

Results from the Proof-of-Concept Phase 2 'SHINE' Study of CT1812 in Mild-to-Moderate Alzheimer's Disease

July 29, 2024

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FORWARD-LOOKING STATEMENTS

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Alzheimer's Disease and CGTX



THE CHALLENGE

Despite 35 years of research based on the <u>Amyloid Cascade Hypothesis, there are only</u> **TWO** approved therapies and major unmet needs persist for the rapidly growing population of people with Alzheimer's disease



THE OPPORTUNITY

Strong scientific evidence supports the <u>A</u>myloid <u>O</u>ligomer Hypothesis, ie, that oligomers—not plaques—are the **MOST NEUROTOXIC** form of amyloid beta that underlie cognitive decline



CGTX SOLUTION

Lead asset is CT1812: An investigational oral small molecule that potently antagonizes amyloid oligomers via a unique mechanism of action

- ✓ Completed: Phase 2 POC SHINE trial in Mild-to-Moderate Alzheimer's disease population
- Phase 2 POC dementia with Lewy body trial to read out 2H2024
- Currently running early Alzheimer's disease trial START (N=540)
- Y Phase 2 POC trial in geographic atrophy secondary to dry AMD ongoing



Agenda for SHINE Study Presentation

- Development History of CT1812
- Results of Cognitive and Functional Measures
- Safety and Tolerability
- Exploratory Biomarker Findings
- Commentary Dr. Martin Sadowski
- Questions and Answers



Today's Speakers

Study investigator and industry thought leader



Everard (Jort) Vijverberg, MD, PhD

Staff Neurologist and CNS Trial Specialist, Amsterdam Alzheimer Center at Amsterdam Neuroscience, the Research Institute for Neuroscience of Amsterdam UMC



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Professor of Neurology, Psychiatry, Biochemistry and Molecular Pharmacology at NYU Director of the Alzheimer Drug Trial Program



CT1812 Background

Brief history of CT1812 development

- Candidate identified by Cognition Therapeutics team via a screen established to identify molecules that protect neurons from the toxicity of Aβ oligomers
- Long history of Cognition research and publications has demonstrated that CT1812 can reduce the binding affinity of Aβ oligomers
- All intellectual property is wholly owned by Cognition Therapeutics
- Multiple trials completed
- COG0201 SHINE is the first phase 2 proof-of-concept study of CT1812 in mild-tomoderate Alzheimer's disease



Summary of COG0201 SHINE Results

Compelling evidence to advance into next phase of study

- COG0201 SHINE: FPI October 2018, LPO May 2024
- Favorable treatment differences versus placebo with both 100mg and 300mg dose groups on all key cognitive outcome measures
- CT1812 treatment resulted in slowing progression across outcome measures
 - The magnitude of effect is comparable to approved MAbs
 - Overall change in ADAS-Cog 11 was about 1 point at six months
- Adverse events were well balanced between treatment groups
- All liver enzyme elevations occurred at the higher 300mg dose
- These results support dose selection for future trials
 - 100mg dose had comparable efficacy to 300mg dose with no discontinuations due to AEs
 No new safety signal



Phase 2 Safety and Efficacy Study in Adults with Mild-to-Moderate Alzheimer's Disease



* Cut-offs from Clinical Neurochemistry Lab at Sahlgrenska University Hospital in Gothenburg, Sweden or study protocol

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COG0201 SHINE Participant Disposition

372 Screened



* Varies by assay according to biospecimen availability



COG0201 SHINE Baseline Characteristics

	CT1812				
	100mg (N=51)	300 mg (N=50)	Placebo (N=49)	Total (N=150)	
Age - years					
Mean (SD)	72.4 (6.96)	74.1 (7.20)	71.6 (8.06)	72.7 (7.43)	
Min, Max	53, 81	57, 85	51,85	51,85	
Female sex - n (%)	34 (66.7%)	28 (56.0%)	28 (57.1%)	90 (60.0%)	
Ethnicity - n (%)					
Hispanic or Latino	4 (7.8%)	6 (12.0%)	1 (2.0%)	11 (7.3%)	
Not Hispanic or Latino	47(92.2%)	43 (86.0%)	48 (98.0%)	138 (92.0%)	
Not reported	0	1 (2.0%)	0	1 (0.7%)	
Race – n (%)					
Black or African-American	0	1 (2.0%)	2 (4.1%)	3 (2.0%)	
Native Hawaiian or Other Pacific Islander	1 (2.0%)	0	0	1 (0.7%)	
White	50 (98.0%)	48 (96.0%)	46 (93.9%)	144 (96.0%)	
More than One Race	0	1 (2.0%)	1 (2.0%)	2 (1.3%)	
Asian, American Indian, Alaska Native, Other	0	0	0	0	
MMSE					
Mean (SD)	21.5 (3.38)	20.8 (3.48)	21.8 (3.03)	21.37 (3.31)	
Min, Max	17.0, 29.0	13.0, 27.0	17.0, 29.0	13.0, 29.0	
Background med (AChEl/memantine) - n (%)					
Yes	33 (64.71%)	32 (64.0%)	29 (59.18%)	94 (62.67%)	
No	18 (35.29%)	18 (36.0%)	20 (40.82%)	56 (37.33%)	
ApoE status – n (%)					
ApoE4 Pos. (homo/hetero)	30 (58.8%)	30 (60.0%)	31 (63.3%)	91 (60.7%)	
Education level					
Grades through 11 – no. (%)	7 (13.7%)	8 (16.0%)	7 (14.3%)	22 (14.7%)	



Cognitive Endpoints: ADAS-Cog 11 and MMSE

39% slowing of ADAS-Cog 11 decline at six months vs baseline compared to placebo, magnitude of effect similar to approved MAbs



a) Pooled 100mg and 300mg group vs placebo p=0.3009. All other p values are nominal



b) Pooled 100mg and 300mg group vs placebo p=0.1111.

Cognitive Endpoints: ADAS-Cog 13, Cognitive Composite

Consistent results across multiple cognitive endpoints





Additional Cognitive and Functional Measures

Consistent though not significant results; likely requires longer-term trial





Summary of Exploratory Outcomes

Trending positive across most cognitive and functional measures

	Time Frame	ADAS- Cog 11	ADAS- Cog 13	ADCS- CGIC	ADCS-ADL	Cognitive Composite	MMSE	
CT1812 100mg	Day 98	∆ -1.79 p = 0.0430	∆ -2.16 p =0.0376	Δ 0.11 p = 0.6288	Δ 0.05 p = 0.9644	Δ 0.05 p = 0.3920	∆ 0.97 p = 0.0972	
	Day 182	Δ -0.99 p = 0.3835	Δ -1.22 p = 0.3144	Δ -0.27 p = 0.2446	Δ 0.73 p = 0.5751	Δ 0.04 p = 0.5302	Δ 0.64 p = 0.3407	Green is direction
CT1812 300mg	Day 98	Δ -1.35 p = 0.1410	Δ -1.23 p = 0.2505	Δ -0.02 p = 0.9440	Δ -0.54 p = 0.6585	Δ 0.01 p = 0.8635	∆ 1.54 p = 0.0118	favorab
	Day 182	Δ-1.10 p = 0.3641	Δ -1.06 p = 0.4114	Δ -0.20 p = 0.4036	Δ 0.59 p = 0.6679	Δ 0.05 p = 0.4168	∆ 1.26 p = 0.0766	Trendir values •
Pooled 100+300mg	Day 98	∆ -1.57 p = 0.0441	∆ -1.69 p = 0.0634	Δ 0.04 p = 0.8148	Δ -0.25 p = 0.8140	Δ 0.03 p = 0.5565	∆ 1.26 p = 0.0155	0.1 bold
	Day 182	Δ -1.04 p = 0.3009	Δ-1.14 p = 0.2898	Δ -0.24 p = 0.2478	Δ 0.66 p = 0.5682	Δ 0.05 p = 0.4018	Δ 0.95 p = 0.1111	

Deltas reflect the difference in LS means vs. placebo at each timepoint.

Green highlighted cells reflect a favorable difference for CT1812 relative to placebo

Hierarchical testing strategy was pre-specified for ADAS-Cog 11 at Day 182. Order of testing: 1) Pooled 100+300mg vs. pbo, 2) 300mg vs. pbo, 3) 100mg vs. pbo. Because p>0.05 for first test (pooled 100+300mg vs. pbo), formal testing stopped, and all p-values are considered nominal.



Summary Exploratory Outcomes - Percent Slowing Day 182

Effect as large or larger than approved MAbs and some experimental therapeutics

	ADAS-Cog 11	ADAS-Cog 13	MMSE	Cognitive Composite	ADCS-ADL	ADCS-CGIC
CT1812 100mg	36%	42%	47%	40%	28%	32%
CT1812 300mg	40%	36%	93%	60%	23%	24%
CT1812 Pooled	39%	39%	70%	50%	26%	28%

Note: above percentages reflect mean changes from baseline compared to placebo



Safety Findings

COGNITION Therapeutics

COG0201 SHINE TEAE Summary

Adverse events are well balanced and mostly mild or moderate in nature

	CT 1	812		
Subjects with:	100mg (N=51)	300 mg (N=51)	Placebo (N=50)	Total (N=152)
At least one TEAE	36 (70.6%)	42 (82.4%)	39 (78.0%)	117 (77.0%)
At least one TEAE related to treatment	11 (21.6%)	16 (31.4%)	7 (14.0%)	34 (22.4%)
At least on TEAEs leading to discontinuation	0	11 (21.6%)	3 (6.0%)	14 (9.2%)
AEs leading to death	0	0	1 (2.0%)	1 (0.7%)
At least one SAE	2 (3.9%)	3 (5.9%)	5 (10.0%)	10 (6.6%)
At least one SAE related to treatment	0	1 (2.0%)	0	1 (0.7%)
AE of Special Interest: LFT elevations \geq 3xULN (AST or ALT)	0	9 (17.6%)	0	9 (6.0%)
At least one TEAE by maximum severity:				
Any	36 (70.6%)	42 (82.4%)	39 (78.0%)	117 (77.0%)
Mild	19 (37.3%)	22 (43.1%)	22 (44.0%)	63 (41.4%)
Moderate	16 (31.4%)	16 (31.4%)	14 (28.0%)	46 (30.3%)
Severe	1 (2.0%)	4 (7.8%)	3 (6.0%)	8 (5.3%)



Most Frequent AEs Reported by system organ class and preferred term

	CT 1812					
	100mg (N=51)	300 mg (N=51)	Placebo (N=50)	Total (N=152)		
Most common AE by System Organ Class and Preferred Term:						
Gastrointestinal disorders*	11 (21.6%)	7 (13.7%)	4 (8.0%)	22 (14.5%)		
General disorders and administration site conditions*	2 (3.9%)	4 (7.8%)	2 (4.0%)	8 (5.3%)		
Infections and infestations Nasopharyngitis Urinary tract infection 	11 (21.6%) 0 3 (5.9%)	15 (29.4%) 3 (5.9%) 8 (15.7%)	15 (30.0%) 4 (8.0%) 5 (10.0%)	41 (27.0%) 7 (4.6%) 16 (10.5%)		
 Injury, poisoning and procedural complications Fall Post lumbar puncture syndrome Skin laceration 	14 (27.5%) 7 (13.7%) 2 (3.9%) 3 (5.9%)	4 (7.8%) 2 (3.9%) 0 0	13 (26.0%) 4 (8.0%) 4 (8.0%) 0	31 (20.4%) 13 (8.6%) 6 (3.9%) 3 (2.0%)		
Investigations (see above LFT elevations)	5 (9.8%)	17 (33.3%)	7 (14.0%)	29 (19.1%)		
Metabolism and nutrition disorders*	5 (9.8%)	1 (2.0%)	1 (2.0%)	7 (4.6%)		
Musculoskeletal and connective tissue disorders - Arthralgia	8 (15.7%) 4 (7.8%)	4 (7.8%) 1 (2.0%)	6 (12.0%) 4 (8.0%)	18 (11.8%) 9 (5.9%)		
Nervous system disorders - Headache	6 (11.8%) 4 (7.8%)	5 (9.8%) 0	12 (24.0%) 7 (14.0%)	23 (15.1%) 11 (7.2%)		
Psychiatric disorders - Anxiety	2 (3.9%) 0	6 (11.8%) 3 (5.9%)	6 (12.0%) 2 (4.0%)	14 (9.2%) 5 (3.3%)		
Skin and subcutaneous tissue disorders*	5 (9.8%)	3 (5.9%)	4 (8.0%)	12 (7.9%)		



* no individual sub-category within this preferred term exceeded 5%

COG0201 SHINE Safety Conclusions

Results consistent with previous clinical trials

- CT1812 demonstrated favorable safety and tolerability profile
- Most AEs were mild or moderate
- Percentage of subjects experiencing any AE was similar between the pooled CT1812 treatment group (76.5%) and the placebo group (78%)
- Serious AE rates were 4.9% among CT1812 subjects and 10% among placebo subjects
- AEs leading to discontinuation: 0% 100mg group; 6% placebo group; 21.6% 300mg
- 300mg discontinuations primarily elective discontinuations due to elevated liver enzymes
- All cases of elevated liver enzymes greater than or equal to 3X ULN occurred in the 300mg dose group



Exploratory Biomarker Findings



Biomarker Findings

Biomarkers of Synaptic Function

- CSF samples at screening and Day 182 (optional), available in ~50% of mITT population
- Neurofilament Light Chain
 - Significant (p<0.05) reduction relative to placebo for 300mg dose
 - Reduction trend (p<0.10) for 100mg dose
 - Supports potential slowing of neurodegeneration
- No change in Aβ42/40 ratio

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- CSF biomarkers p-Tau Total tau, Synaptotagmin, Neurogranin, SNAP-25, GFAP did not approach significance (Abstract #95767)
- Proteomic (Abstract #95770) and Phosphoproteomic (#95147) findings in convention hall and on CGTX website



Signal of Impact on Neurodegeneration Based on NfL Change

Reductions in CSF NfL relative to placebo consistent with slowing neurodegeneration





What we have Learned from POC SHINE Phase 2 Trial

Novel mechanism in oral, once daily form may be important for treatment options

- CT1812 showed favorable safety and tolerability profile with most AEs mild or moderate
- Results of study inform dosing for next phase of study
 - 100mg dose provided similar efficacy to 300mg dose
 - At 100mg, no discontinuations due to AEs
- Consistent efficacy signal: favorable, non-statistically significant treatment differences v. placebo with both dose groups across all key outcome measures
 - 39% slowing of prespecified clinical outcome measure (ADAS-Cog 11)
 - Comparable to the magnitude of effect of approved MAbs at six months
- Strong signal of impact on neurodegeneration based on NfL change
- No new safety signals



Science & Clinical Medicine Advance Through the Work of Many

CGTX wishes to acknowledge and thank those who made this trial possible

- Participants and their study partners
- Clinical investigators and site staff
- US and International Clinical research partners
- Cognition clinical operations team
- Funding partners including our investors, NIA/NIH and ADDF



Remarks from

Dr. Martin Sadowski, followed by Question and Answers





Thank You

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