

Targeting Amyloid Beta Oligomers:

A Disruptive Approach to the Treatment of CNS Disorders

September 2024

Forward-looking Statements

FORWARD-LOOKING STATEMENTS

This presentation contains forward-looking statements within the meaning of The Private Securities Litigation Reform Act of 1995. All statements contained in this presentation, other than statements within the meaning of The Private Securities Litigation Reform Act of 1995. All statements within the meaning of The Private Securities Litigation Reform Act of 1995. All statements within the meaning of The Private Securities Litigation Reform Act of 1995. All statements within the meaning of The Private Securities Litigation Reform Act of 1995. All statements within the meaning of The Private Securities Litigation Reform Act of 1995. All statements within the meaning of The Private Securities Litigation Reform Act of 1995. All statements within the meaning of The Private Securities Litigation Reform Act of 1995. All statements within the meaning of The Private Securities Litigation Reform Act of 1995. 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All statements within the Meaning Reform Act of 1995. All statements within the 1995. All statements within the 1995. All statements within the 1995. All st facts or current conditions, including but not limited to, product candidates, including CT1812, and any expected or implied benefits or results, including that initial clinical results observed with respect to CT1812 will be replicated in later trials, and our clinical development plans, including statements regarding our clinical studies of CT1812 in animal models and any analyses of the results therefrom, and our expected cash runway, are forward-looking statements. These statements, including statements related to the timing and expected results of our clinical trials, involve known and unknown risks, uncertainties and other important factors that may cause our actual results, performance, or achievements to be materially different from any future results, performance, or achievements expressed or implied by the forward-looking statements. In some cases, you can identify forward-looking statements by terms such as "may," "might," "will," "should," "expect," "plan," "aim," "seek." "anticipate," "could," "intend," "farget," "project," "contemplate," "believe," "estimate," "predict," "forecast," "potential" or "continue" or the negative of these terms or other similar expressions. We have based these forward-looking statements largely on our current expectations and projections about future events and financial trends that we believe may affect our business, financial condition, and results of operations. These forward-looking statements speak only as of the date of this presentation and are subject to a number of risks, uncertainties and assumptions, some of which cannot be predicted or quantified and some of which are beyond our control. Factors that may cause actual results to differ materially from current expectations include, but are not limited to; our ability to successfully advance our current and future product candidates through development activities, preclinical studies and clinical trials and costs related thereto; uncertainties inherent in the results of preliminary data, preclinical studies and earlier-stage clinical trials being predictive of the results of early or later-stage clinical trials; the timing, scope and likelihood of regulatory filings and approvals, including regulatory approval of our product candidates; competition, our ability to secure new (and retain existing) grant funding, our ability to grow and manage growth, maintain relationships with suppliers and retain our management and key employees; changes in applicable laws or regulations; the possibility that the we may be adversely affected by other economic, business or competitive factors, including ongoing economic uncertainty; our estimates of expenses and profitability; the evolution of the markets in which we compete; our ability to implement our strategic initiatives and continue to innovate our existing products; our ability to defend our intellectual property; impacts of ongoing global and regional conflicts; the impact of the COVID-19 pandemic on our business, supply chain and labor force; and the risks and uncertainties described more fully in the "Risk Factors" section of our annual and quarterly reports filed with the Securities & Exchange Commission that are available on www.sec.gov. 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Cognition Snapshot

Successful Phase 2 AD Trial read out plus signal-finding studies ongoing in other indications

Alzheimer's Disease

- Pursuing 2 populations: mild-tomoderate; 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 ETA YE
 - Will determine CT1812's impact on constellation of symptoms
- No approved d-m treatments
- CT1812 protects against oligomers of both amyloid beta (Aβ) and alpha-synuclein (α-syn)

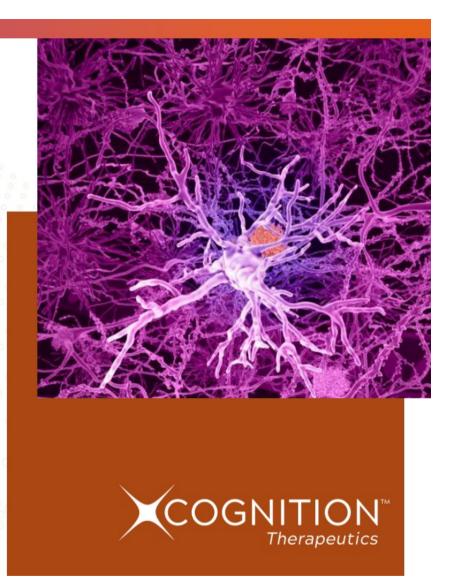
Geographic Atrophy Secondary to dry AMD

- 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



Alzheimer's Disease

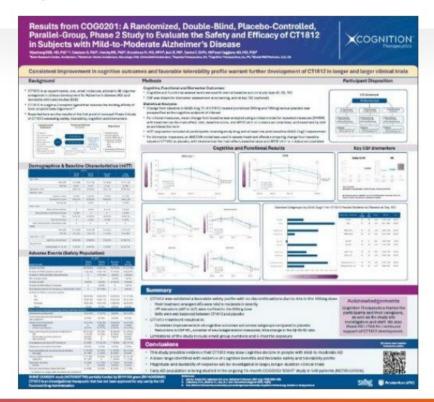
SHINE Study in Mild-to-Moderate Alzheimer's disease



Breaking News – SHINE Phase 2 Alzheimer's Disease Study

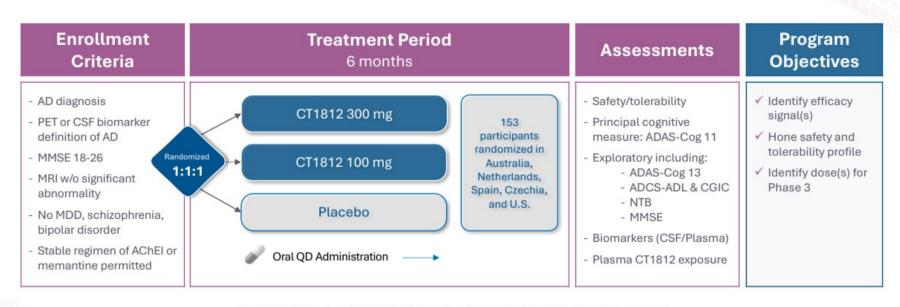
CT1812 is Among Few Oral Candidates Showing Cognitive Impact in Moderate Patients

- Pooled (100 and 300mg arms) CT1812 treatment slowed cognitive decline by 39% on ADAS-Cog 11 vs placebo
- All key cognitive and functional outcome measures trending in favor of CT1812
- Efficacious dose with good safety profile
- Well-designed and executed study
- Supports advancing clinical development





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



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





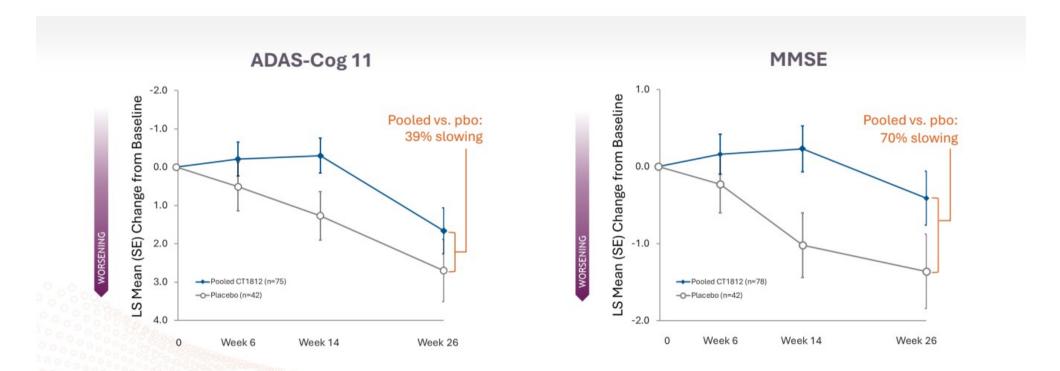
SHINE Patient Population

- 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



SHINE Cognitive Endpoints: ADAS-Cog 11 and MMSE

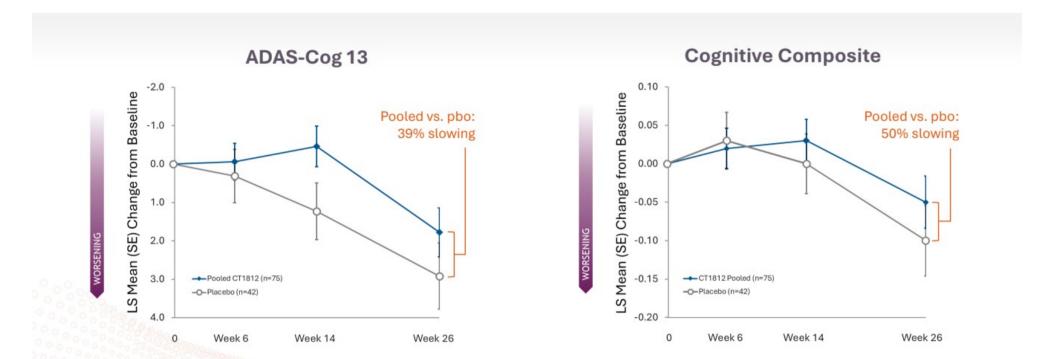
Magnitude of ADAS-Cog 11 decline at 6 months similar to approved MAbs





SHINE Cognitive Endpoints: ADAS-Cog 13, Cognitive Composite

Consistent results across multiple cognitive endpoints





Summary of SHINE Safety and Tolerability findings

- CT1812 demonstrated a favorable safety and tolerability profile
- Most TEAEs were mild or moderate in severity
- Similar percentages of adverse events in treated (76.5%) and placebo (78%) groups
- No discontinuations due to AEs in the 100mg dose group
- Most discontinuations were in 300mg dose group and all the reportable liver enzyme elevations were in 300mg dose group

Adverse Events			
CT1812	Placebo		
76.5%	78%		

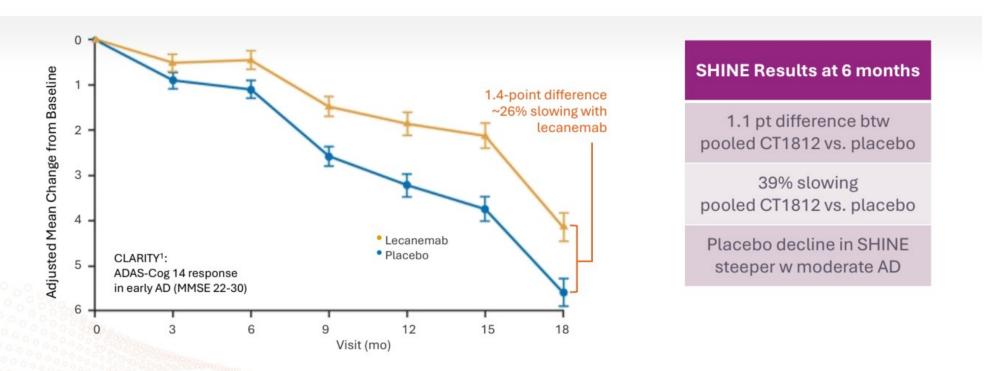
Serious AEs				
CT1812	Placebo			
4.9%	10%			

Deaths			
CT1812	Placebo		
0	1 (cancer)		



SHINE Response at 6 months Comparable to Approved MAbs

Once-daily pill • no ARIA • 39% slowing at 6 months vs Leqembi's 26% at 18 months





SHINE: Summary Exploratory Outcomes - Percent Slowing Day 182

Effect as large or larger than approved MAbs

	ADAS-Cog 11	ADAS-Cog 13	MMSE	Cognitive Composite
CT1812 Pooled ¹	39%	39%	70%	50%
Lecanemab ² (at 18mo)		26% (ADAS-Cog 14)		24% (ADCOMS)
Donanemab³ (at 18 mo)		20% (ADAS-Cog 13)	16% (MMSE)	22% (iADRS)

Note: data shown for benchmarking only; no head-to-head studies have been conducted



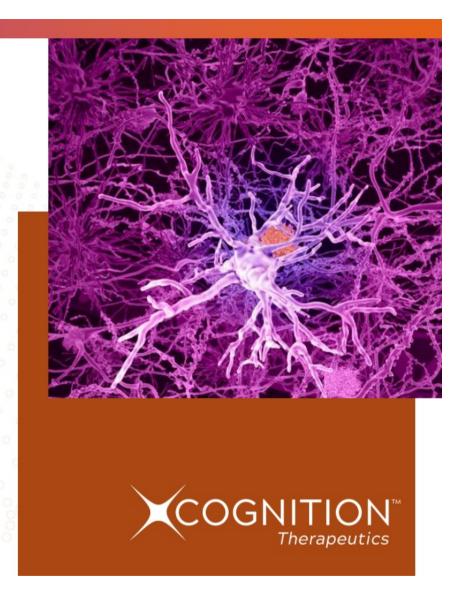
^{1.} Percentages reflect mean changes from baseline compared to placebo

^{2.} van Dyck C et al. Lecanemab in Early Alzheimer's Disease (2023) NEJM 388:9-21

^{3.} Sims JR et al. Donanemab in Early Symptomatic Alzheimer Disease (2023) JAMA. 2023;330(6):512-527

SHINE: Corroborated by Experts

Results of a Commissioned Survey of 51 neurologists



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

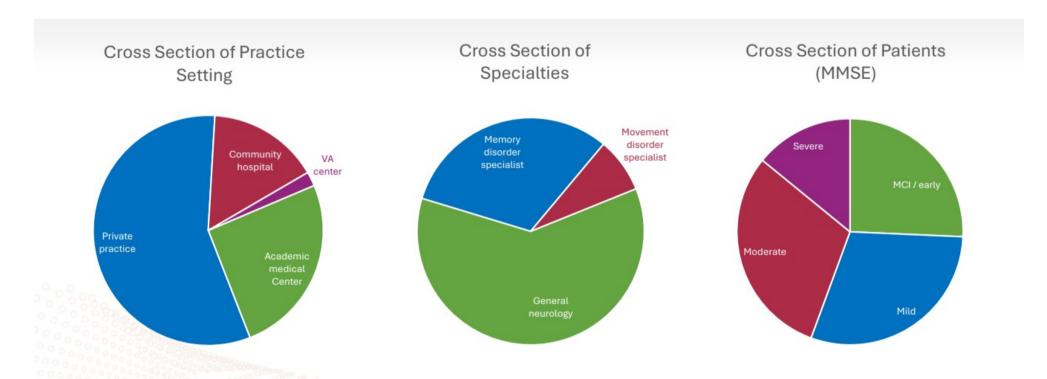
Market Opportunity:

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

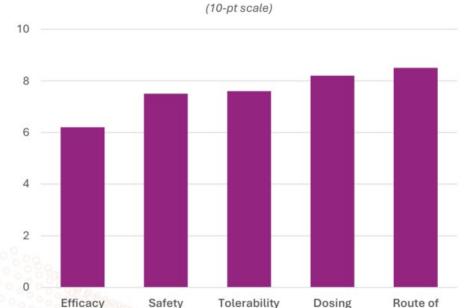




CT1812's Safety and Oral Delivery Appealed to Neurologists

Administration

Most Appealing Features of CT1812's Product Profile



"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"

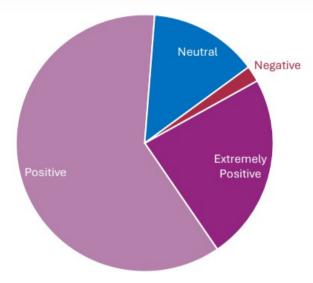


Neurologists Enthusiastic About SHINE Results

Oral, once-daily treatment with cognitive benefit and no increased ARIA risk

- The absence of symptomatic ARIA was seen as important (rated 8.4 out of 10)
- 86.3% of respondents felt CT1812's cognitive benefit (ADAS-Cog, MMSE, Cog Composite) was at least as good if not better than lecanemab
- 78.5% felt CT1812's functional benefit (ADCS-ADL and -CGIC) was at least as good if not better than lecanemab
- Efficacy rated 6.2 out of 10 possibly due to limited trial duration and number of participants in SHINE

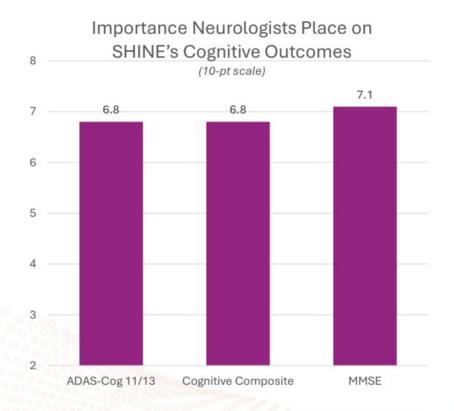
Overall Characterization of SHINE Results



Appx 84% felt SHINE was positive or extremely positive



Efficacy Findings in Particular were Viewed as Significant



- Importance on cognitive outcomes echoed in open discussion of the most attractive aspects of the SHINE results
 - "Consistent improvement in all clinical outcomes"
 - "Efficacy as good as, or better, than currently promoted anti-amyloid antibodies"
 - "Effective on slowing cognitive decline as an oral medication"
 - "Good improvement in mental status measures over 26 wks"



Next Steps: Larger Studies with Longer Duration

Neurologists surveyed see a path forward for CT1812

In discussion of next steps for CT1812, neurologists expressed interest in:

- Treatment effect in combination with and/or head-to-head against anti amyloid drugs
- Treatment effect in combination with and/or head-to-head against AChEi + Namenda
- · Larger placebo-controlled studies to see longer-term safety and clinical impact
- Potential in more patients with greater disease severity
- Mechanistic explanation for early effect



If Approved, Neurologists Would Consider CT1812

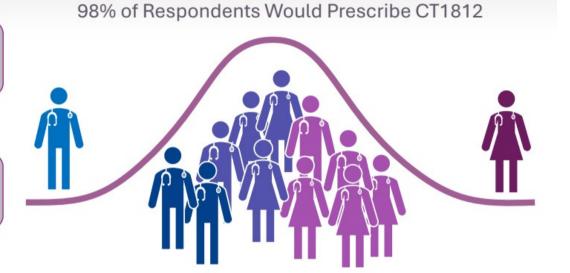
Monotherapy and combination uses appealed to clinicians

 What percentage of your mild patients would you consider candidates for CT1812?

62.8%

 What percent of your moderate patients would you consider candidates for CT1812?

58.4%



Prefers AChEi/Mem Anything sparingly

CT1812 in up to 25%

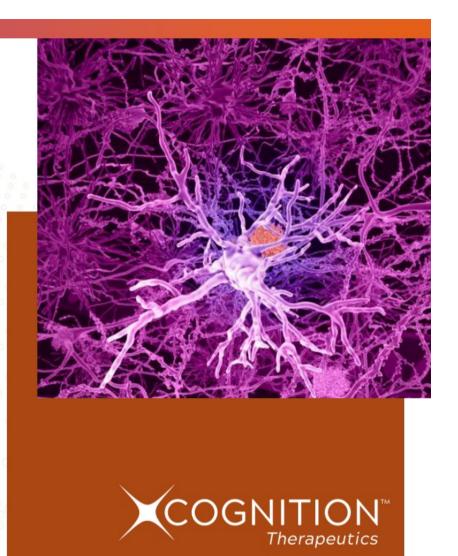
CT1812 in over 50%

Would prefer CT1812



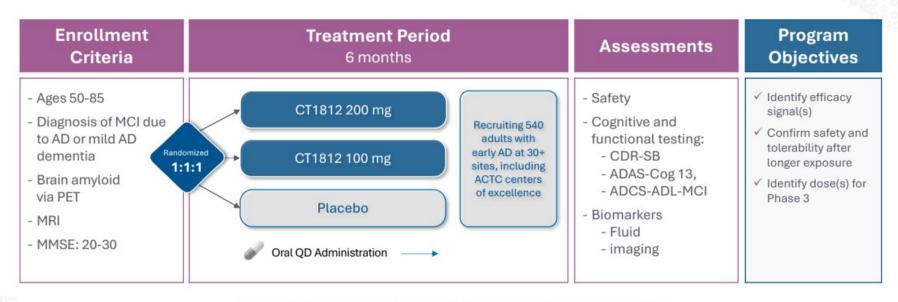
Alzheimer's Disease

START Study in early Alzheimer's disease



START - A 540-Person Study in 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





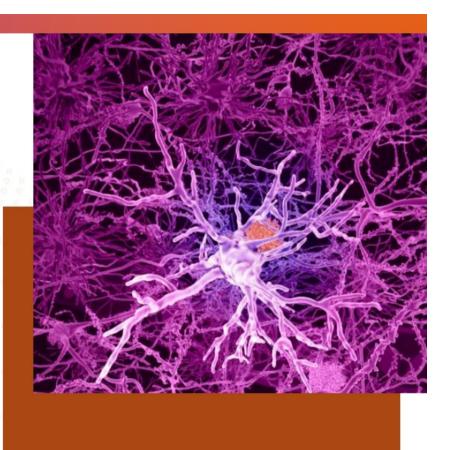
CT1812 is Also Being Investigated in two Additional Indications





Dementia with Lewy Bodies

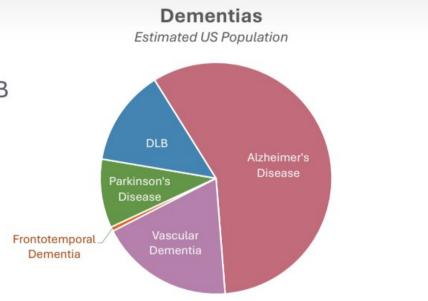
"The most common dementia you've never heard of"





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 Aβ 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





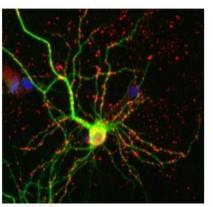


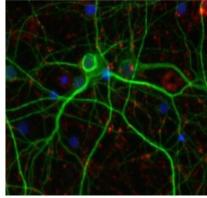
Evidence Supports CT1812 Potential in DLB

Protection of neurons from α-synuclein oligomers

 α -synuclein oligomers

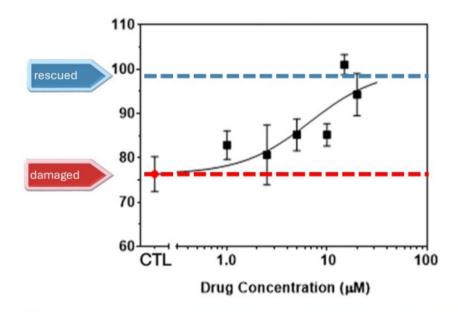
α-synuclein oligomers + CT1812





lpha-Synuclein oligomers in red

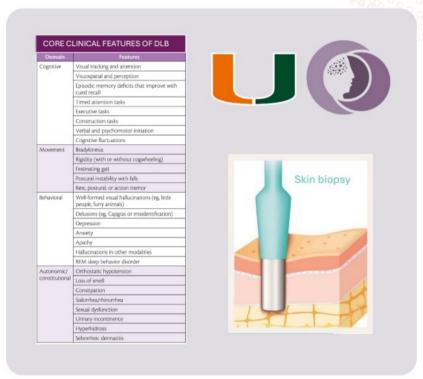
Neurons rescued from α-synuclein oligomer-induced damage





SHIMMER Study Brings Together Experts and New Tools to Explore Efficacy of CT1812

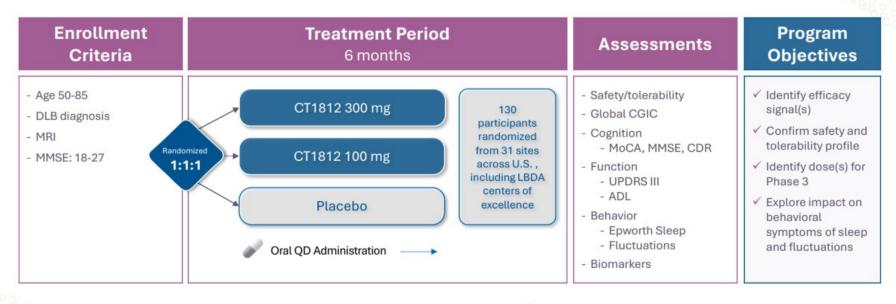
- Until recently, DLB could only be confirmed upon autopsy, making clinical research difficult
- SHIMMER was designed to have the best chance available to detect signals of improvement
 - Cognition partnered with experts at U Miami Miller School of Medicine and LBDA
 - Using validated clinical¹ and diagnostic² tools



SHIMMER Study in Dementia with Lewy Bodies

Topline YE 2024

Conducted in collaboration with experts at LBDA and University of Miami



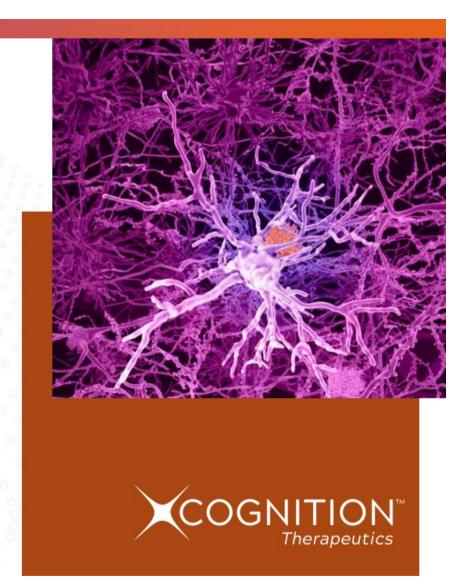
SHIMMER COG1201 study (NCT05225415) partially funded by \$30M NIA grant R01AG071643





Geographic Atrophy

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



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, effects ~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





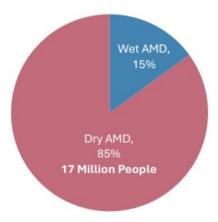


Dry AMD and Geographic Atrophy

Leading cause of severe vision loss in people over 50 (AAO)

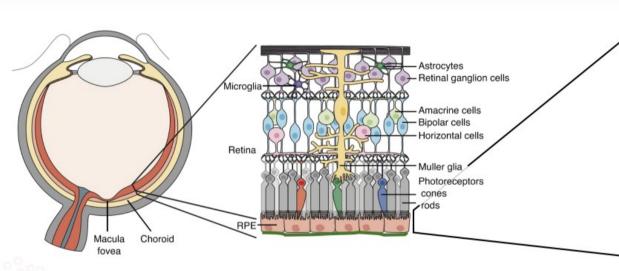
- AMD is leading cause of blindness over 50 yr¹
- Dry AMD is a progressive condition accounting ~90% of all AMD cases
 - Advanced dry AMD, or GA, affects approximately two million people in the U.S.
- Only two drugs are approved for dry AMD²
 - Until 2023, dietary supplements were SoC
 - For reference, wet AMD market is \$7 billion worldwide

20 million people in North America have AMD³





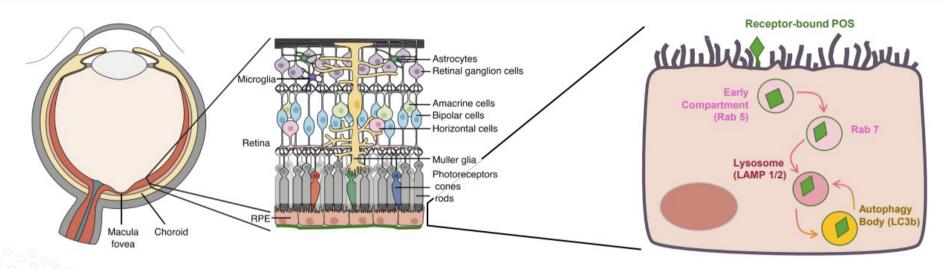
CT1812 Protects RPE Cells and the Photoreceptors they Support



- 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

Cellular and Molecular Pathogenesis of Dry AMD (dAMD)

CT1812 restores trafficking and degradation of POS

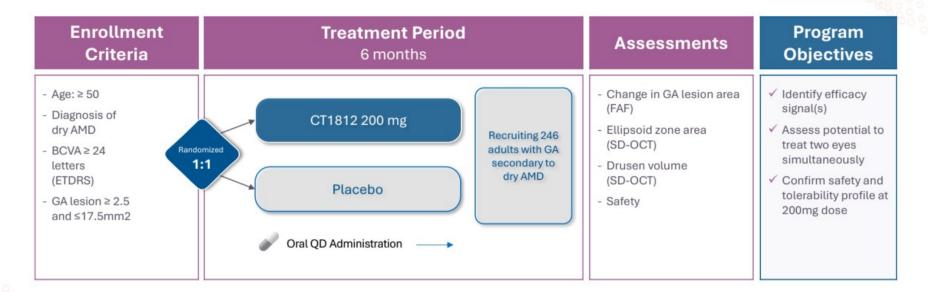


In dry AMD, RPE cells are unable to successfully recycle photoreceptor outer segments () through the autophagy process



MAGNIFY Trial in dAMD/GA

Potential first oral drug for geographic atrophy







Completed Studies Support Potential in Mild-to-Moderate AD

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 AB oligomers via CSF
- Replication of preclinical findings via MEI



The Promise of CT1812

- First-in-class Aβ oligomer antagonism via sigma-2 receptor
- · Consistent efficacy in Alzheimer's disease studies
 - ARIA unlikely to occur based on MoA
- · Potential first-to-market for DLB
- Potential first oral for dAMD/GA
- · Well tolerated safety profile anticipated
- · 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 June 30, 2024

Cash and cash equivalents \$28.5 M

Expected cash runway into 2Q 2025

Grant funding for CT1812 studies

Preclinical through Phase 2 ~\$171 M

Approximate funding used (\$113.7 M)

Remaining grant funding \$57.3M





