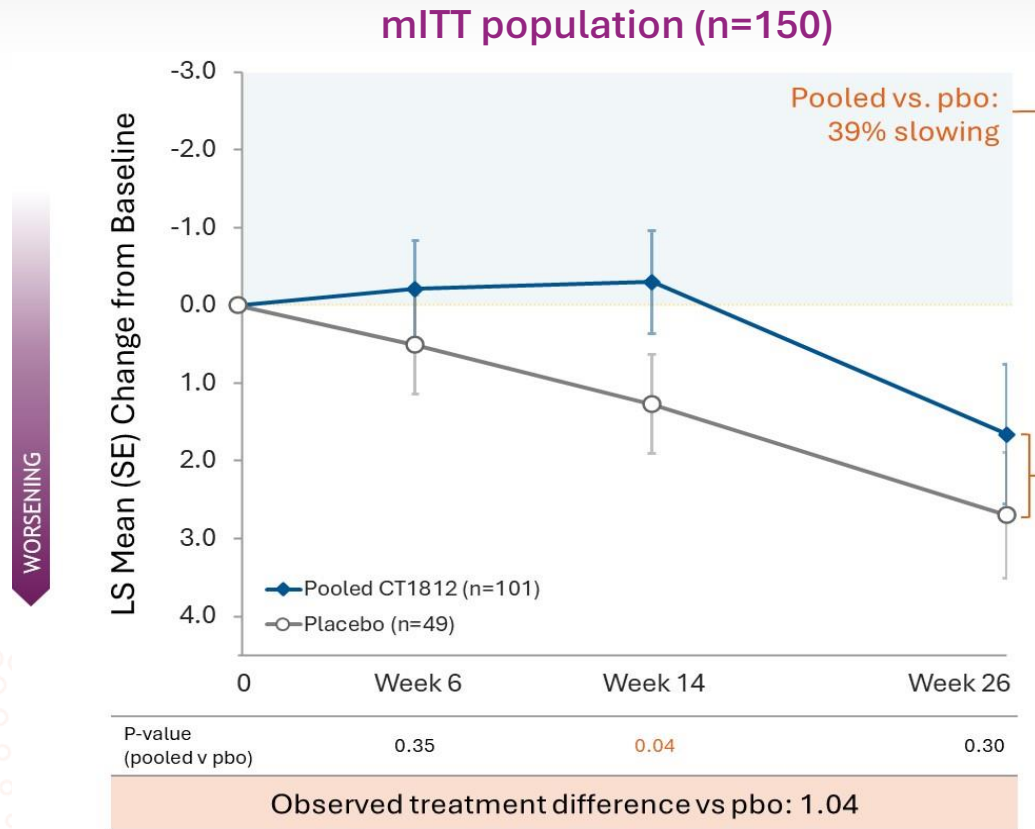
Tau Burden in Amyloid-related AD Clinical Trials

Baseline plasma p-tau217: a **predictive biomarker of response** to therapy

- Plasma p-tau217 reflects brain amyloid and tau burden
- Prior data indicate that individuals with lower AD pathology at baseline, as reflected by lower levels of plasma p-tau217, have greater response to amyloid-based therapies, eg:
 - Donanemab TRAILBLAZER 2*
 - iADRS: 36% slowing in low tau tercile
 - iADRS: 21% slowing in high tau tercile
- Given CT1812's MoA of displacing A β oligomers, we hypothesized that larger treatment effect may be observed in participants with lower plasma p-tau217
- Prespecified subgroup analysis defined by median baseline plasma p-tau217 within study population

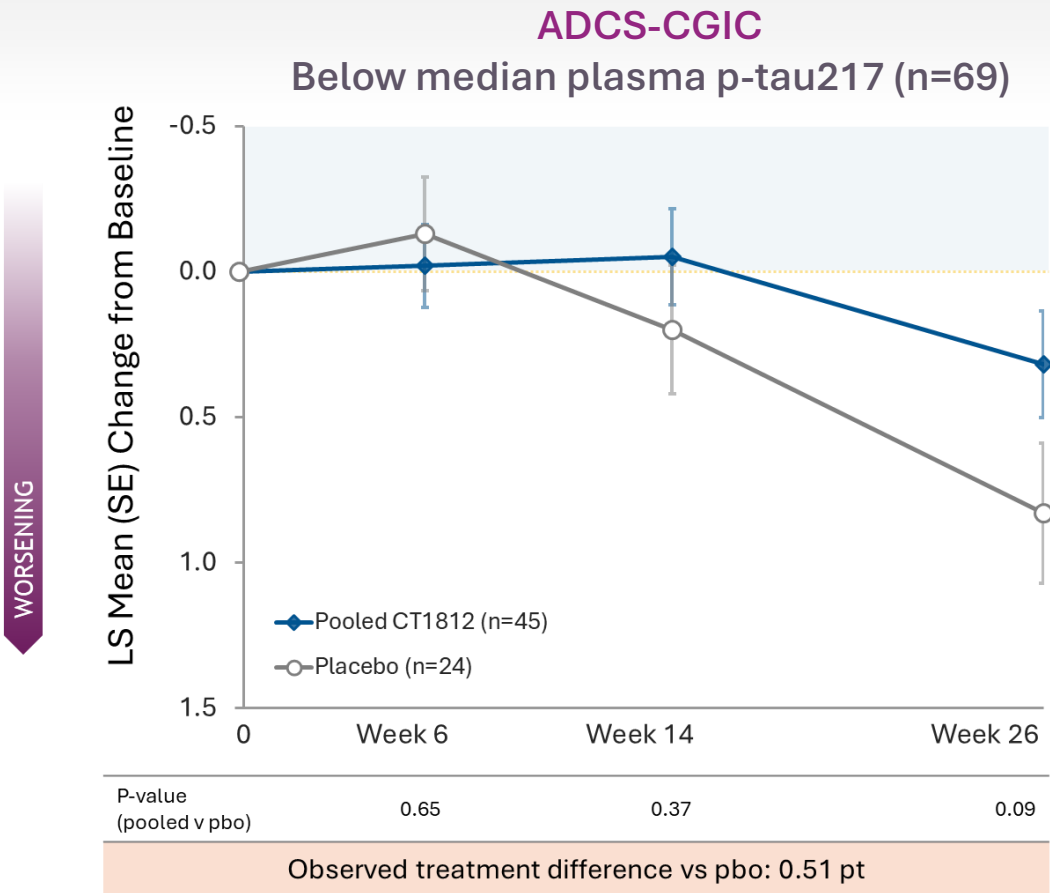
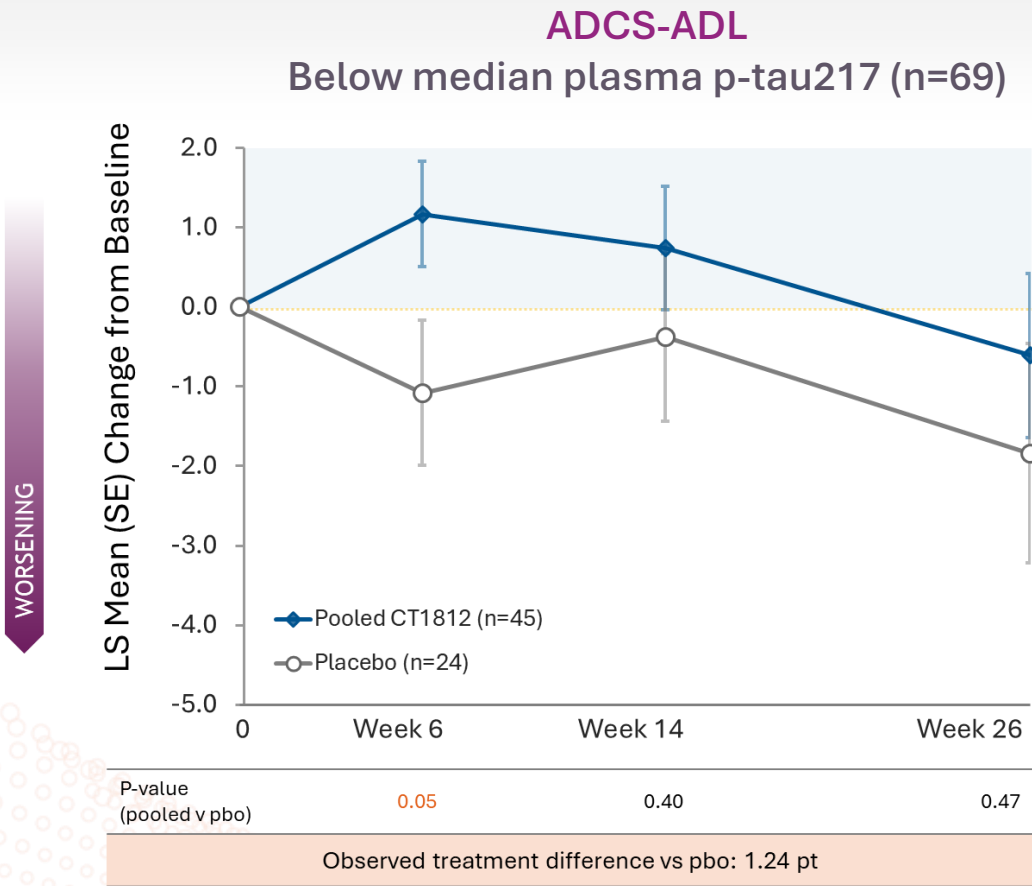
Below Median p-tau217, Treated Participants Experienced Profound Cognitive Effect

Preservation of ADAS-Cog 11 in participants below median plasma p-tau217[†]



Below Median p-tau217, Treated Participants Experienced Greater/Earlier Preservation of Function

Function and global impression preserved in participants below median plasma p-tau217*



CT1812 SHINE Study: Summary and Conclusions

Plasma p-tau217 biomarker identifies strong CT1812-treatment responder group

- CT1812 generally safe and well tolerated
 - Similar percentages of AEs in pooled treated and placebo groups
- All cognitive and functional measures trended in favor of CT1812
- Large cognitive impact observed in below-median plasma p-tau217 subgroup
- Will assess optimal plasma p-tau217 cut-point for future studies

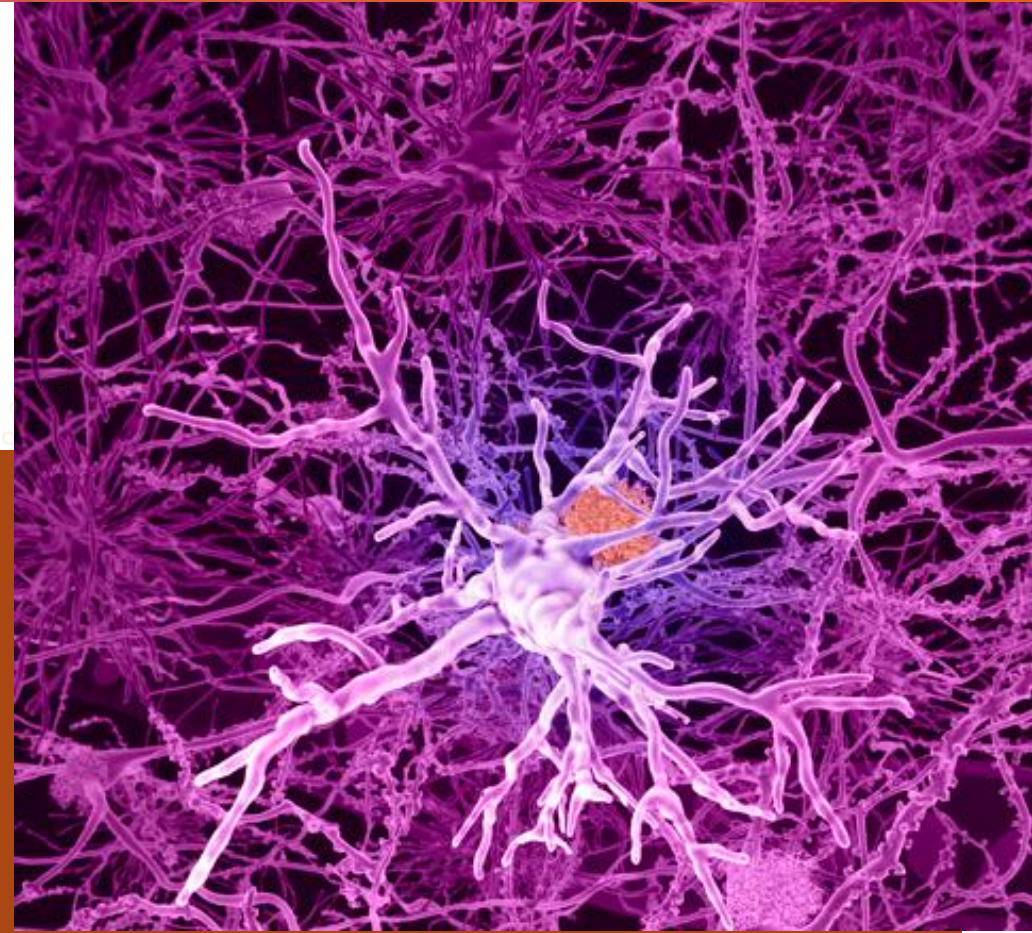
Full CTAD
Presentation



SHINE trial supports advancing CT1812 to Phase 3 in mild-to-moderate Alzheimer's disease in population defined by plasma p-tau217

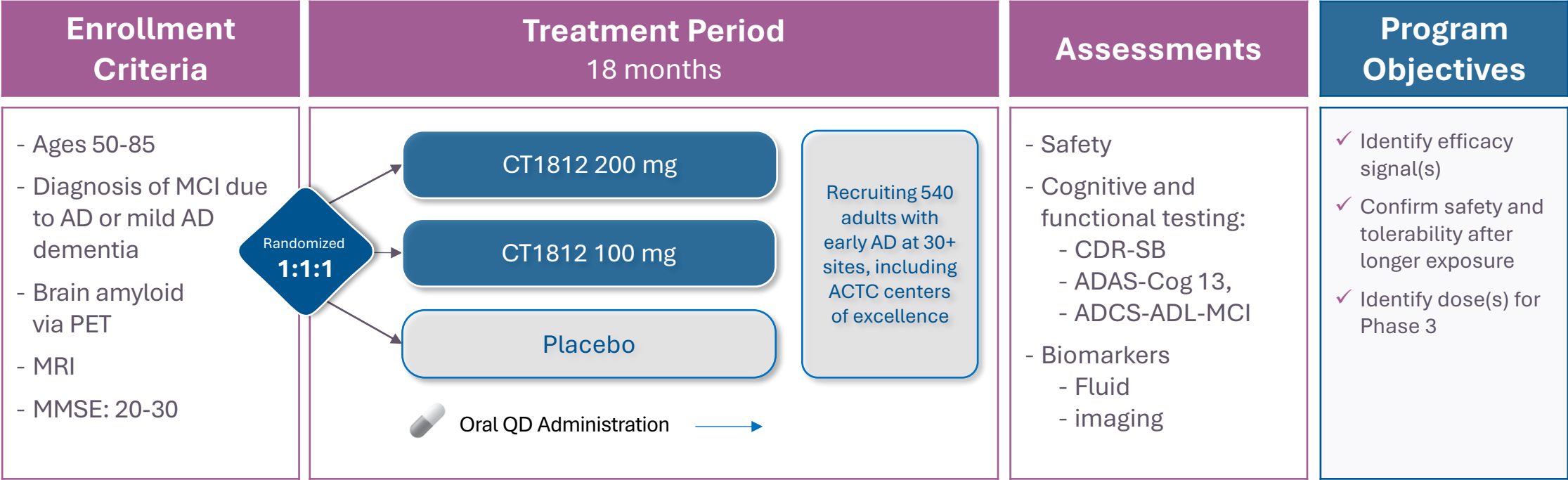
Alzheimer's Disease

START Study in early
Alzheimer's disease



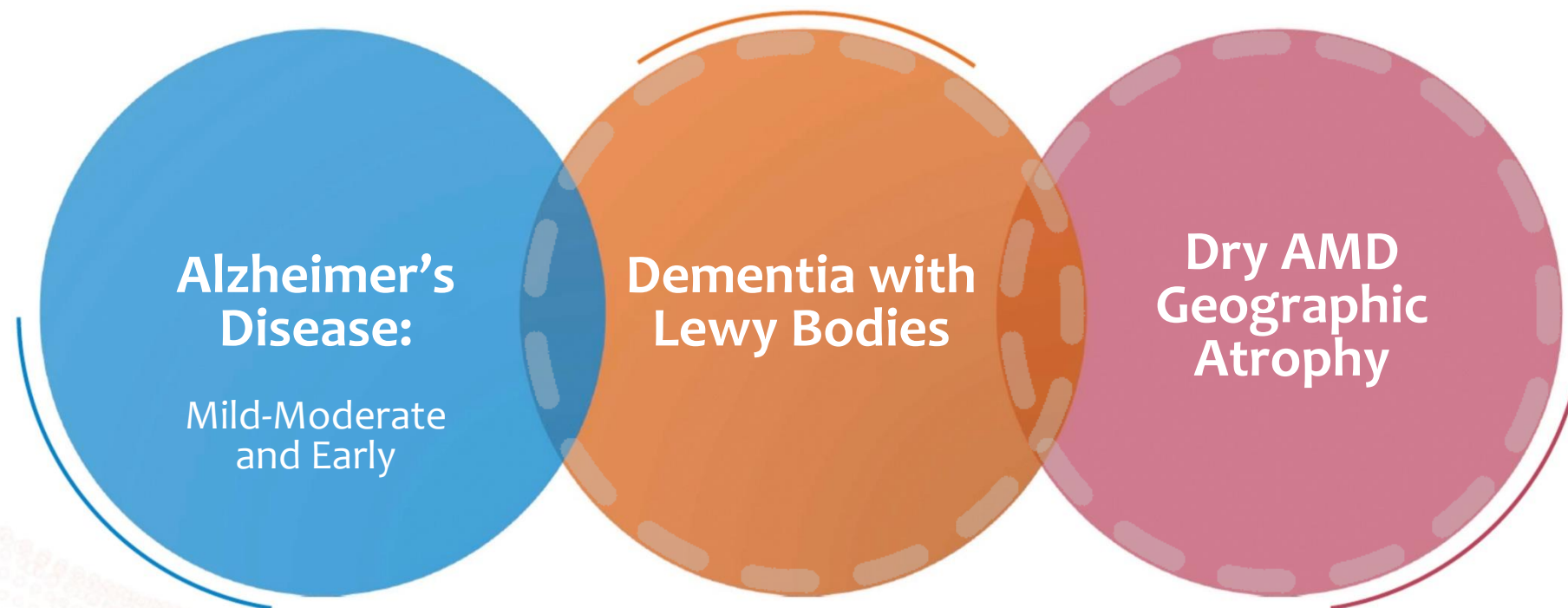
START - A 540-Person Study in Amyloid-positive Early AD

First study to allow lecanemab as background therapy in combination with CT1812



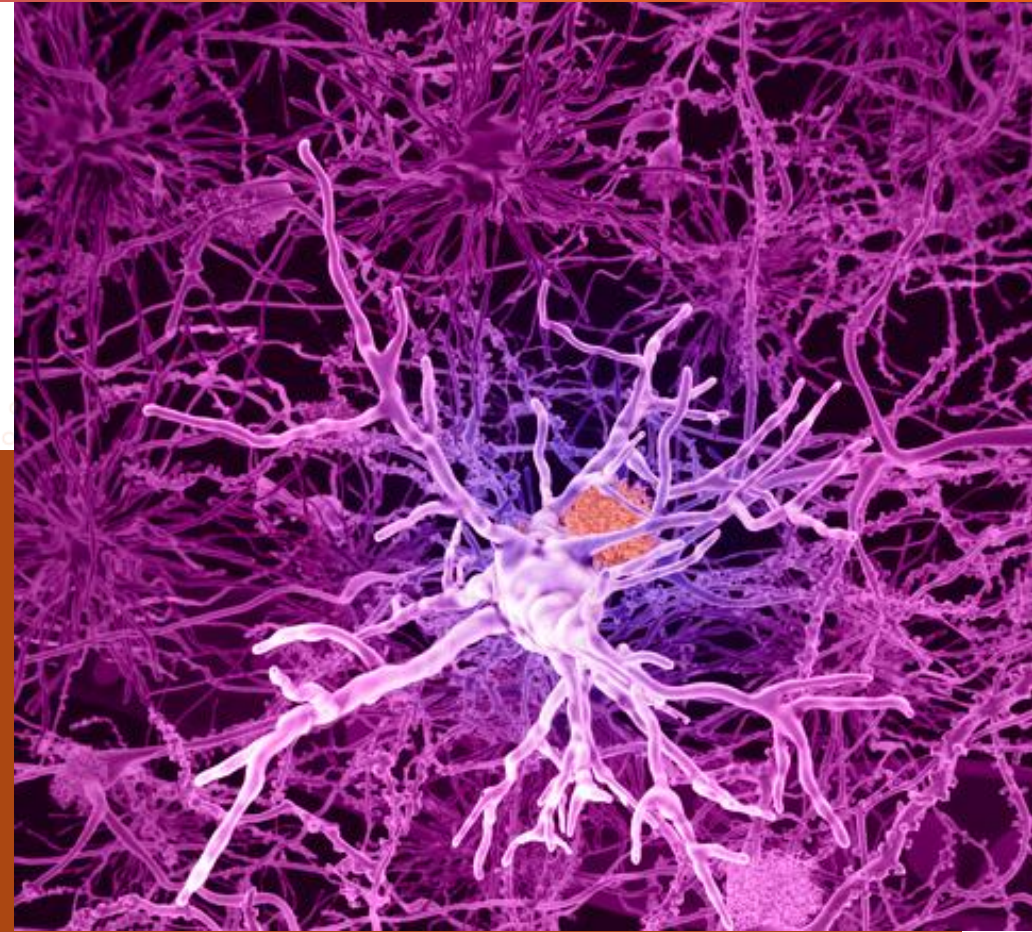
START COG0203 study (NCT05531656) partially funded by \$81M NIA grant R01AG065248

CT1812 is Also Being Investigated in two Additional Indications



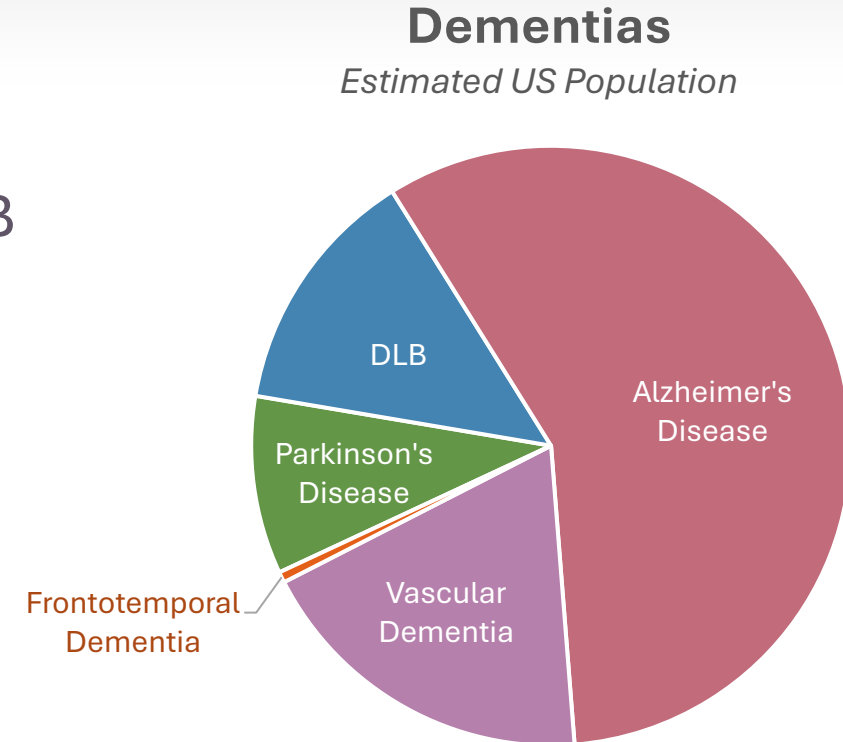
Dementia with Lewy Bodies

*“The most common dementia
you’ve never heard of”*



Lewy Body Dementias are Second only to AD in Prevalence

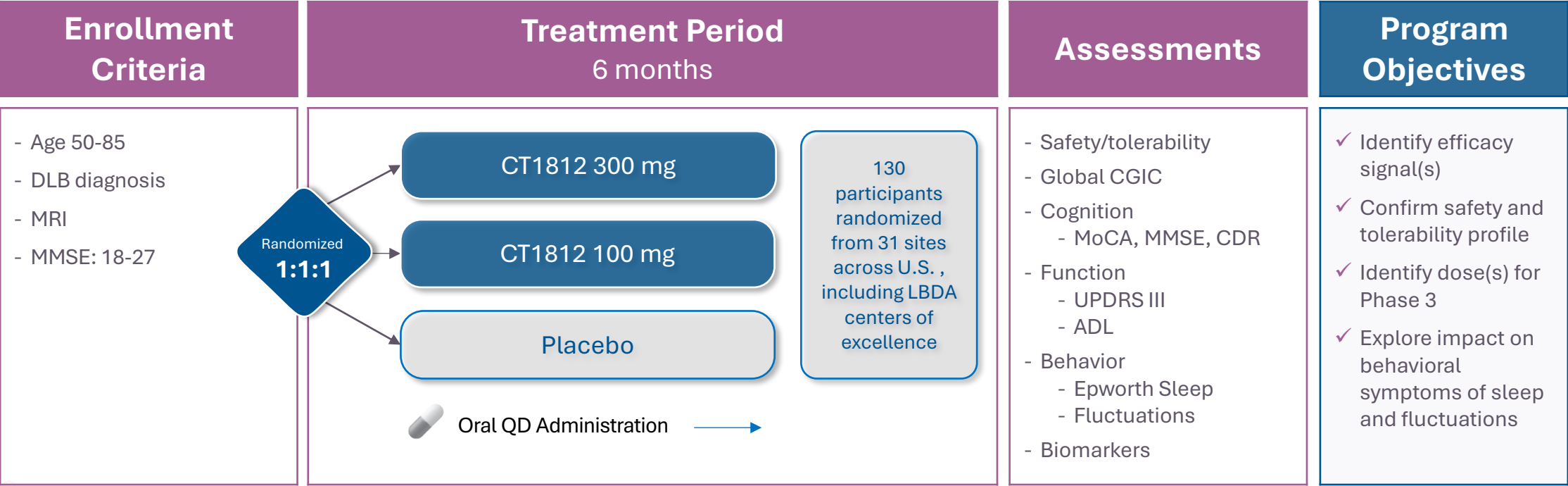
- In the U.S. an estimated 1.4 million people¹ have dementia with Lewy bodies (DLB)
- It is estimated that 50-80% of patients with DLB have A β as well as α -synuclein² pathology
- Core symptoms of DLB include:
 - Progressive cognitive decline
 - Fluctuating cognition with variations in attention
 - Impaired visuospatial perception
 - Recurrent visual hallucinations
 - REM sleep disorder



SHIMMER Study in Dementia with Lewy Bodies

Topline YE 2024

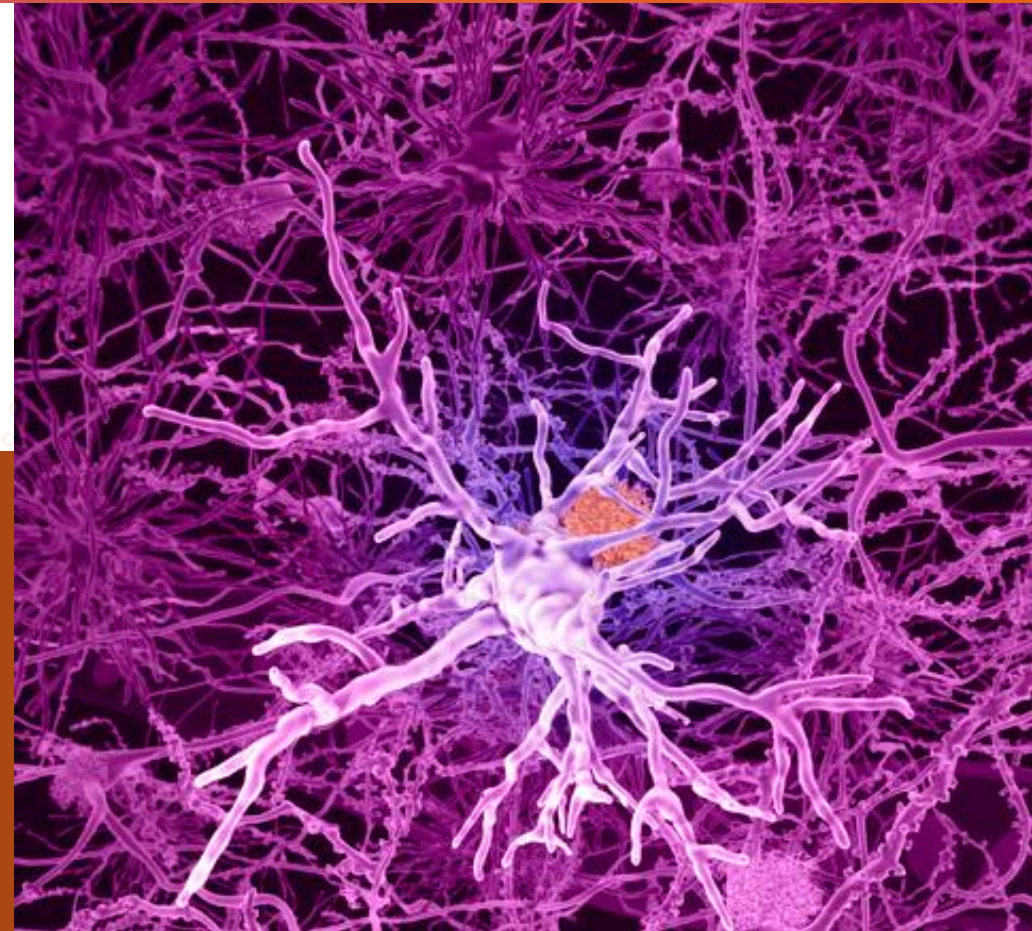
Conducted in collaboration with experts at LBDA and University of Miami



SHIMMER COG1201 study (NCT05225415) partially funded by \$30M NIA grant R01AG071643

Geographic Atrophy

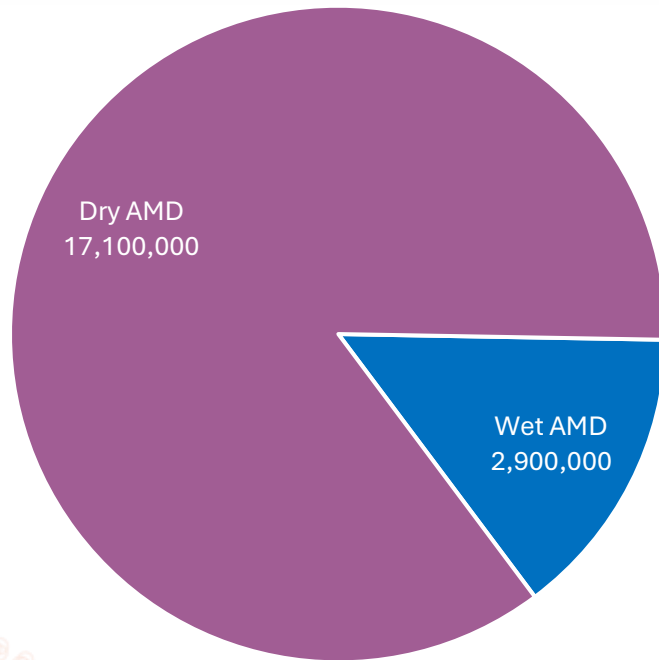
Damage to the macula resulting from advanced dry age-related macular degeneration (dry AMD)



An Urgent Need Exists for New GA Treatments

Geographic Atrophy causes ~20% of cases of legal blindness in North America¹

US AMD population: Appx 20M ¹



Trinity, LLC forecast; data inhouse

- Dry AMD: last stage of progression is GA
- Two drugs approved for GA in US: Syfovre (pegcetacoplan) and Izervay (avacincaptad pegol)
 - Slow GA lesion growth by 14% - 20%
 - Require monthly IVT
 - Neither approved in EU
- Downregulate complement to interrupt cascade
 - Reduce inflammation
 - Prevent RPE cell damage

Rationale for CT1812 in Dry AMD/Geographic Atrophy

Opportunity: crosses blood-retinal barrier to reach retina without an injection

What is dAMD/GA

Geographic atrophy (GA), the most advanced form of dry AMD, affects ~5M people WW and is associated with significant vision loss

Unmet Need

Complement inhibitors require injections into eye(s)

Pathophysiology

Death of retinal pigment epithelium (RPE) cells drives loss of photoreceptors (neurons required for sight)

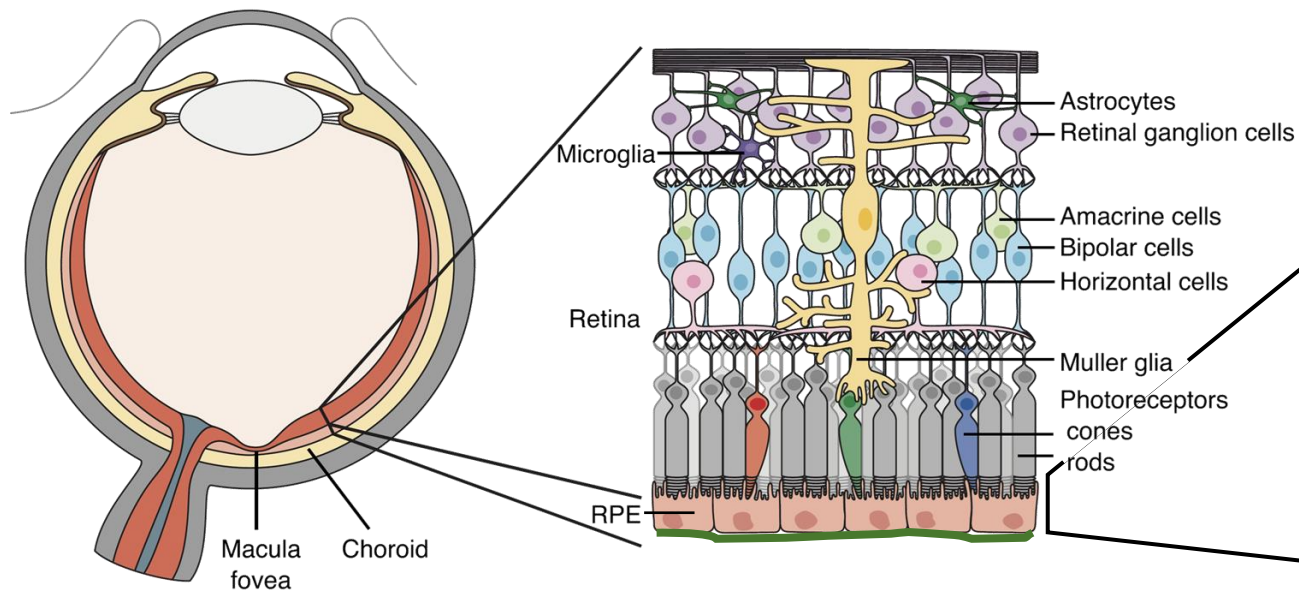
In vitro evidence supports CT1812 rescue of RPE cells

MAGNIFY

Proof-of-concept Phase 2 study in adults with GA



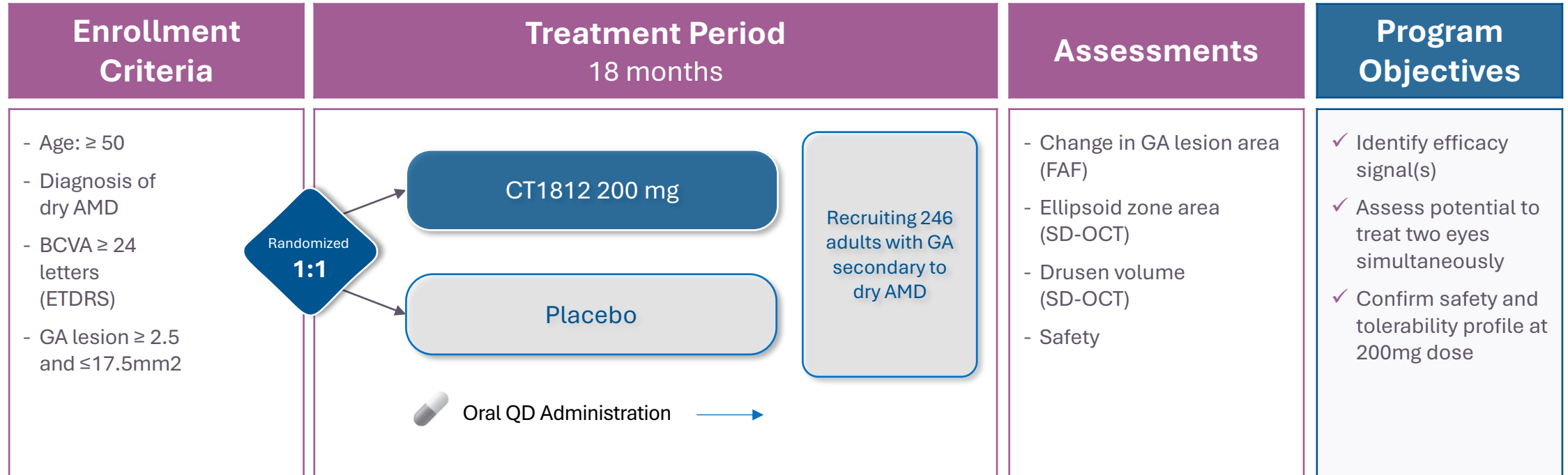
CT1812 Protects RPE Cells and the Photoreceptors they Support



- Photoreceptors – specialized neurons necessary for sight – require support from retinal pigment epithelial (RPE) cells that are damaged in dry AMD
- CT1812 has been shown to rescue RPE cells *in vitro*
- CT1812's potential to preserve vision through this mechanism is being tested in Phase 2

MAGNIFY Trial in dAMD/GA

Potential first oral drug for geographic atrophy



Clinical Information Generated to Date Supports 3 Indications

Ongoing Trials Expand CT1812 into New Indications

COG0203 - START

Early-to-mild Alzheimer's disease
Actively recruiting

COG1201 - SHIMMER

Mild-to-moderate DLB
Topline data YE2024

COG2201 - MAGNIFY

GA secondary to dry AMD
Actively recruiting



SHINE

- 153 participants
- Consistent slowing cognitive decline (ADAS-Cog 11 and 13, MMSE, Cog Composite)
- Trends in functional benefit



SEQUEL¹

- 16 participants
- Normalization of brain waves across EEG measures
- Significant improvement in AEC-c and relative theta in central region



SPARC²

- 23 participants
- Preservation of brain atrophy via volumetric MRI
- No change in SV2A treated or pbo



SNAP³

- 3 participants
- Rapid displacement of A β oligomers via CSF
- Replication of preclinical findings via MEI

Summary: the Promise of CT1812

- **First-in-class** A β oligomer antagonism via sigma-2 receptor
- **Consistent efficacy** in Alzheimer's disease studies
 - One of few compounds with efficacy in *moderate* Alzheimer's disease
 - ARIA unlikely to occur based on MoA
- **Well tolerated safety** profile
 - Modest side effect profile for use in aging population
- **Potential first-to-market for DLB**
- **Oral** administration
 - No need for IV therapy, a key limitation of immunotherapeutics
 - No surveillance imaging required
 - Greater convenience and access

Current Financial Position

As of quarter ended September 30, 2024

Cash and cash equivalents \$22.0 M

Expected cash runway into 2Q 2025

Grant funding for CT1812 studies

Preclinical through Phase 2 ~\$171 M

Approximate funding used (\$117.4 M)

Remaining grant funding \$53.6M





Thank You

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