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# Corporate Presentation

January 2024



ADVANCING NEW THERAPIES FOR NEURONAL HEALTH

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This presentation and the accompanying oral commentary contain forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995. These forward-looking statements are based on our management's beliefs and assumptions and on information currently available to our management. Forward-looking statements are inherently subject to risks and uncertainties, some of which cannot be predicted or quantified. In some cases, you can identify forward-looking statements by terminology such as "may," "will," "should," "could," "expect," "plan," "anticipate," "believe," "estimate," "predict," "intend," "potential," "would," "continue," "ongoing" or the negative of these terms or other comparable terminology. Forward-looking statements include all statements other than statements of historical fact contained in this presentation, including information concerning our future financial performance, business plans and objectives, timing and success of our planned development activities, our ability to obtain regulatory approval, the potential therapeutic benefits and economic value of our product candidates as a potential treatment for Alzheimer's disease, Parkinson's disease, Parkinson's disease dementia, Dementia with Lewy bodies, and other neurodegenerative diseases, such as amyotrophic lateral sclerosis, the anticipated reporting of data, the potential learnings from the ACT-AD and SHAPE trials and LIFT-AD unblinded interim efficacy and futility analysis and their ability to inform and improve future clinical development plans, potential growth opportunities, competitive position, and industry environment and potential market opportunities, preliminary and unaudited estimates of our cash, cash equivalents, and investments, and the impact of pandemics on our business and operations.

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The ACT-AD trial and the related open-label extension for ACT-AD participants was supported by a grant from the National Institute on Aging of the National Institutes of Health under Award Number R01AG06268. The information presented in this press release is solely the responsibility of Athira and does not necessarily represent the official views of the National Institutes of Health.

This presentation concerns drug candidates that are under clinical investigation and which have not yet been approved for marketing by the U.S. Food and Drug Administration. The drug candidates are currently limited by federal law to investigational use, and no representation is made as to their safety or effectiveness for the purposes for which they are being investigated.

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## OUR MISSION

Harnessing the power of the neurotrophic HGF  
system for the treatment of neurodegenerative  
diseases



# Investment highlights

**Leveraging deep knowledge, broad IP, and HGF biology to develop potential first-in-class and next-generation small molecules to protect and repair neuronal networks**

**Strong balance sheet**  
to support clinical programs  
through key inflection points

**Leadership team** with significant  
CNS product development and  
approval experience

**Neurotrophic HGF system is critical to normal brain function and plays a key role in neurodegenerative diseases**

**Fully enrolled late-stage clinical trial of fosgonimeton in Alzheimer's disease (AD) with data expected in 2H24**

- Factors that support the potential success of the Phase 2/3 LIFT-AD trial
  - Exploratory ACT-AD trial showed improvement across key AD indicators and informed LIFT-AD design
  - Independent unblinded interim analysis of LIFT-AD trial cleared stringent go/no go criteria; trial well powered to meet primary endpoint based on anticipated effect size
  - Ongoing open label extension trial shows high participation rate and long duration of investigational treatment
  - Exploratory SHAPE trial\* showed potential improvements in cognition in a different patient population treated with the same dose as being tested in the LIFT-AD trial
  - Well-tolerated with a favorable safety profile
- Targeting the mild-to-moderate patient population representing an enormous opportunity – likely >3M in US alone

**Robust pipeline of proprietary small molecules targeting HGF biology**

- Restoring the impaired HGF system in disease states has the potential to treat Alzheimer's, Parkinson's, ALS, neuropathic pain, and other neurological diseases

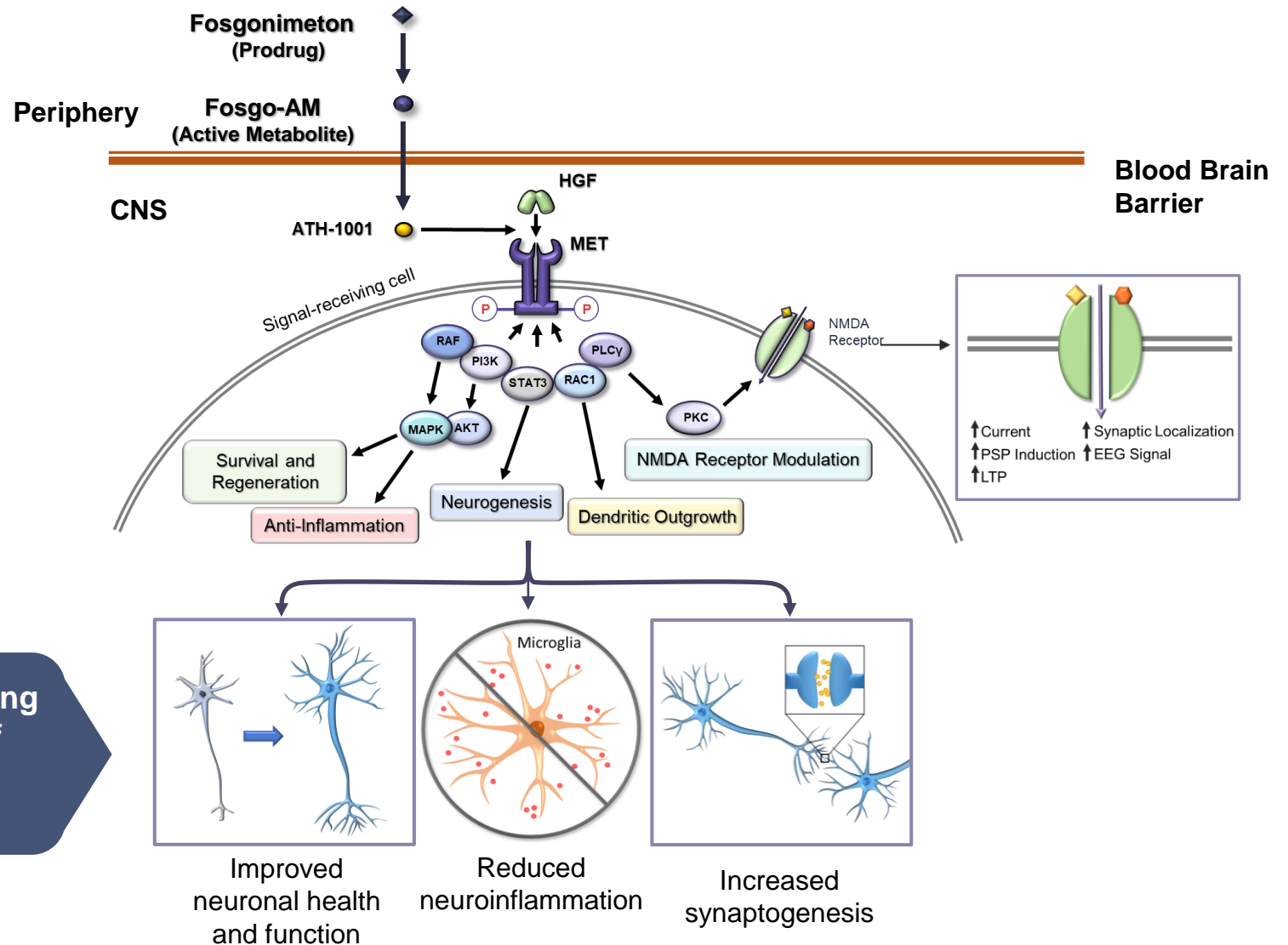
# HGF is a critical neuroprotective system

THE ROLE OF HGF IN THE NERVOUS SYSTEM HAS BEEN EXPLORED THROUGH 30 YEARS OF RESEARCH\*

HGF/MET signaling is a multimodal signaling pathway

- Activation of MET leads to activation of multiple kinase signaling cascades
- These signaling events influence neuron health, morphology, inflammatory response, and function

Fosgonimeton-enhanced HGF/MET signaling has the potential to lead to promotion of multiple beneficial cell behaviors by activating a range of pathways



# HGF system impacts multifactorial complex pathologies that lead to neurodegeneration

Neurotrophic HGF System

## CAUSES OF NEURODEGENERATIVE DISEASES

Inflammation

Protein Pathology

Oxidative Stress

Excitotoxicity

Synaptic Dysfunction

## HALLMARKS OF NEURODEGENERATION

Neuronal damage

Loss of network connectivity

Loss of function

Disease progression

# Positive modulators of the HGF system could be therapeutic

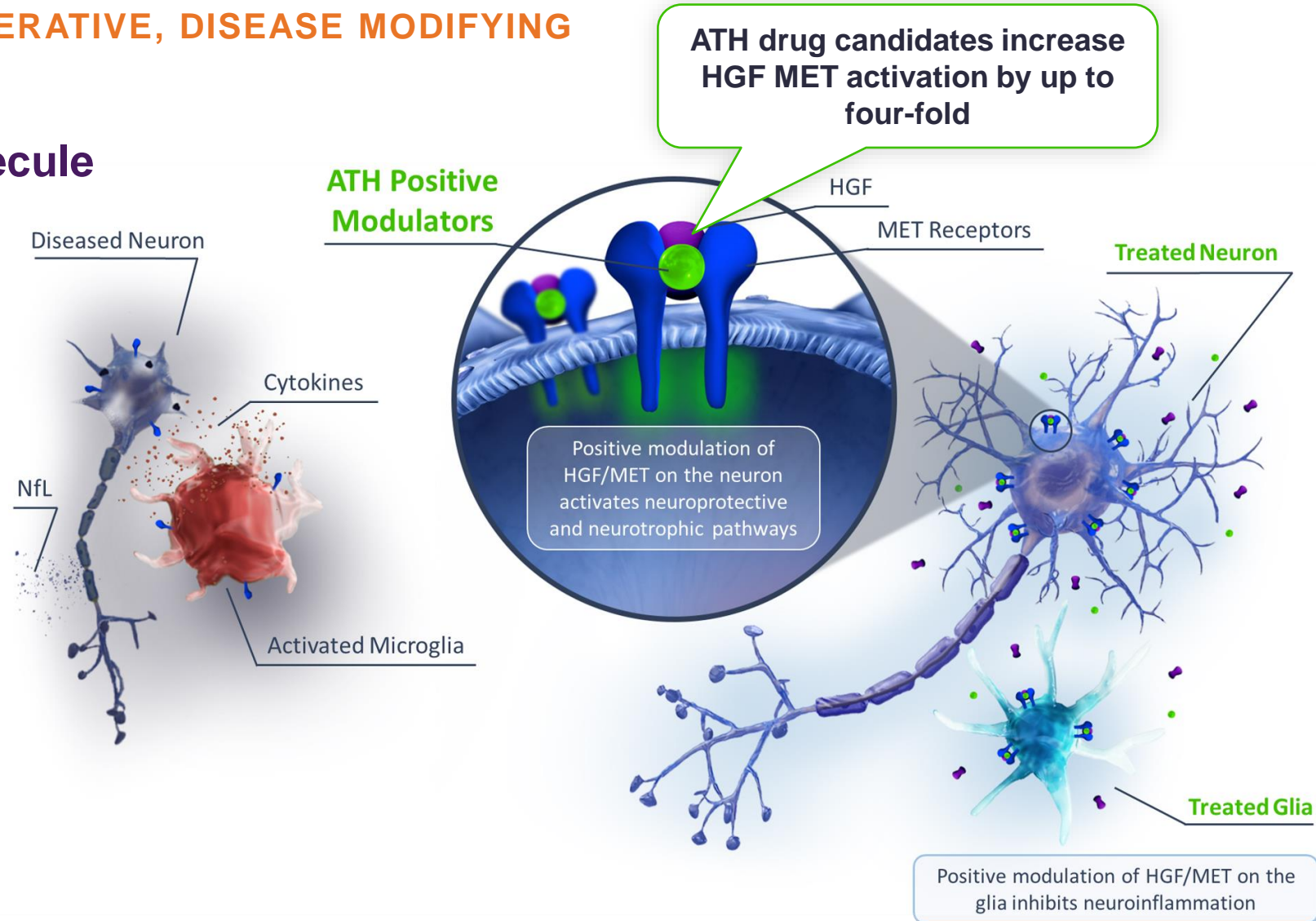
**MULTIMODAL, PROTECTIVE, REGENERATIVE, DISEASE MODIFYING**

## Potential first-in-class small molecule drug candidates



- Able to cross the blood-brain barrier
- Positively modulate HGF/MET

## Mechanism of action may

- Reduce inflammation
- Promote regeneration
- Provide neuroprotection
- Modify the course of disease



# Therapeutic potential across a broad range of clinical indications

Program	Indication	PRECLINICAL		CLINICAL			Status
		Early Discovery	IND-Enabling Studies	Phase 1	Phase 2	Phase 3	
Fosgonimeton	Alzheimer's Disease (AD) 				Phase 2/3 Clinical Trial	Open-Label Extension	LIFT-AD enrollment complete; topline data expected 2H24
					Phase 2 Clinical Trial	Open-Label Extension	ACT-AD topline data reported 2Q22
	Parkinson's Disease Dementia and Dementia with Lewy Bodies 				Exploratory Phase 2 Clinical Trial		SHAPE topline data reported 4Q23
ATH-1105	Amyotrophic Lateral Sclerosis (ALS)		IND-Enabling studies		IND Filing in 2024		Ongoing; target Phase 1 trial initiation in 2024
ATH-1020	Neurodegenerative Diseases			Phase 1 Clinical Trial			Single-ascending dose completed in healthy volunteers; no safety findings
Early Compounds	Neurodegenerative Diseases	Discovery and Development					Ongoing





# Fosgonimeton for the treatment of mild-to-moderate Alzheimer's disease

**Phase 2/3 LIFT-AD Trial Fully Enrolled with Topline Data Expected in 2H2024**



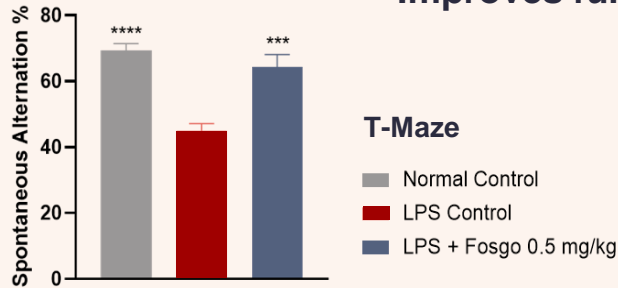
# Fosgonimeton protects and repairs neuronal networks in preclinical models

## MULTIMODAL APPROACH WITH POTENTIAL FOR DISEASE MODIFICATION

### REPAIR

### PROTECT

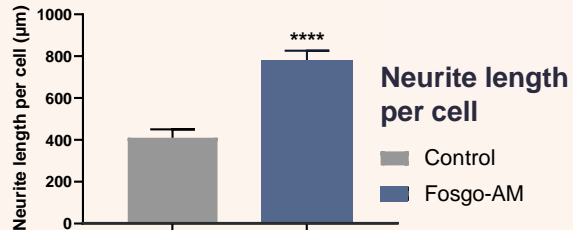
#### Improves function



#### T-Maze

■ Normal Control  
■ LPS Control  
■ LPS + Fosgo 0.5 mg/kg

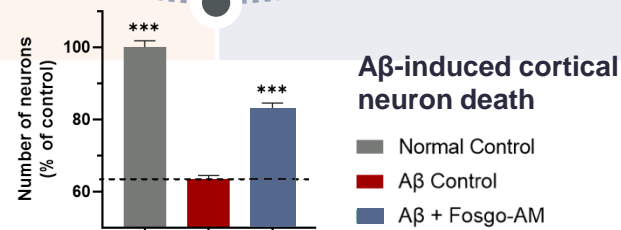
#### Neurotrophic



#### Neurite length per cell

■ Control  
■ Fosgo-AM

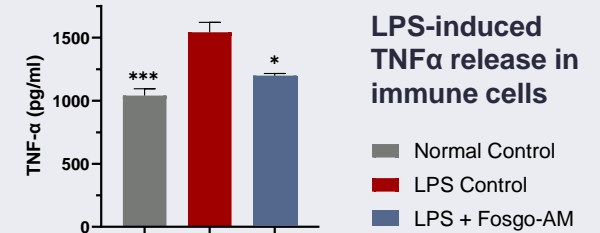
#### Neuroprotective



#### Aβ-induced cortical neuron death

■ Normal Control  
■ Aβ Control  
■ Aβ + Fosgo-AM

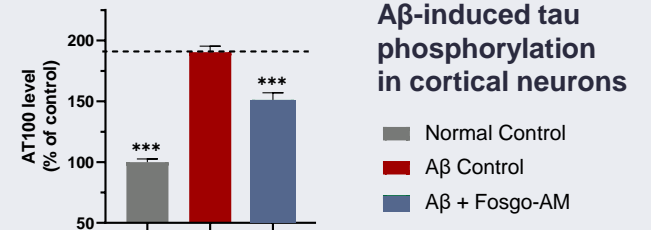
#### Anti-inflammatory



#### LPS-induced TNFα release in immune cells

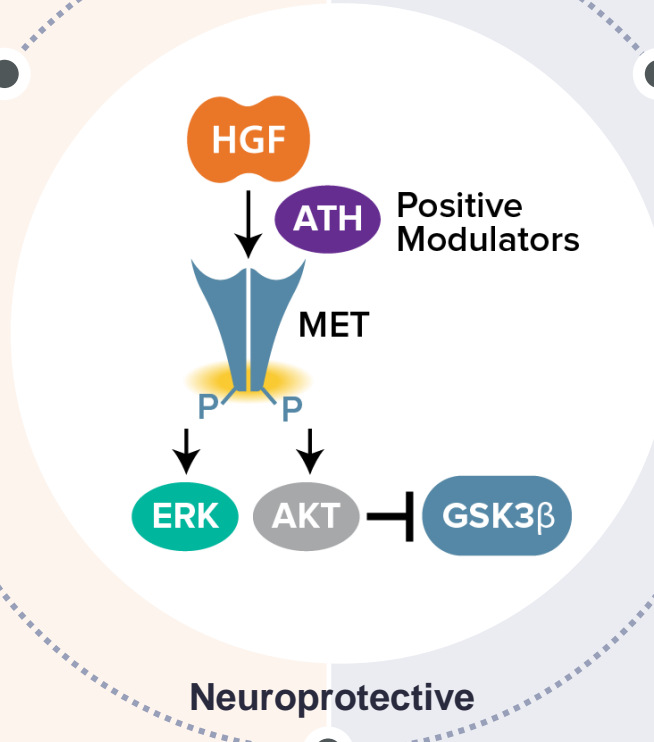
■ Normal Control  
■ LPS Control  
■ LPS + Fosgo-AM

#### Reduces protein pathology



#### Aβ-induced tau phosphorylation in cortical neurons

■ Normal Control  
■ Aβ Control  
■ Aβ + Fosgo-AM



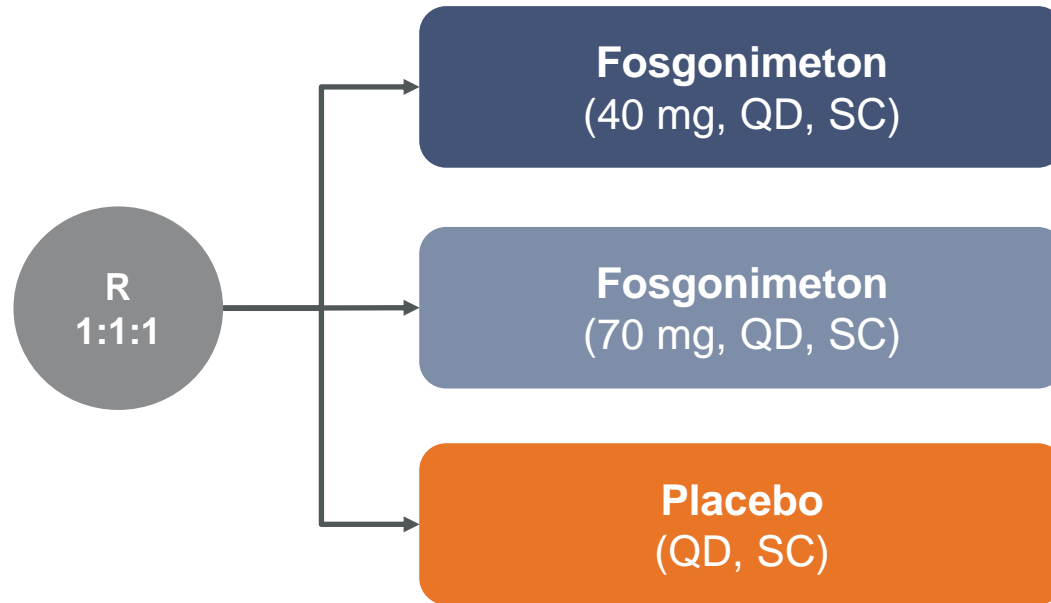
<sup>1</sup>Johnston et al., *Neurotherapeutics* 2022, Berthiaume, et al., *MNDA* 2022, Reda et al., *AAIC* 2022, Setti et al., *Sfn* 2022.

Aβ, amyloid beta; AKT, protein kinase B; ERK, extracellular-signal regulated kinase; fosgo-AM, fosgonimeton active metabolite; GSK3b, glycogen synthase kinase-3 beta; HGF, hepatocyte growth factor; LPS, lipopolysaccharide; TNF-α, tumor necrosis factor alpha.

# Fosgonimeton exploratory phase 2 trial in mild-to-moderate Alzheimer's disease\*



**RANDOMIZED PLACEBO-CONTROLLED SIX-MONTH TRIAL (N=77)**



## ENDPOINTS

**Primary:** Change in ERP P300 latency safety and tolerability

**Secondary:** ADAS-Cog11, ADCS-CGIC, ADCS-ADL23

**Exploratory:** Plasma biomarkers

## Key Learnings from ACT-AD

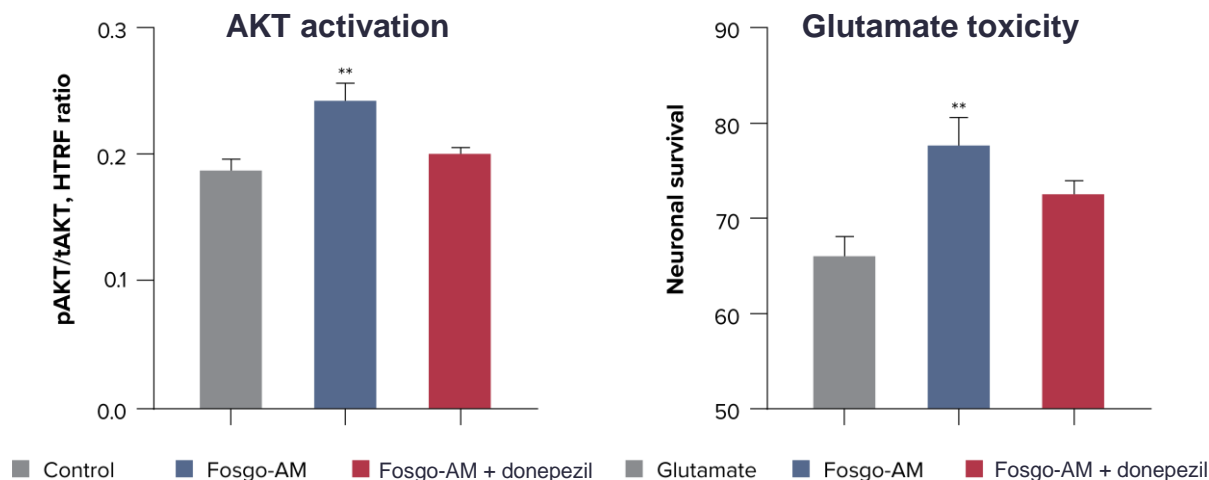
- Fosgonimeton was well-tolerated with a favorable safety profile
- Unexpected potential pharmacodynamic interaction with AChEIs
- Greater than 85% enrollment into OLEX from both ACT-AD and LIFT-AD studies
- Congruent clinical effects and biological signals
- P300 not appropriate endpoint given variability

# Neuroprotective effects of fosgonimeton are reduced with exposure to AChEIs

## Preclinical

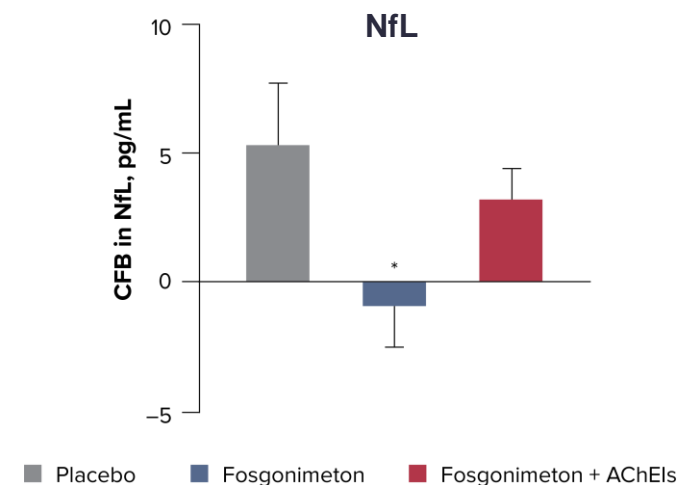
- Combination of fosgo-AM with donepezil interferes with fosgo-AM-induced AKT activation
- Neuroprotective effects of fosgo-AM are reduced when combined with donepezil

*Likely the result of observed decrease in fosgo-AM-induced AKT activation*



## Clinical

- Fosgonimeton significantly reduced NfL, a biomarker of neurodegeneration, in the ACT-AD study
- When combined with AChEIs, NfL increased, suggesting a loss of the neuroprotective effect
- This result is consistent with preclinical findings of reduced neuroprotection in combination with AChEIs



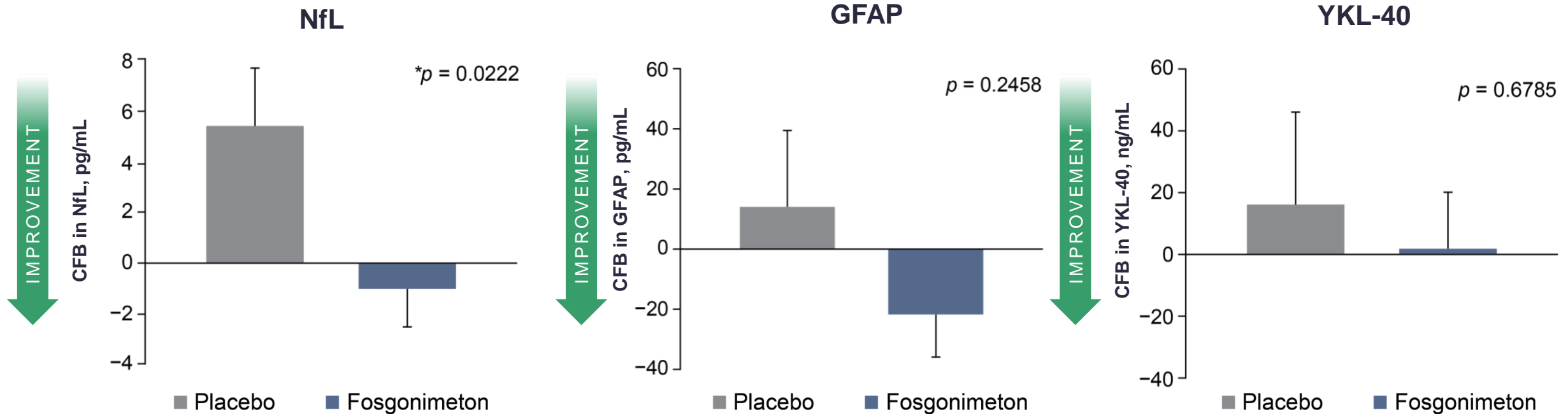
AChEIs, acetylcholinesterase inhibitors; AKT, protein kinase B; NfL, neurofilament light chain.

For in vitro assays, fosgonimeton was administered as the active metabolite, fosgo-AM. AKT assay: one-way ANOVA with Dunnett's post-test; \*\*p<0.01 vs. control; n = 6 (control), 5 (fosgo-AM), 3 (fosgo-AM + AChEIs), mean + SEM. Glutamate assay: one-way ANOVA with Dunnett's post-test; \*\*p<0.01 vs. glutamate; n = 6 (glutamate), 6 (fosgo-AM), 5 (fosgo-AM + AChEIs); mean + SEM.

For clinical data, NfL data are least squares means from an ANOVA model with CFB as the dependent variable with the following in the model: treatment group, AChEI use, baseline biomarker value, and the interaction of treatment and AChEI use. Error bars are  $\pm$  SE. n = 5 (placebo); n = 12 (fosgonimeton - AChEIs), n = 22 (fosgonimeton + AChEI).



# Neuroprotective and anti-inflammatory: Fosgonimeton reduces markers of neurodegeneration and inflammation

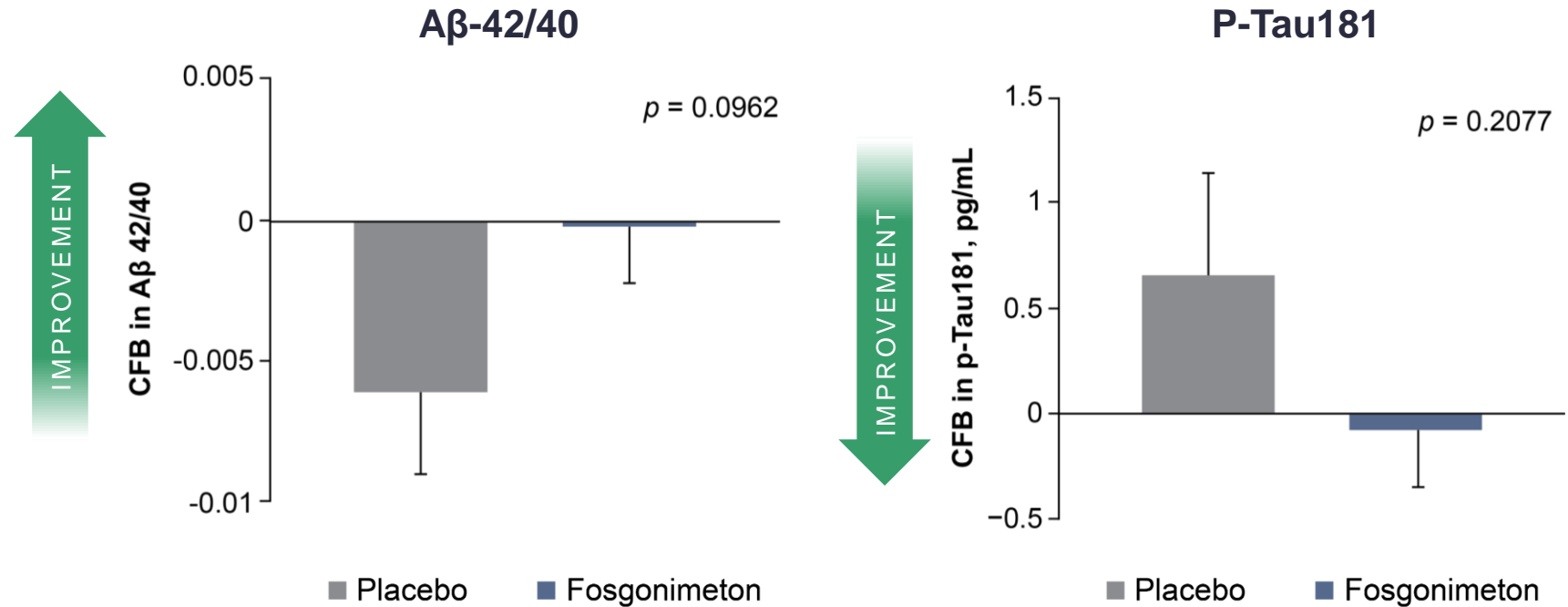


- Neurofilament light (NfL) is an established, objective biomarker of neurodegeneration
- Decrease of NfL to below baseline levels suggestive of repair in this continuously progressive disease

- GFAP and YKL-40 are markers of neuroinflammation
- Magnitude of decrease is encouraging in this continuously progressive condition

# Protein pathology: Fosgonimeton induces directional improvements in hallmarks of Alzheimer's disease

- Decreased A $\beta$  42/40 ratio and increased absolute p-Tau values are hallmarks of Alzheimer's disease
- Changes support relevance of the HGF/MET pathway also to Alzheimer's-specific protein pathology
- Supports disease modifying potential of fosgonimeton



Data are least square means from an ANOVA model with change from baselines as the dependent variable with the following in the model: treatment group, AChEI use, baseline biomarker value and the interaction of treatment and AChEI use. Error bars are  $\pm$  SE. N=5 for placebo treatment; N=11 or 12 for fosgonimeton treatment without concomitant AChEI.

A $\beta$ , amyloid beta; CFB, change from baseline; HGF, hepatocyte growth factor; p-Tau181, tau phosphorylated at threonine-181; SE, standard error.

# Functional improvements: Potential benefits in cognition and function from fosgonimeton treatment



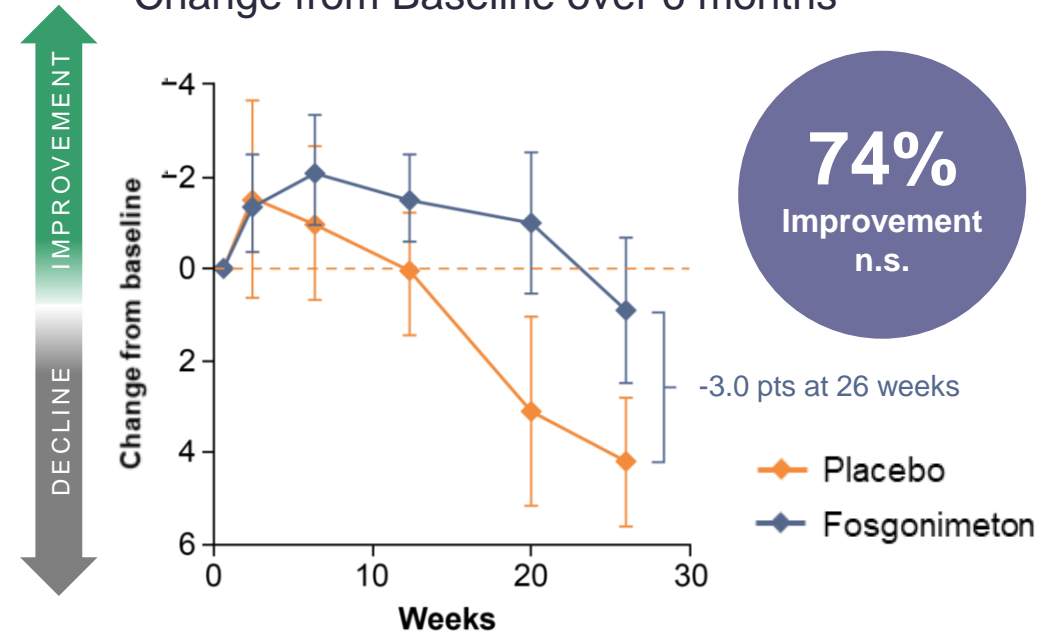
SUPPORTS POTENTIAL TO BE A SAFE AND DIFFERENTIATED FUTURE THERAPY

**74%** | **-3.0**  
points n.s. | **IMPROVED COGNITION**  
Improvement over placebo over 6 months  
as measured by ADAS-Cog11 in patients  
without background therapy

**41%** | **+1.7**  
points n.s. | **IMPROVED FUNCTION**  
Improvement over placebo over 6 months  
as measured by ADCS-ADL23 in full  
study population

Favorable safety and tolerability profile,  
injection site reactions are most frequent AE

## ADAS-COG11 (Procognitive Effect) Change from Baseline over 6 months



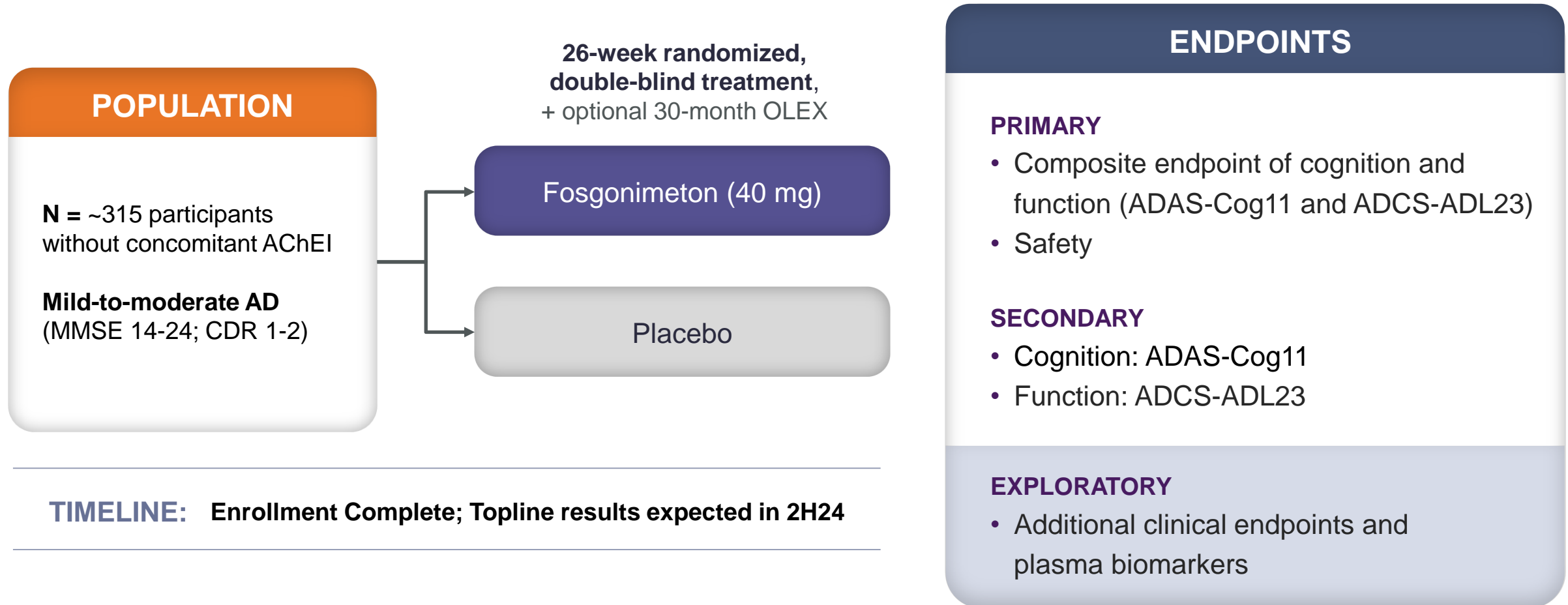
n at each visit	W2	W6	W12	W20	W26
Placebo	8	8	7	7	6
Fosgonimeton	19	19	17	16	17

Data from mITT population without background therapy and presented as unadjusted mean  $\pm$  SEM; n.s., not statistically significant.  
AD, Alzheimer's disease; ADAS-Cog11, Alzheimer's Disease Assessment Scale–Cognitive Subscale; ADCS-ADL23, Alzheimer's Disease Cooperative Study–Activities of Daily Living; AE, adverse event; mITT, modified intent-to-treat; W, week.

# Fosgonimeton phase 2/3 LIFT-AD trial after amendments



## LEARNINGS FROM ACT-AD INFORM TRIAL DESIGN OPTIMIZATION





# Independent unblinded analysis by DMC supports the potential clinically meaningful activity of fosgonimeton

## DMC ANALYSIS

- Efficacy and futility analysis performed on first 100 patients who completed the six-month trial of fosgonimeton compared with placebo
- DMC Recommendation (Oct 2022): **Continue LIFT-AD Study**

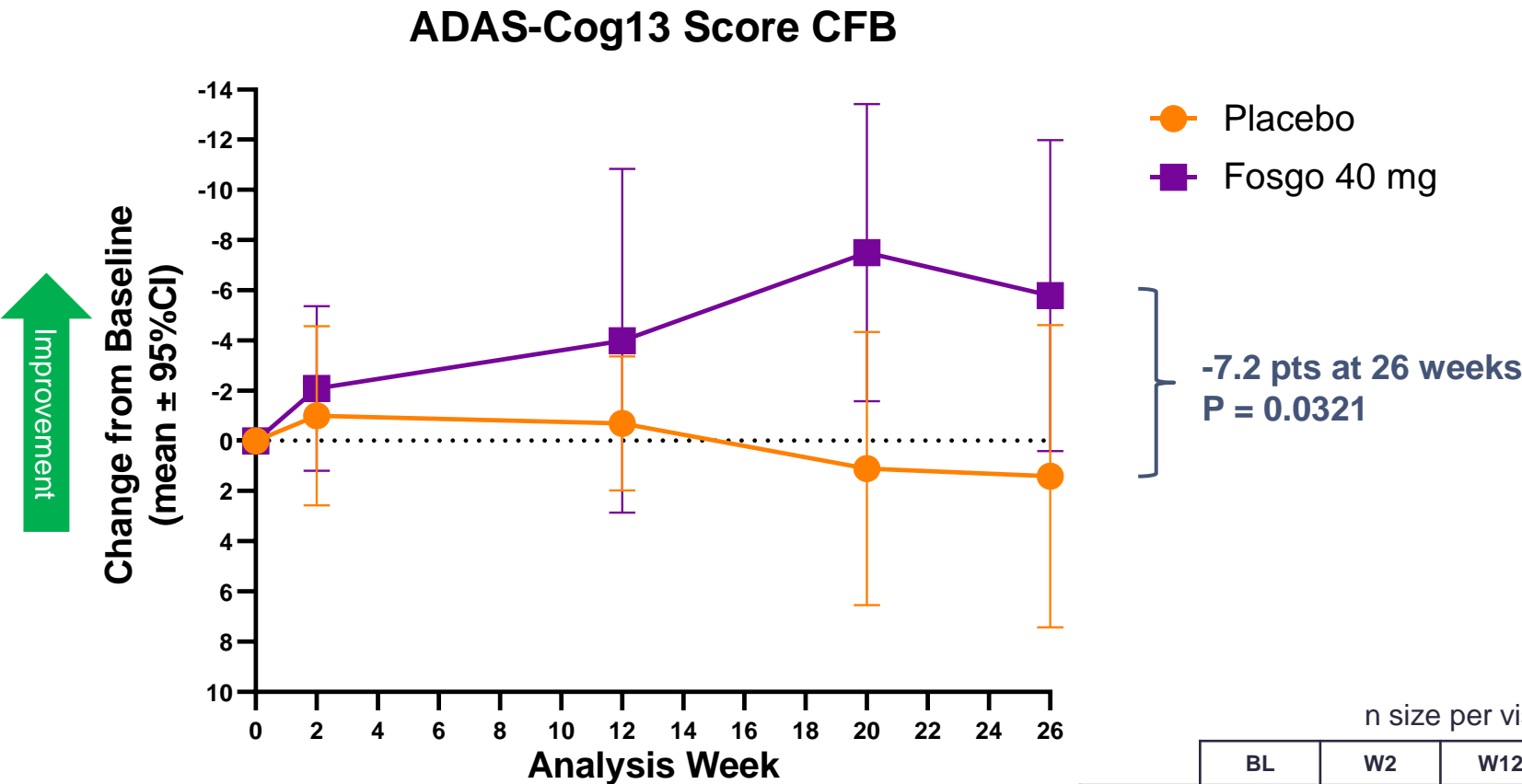
		ADCS-ADL23					
		0	+1	+2	+2.5	+3	+4
ADAS-Cog11	0		Stop for Futility				
	-1						
	-2			Exceeds maximum enrollment constraint			
	-2.5						
	-3				Continue Study		
	-4						

**DMC analysis suggests greater potential of LIFT-AD success**

# In a different disease setting\* fosgo improved cognition with 40mg dose compared to placebo



ADAS-COG13 SCORE CHANGE FROM BASELINE MEAN AND 95% CI – MODIFIED INTENT TO TREAT POPULATION



\* The SHAPE trial investigated fosgonimeton in Parkinson’s disease dementia and Dementia with Lewy Bodies



ADAS-Cog13: Alzheimer’s Disease Assessment Scale – Cognitive Subscale 13-item version; CI: Confident Interval; ITT: Intent-to-treat; Baseline is defined as the mean of the pre-dose measurements. Multiple efficacy assessments are averaged if they fall at the same visit.

	n size per visit				
	BL	W2	W12	W20	W26
Placebo	9	9	9	8	7
40 mg	7	7	7	6	5

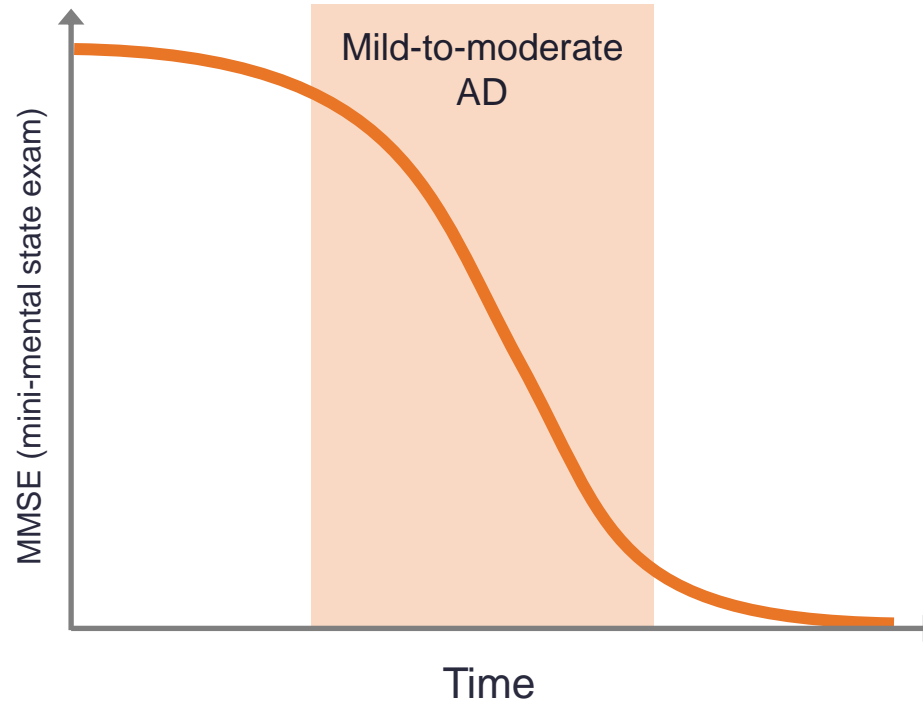
# New Treatment Options Needed for Mild-to-Moderate Alzheimer's Disease

## Medical need:

The point of most accelerated disease progression<sup>1,2</sup>

Few treatment options with only modest effects<sup>3</sup>

Higher financial burden than pre-dementia<sup>4</sup>

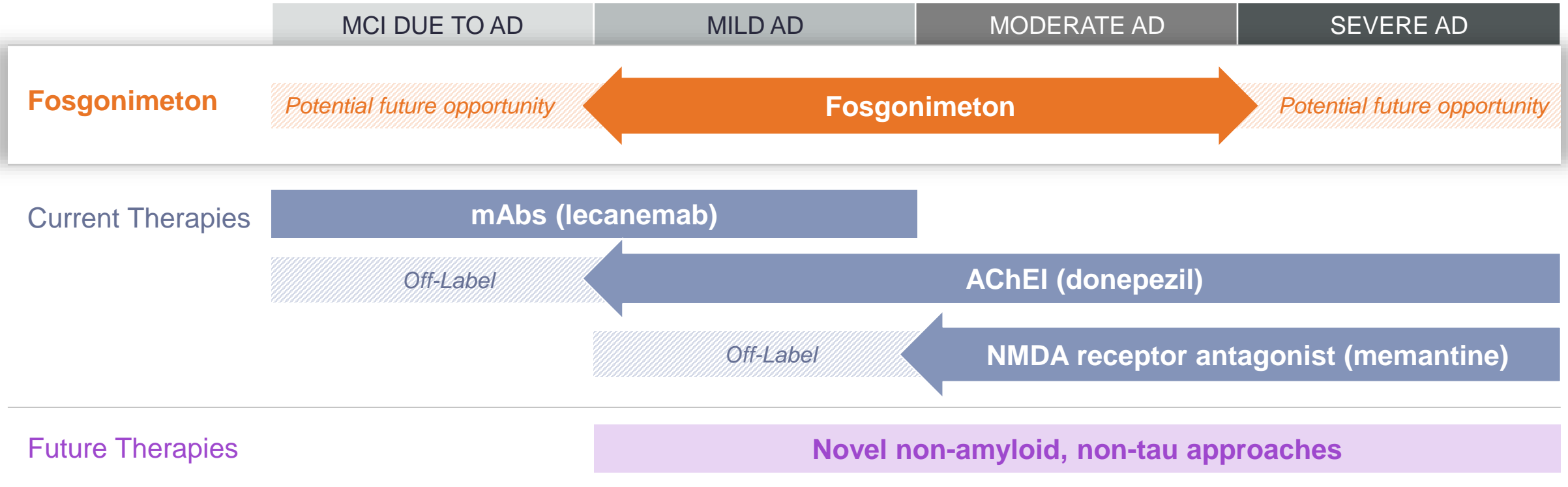


## Reduced development risk:

Clinical, syndromal diagnosis is possible<sup>5</sup>

Increased likelihood of tangible placebo decline

# Significant opportunity in Alzheimer's disease



**81% of all patients diagnosed with Alzheimer's disease are mild-to-moderate**

2.1 million mild-to-moderate Alzheimer's patients diagnosed in 2021 in the US

**Few available options**

75% of patients in the US move to a second-line treatment in less than a year



# Significant opportunity in Alzheimer's disease



**55 million**

People living with Alzheimer's dementia today<sup>1</sup>



**Multi-Billion \$ Market**

Despite generic entries



**Only Two**

New drugs launched since 2003 - two anti-amyloid antibodies

**Over 100 million globally by 2050**

~900,000 new patients diagnosed annually in the US alone<sup>1,2</sup>

**6.2 million treatment eligible patients in the US in 2021 based on prevalence data**

Growing at 3% per year<sup>2</sup>

**Mild to Moderate comprises 81% of all patients with Alzheimer's Disease**

78.5% of these patients receive Rx therapies<sup>3</sup>

**Significant opportunity for fosgonimeton**

Market research suggests favorable reaction and receptivity to fosgonimeton base case target product profile<sup>4</sup>

<sup>1</sup> <https://www.alzint.org/about/dementia-facts-figures/>

<sup>2</sup> <https://www.alz.org/media/documents/alzheimers-facts-and-figures.pdf>

<sup>3</sup> <https://www.nia.nih.gov/news/half-alzheimers-disease-cases-may-be-mild>

<sup>4</sup> ClearView Healthcare Partners Market Research Analysis

# Strong rationale to advance fosgonimeton

**SIGNIFICANT OPPORTUNITY TO TRANSFORM THE TREATMENT PARADIGM FOR NEURODEGENERATIVE DISEASES**

## Disease modifying

Improves cognition – preclinically and clinically

Improves function – preclinically and clinically

Reduces inflammation – preclinically and clinically

Prevents nerve cell death – preclinically

Favorable safety and tolerability profile

Risk mitigated Ph 2/3 LIFT-AD following interim analysis

**Differentiated  
and Risk Mitigated**



## High unmet need

Enormous potential market

**Favorable external  
landscape**

Amyotrophic  
Lateral Sclerosis

ATH-1105



# Positive modulation of HGF as a potential treatment for ALS

## ALS is a devastating progressive neurodegenerative disease

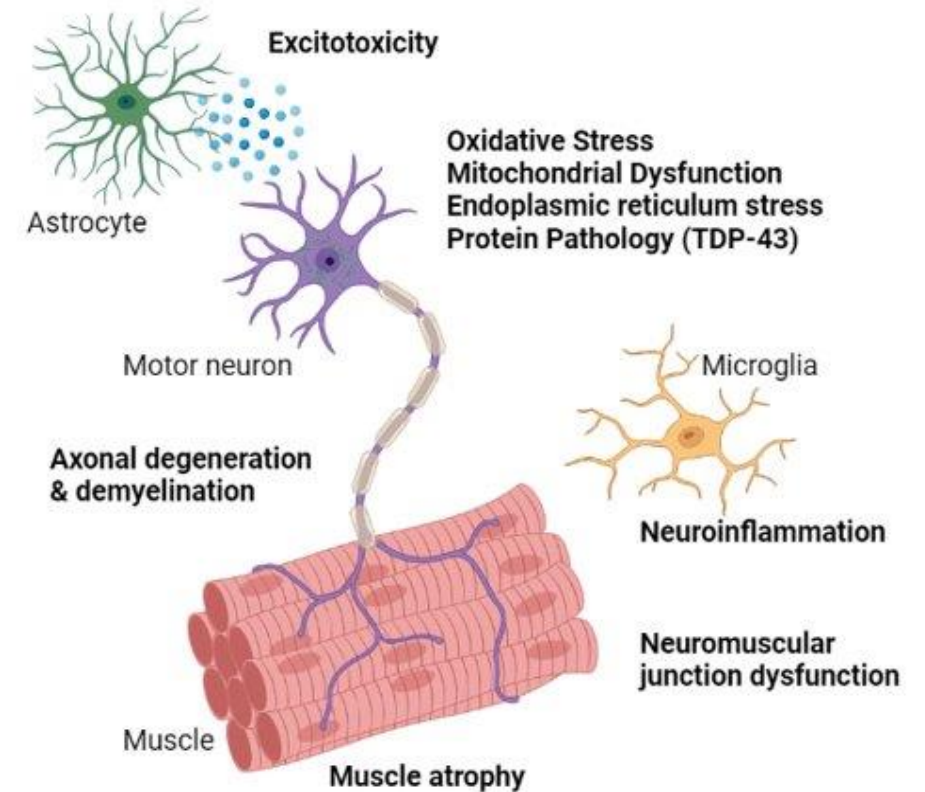
- Characterized by degradation of motor neurons due to several factors including glutamate excitotoxicity, TDP-43 protein pathology, and systemic inflammation

## Approximately 97% of ALS patients have TDP-43 pathology<sup>1</sup>

- TDP-43 is a nuclear protein under normal conditions but in ALS forms toxic aggregates in the cytoplasm of motor neurons
- TDP-43 mouse models have been developed that exhibit TDP-43 pathology and ALS-like symptoms

## Promotion of HGF/MET activity has been reported to have beneficial effects in preclinical models of ALS

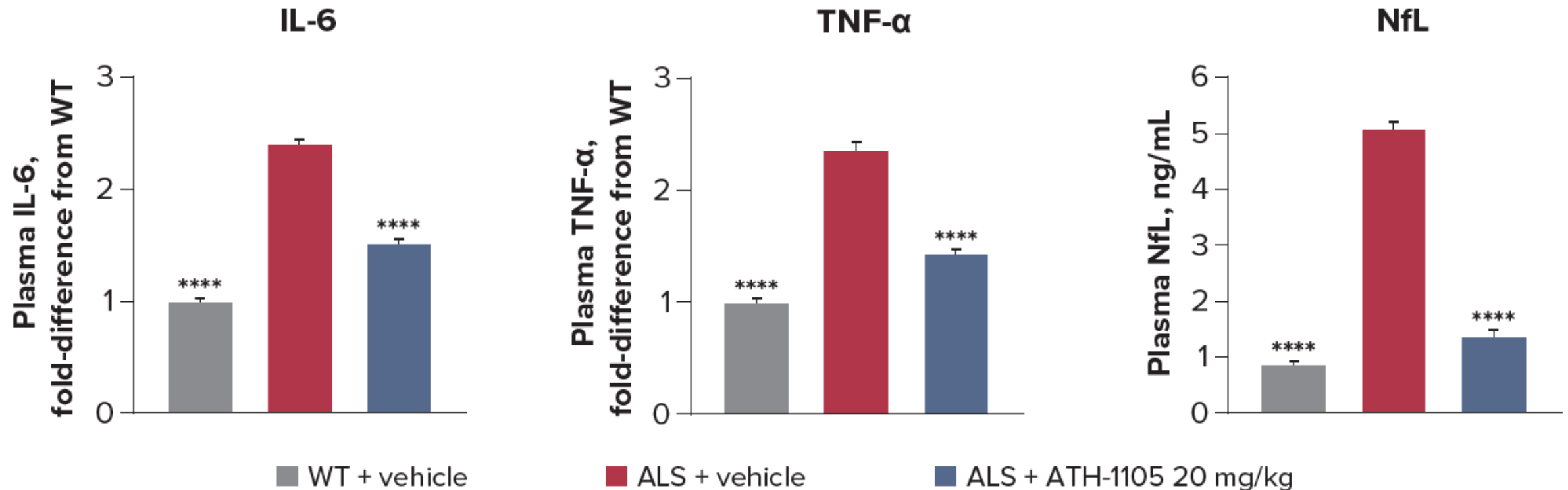
- HGF delays disease progression in ALS animal models<sup>2,3</sup>
- HGF reduces muscle impairment and motor neuron loss in an ALS mouse model<sup>4</sup>





# Anti-inflammatory and neuroprotective: ATH-1105 reduces markers of inflammation and neurodegeneration

## TDP-43 MOUSE MODEL OF ALS



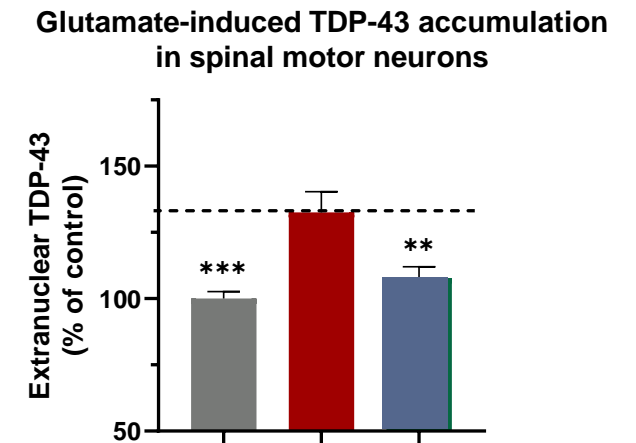
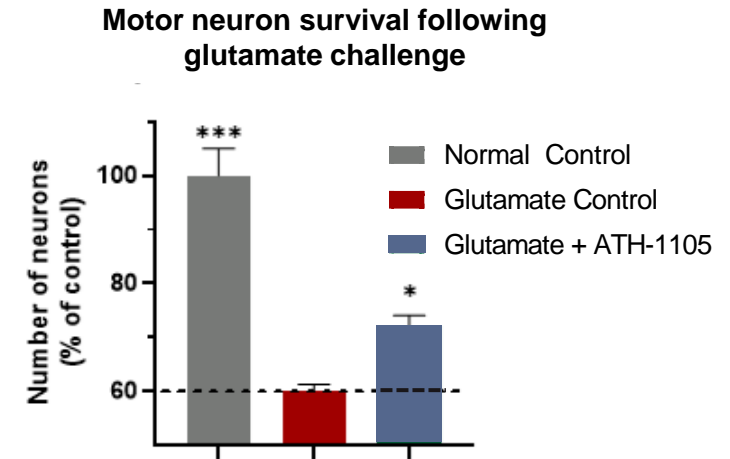
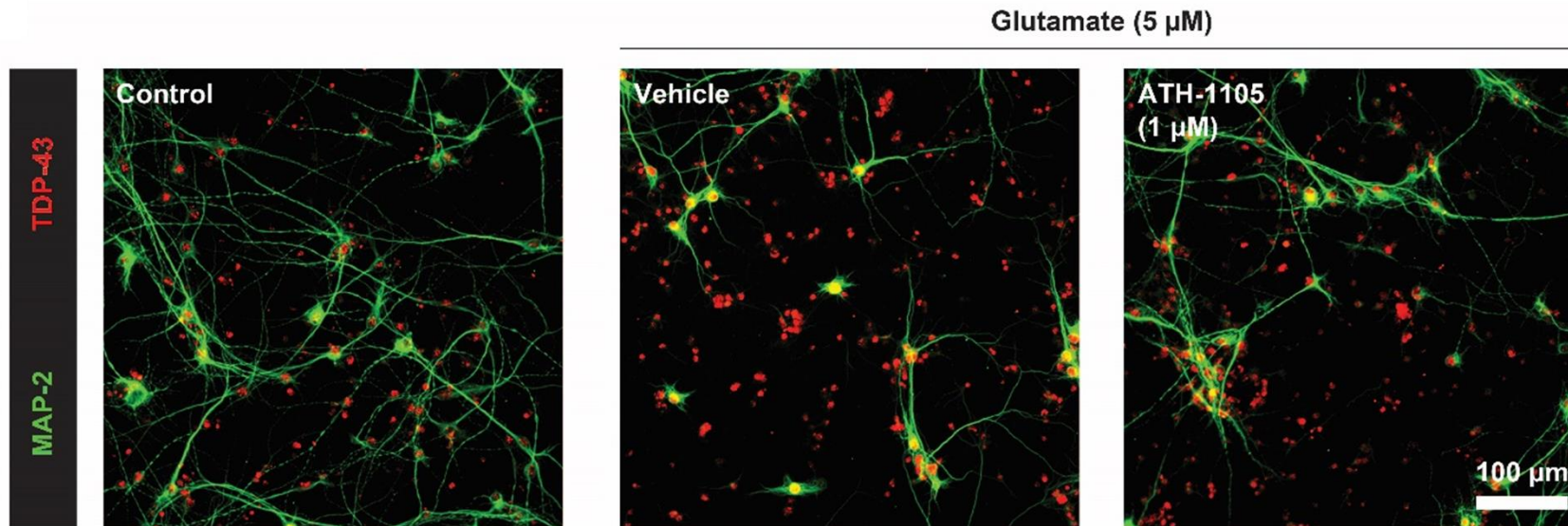
Data presented as mean ± SEM.

Statistical significance was determined by 1-way ANOVA with Dunnett's test versus ALS + vehicle. \*\*\*\*p < 0.0001.

ALS, amyotrophic lateral sclerosis; IL-6, interleukin 6; NfL, neurofilament light chain; TDP-43, TAR DNA-binding protein 43; TNF-α, tumor necrosis factor alpha; WT, wild-type.

# Neuroprotection and protein pathology: ATH-1105 reduces extranuclear TDP-43 accumulation and enhances neuron survival

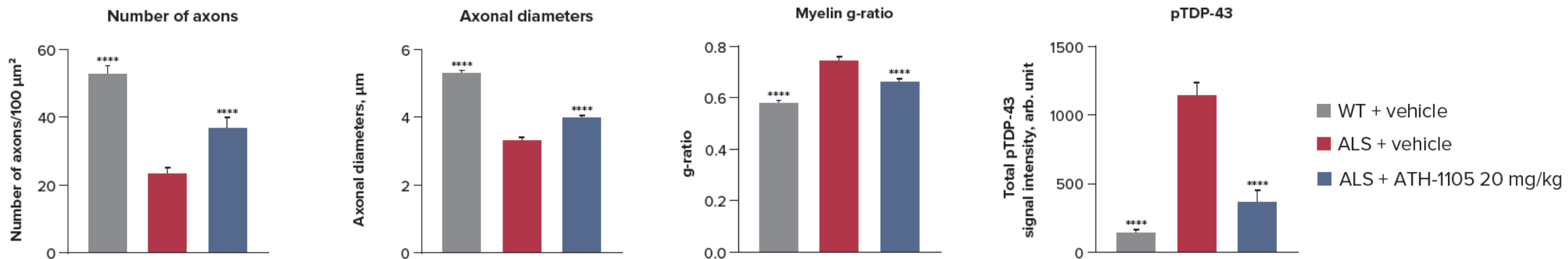
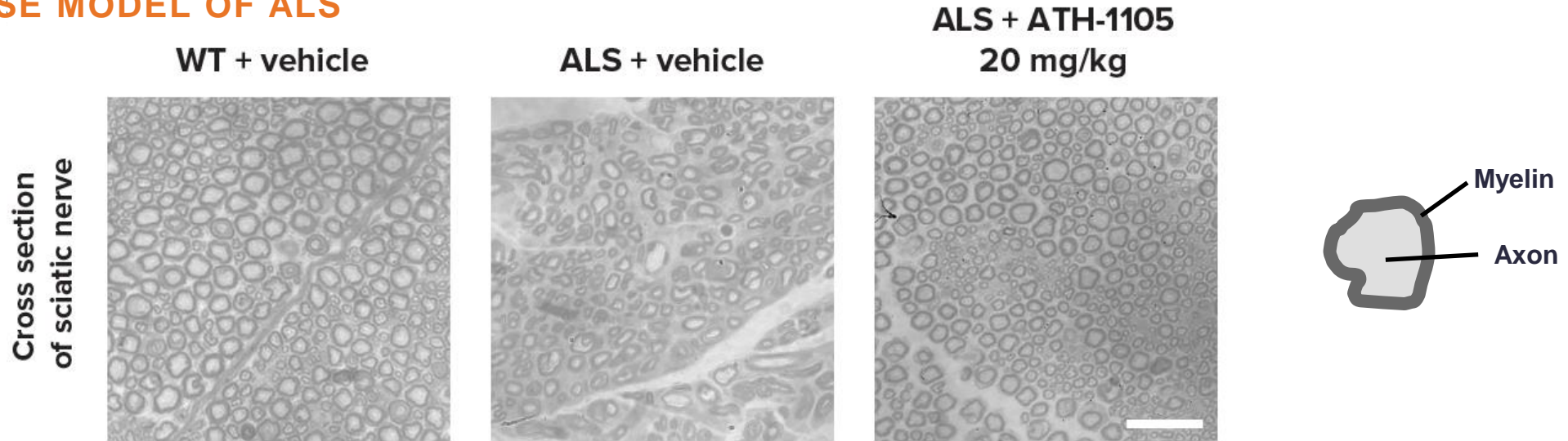
## GLUTAMATE CHALLENGE MODEL IN MOTOR NEURON CULTURES



Primary rat spinal motor neurons. Cultures treated with vehicle control or 5 μM glutamate. Data presented as mean ± SEM. Statistics applied: 1-way ANOVA with Fisher least significant difference test. \*p < 0.05, \*\*p < 0.01, \*\*\*p < 0.001 versus Glutamate Control; n = 6. Scale bar: 100 μm, applies to all images. MAP-2, microtubule-associated protein-2; TDP-43, TAR DNA-binding protein 43.

# Neuroprotective: ATH-1105 protects against axon degeneration and demyelination, and reduces pTDP-43

## TDP-43 MOUSE MODEL OF ALS



Graphical representation of the number of axons (per 100  $\mu\text{m}^2$ ), axonal diameter (in micrometers), and mean of myelin g-ratio, defined as the ratio of the inner axonal diameter to the total axonal diameter, following 2 months of treatment. Data presented as mean + SEM. Statistical significance was determined by 1-way ANOVA with Dunnett's test versus ALS + vehicle. \*\*\*\*p < 0.0001.

Scale bar: 10  $\mu\text{m}$ , applies to all images.

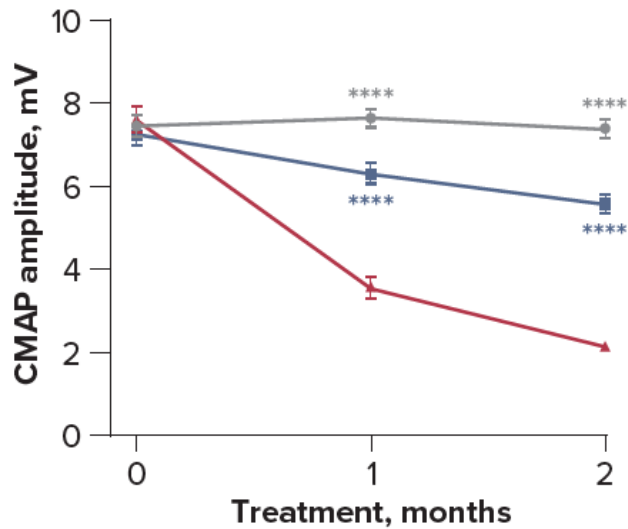
ALS, amyotrophic lateral sclerosis; pTDP-43, phosphorylated TDP-43; TDP-43, TAR DNA-binding protein 43; WT, wild-type.

# Function: ATH-1105 improves nerve and motor function

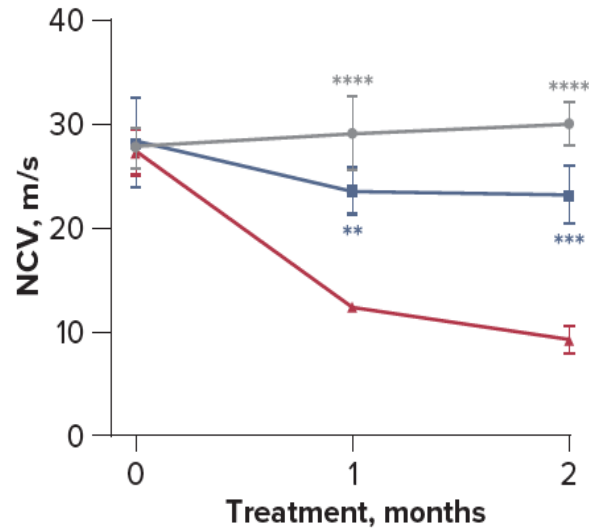
## TDP-43 MOUSE MODEL OF ALS

### Nerve Function

#### CMAP

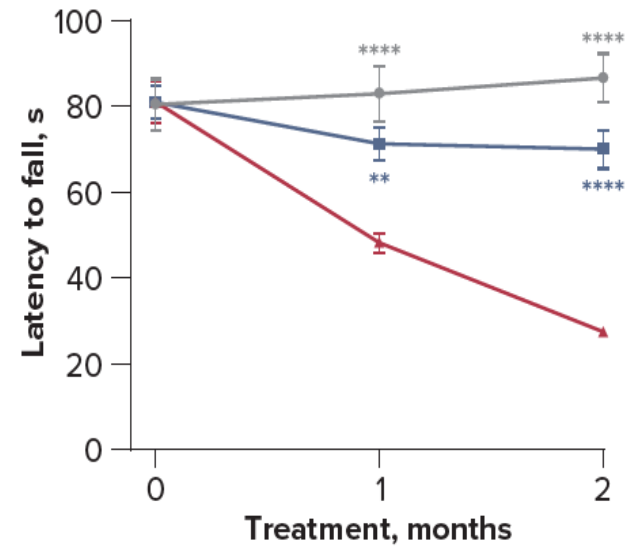


#### NCV

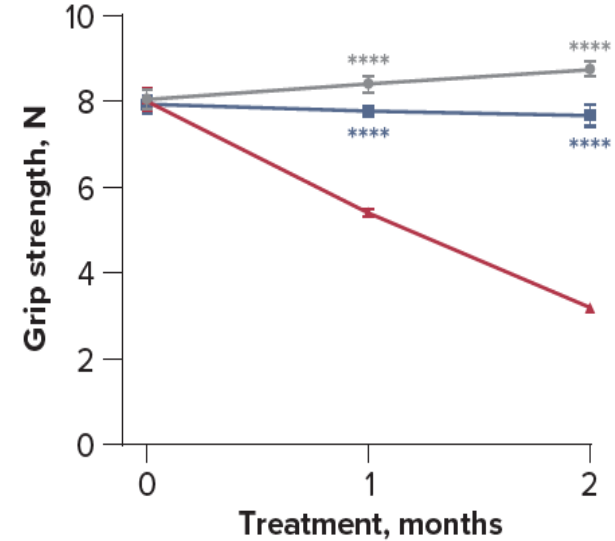


### Motor Function

#### Rotarod



#### Grip test



● WT + vehicle

▲ ALS + vehicle

■ ALS + ATH-1105 20 mg/kg

Data presented as mean  $\pm$  SEM.

Statistical significance was determined by 2-way ANOVA with Dunnett's test versus ALS + vehicle. \*\*p < 0.01; \*\*\*p < 0.001;

\*\*\*\*p < 0.0001. n = 10 mice per group.

ALS, amyotrophic lateral sclerosis; CMAP, compound muscle action potential; NCV, nerve conduction velocity; TDP-43, TAR DNA-binding protein 43; WT, wild-type.

# Survival: ATH-1105 prolongs survival and delays time to first mortality

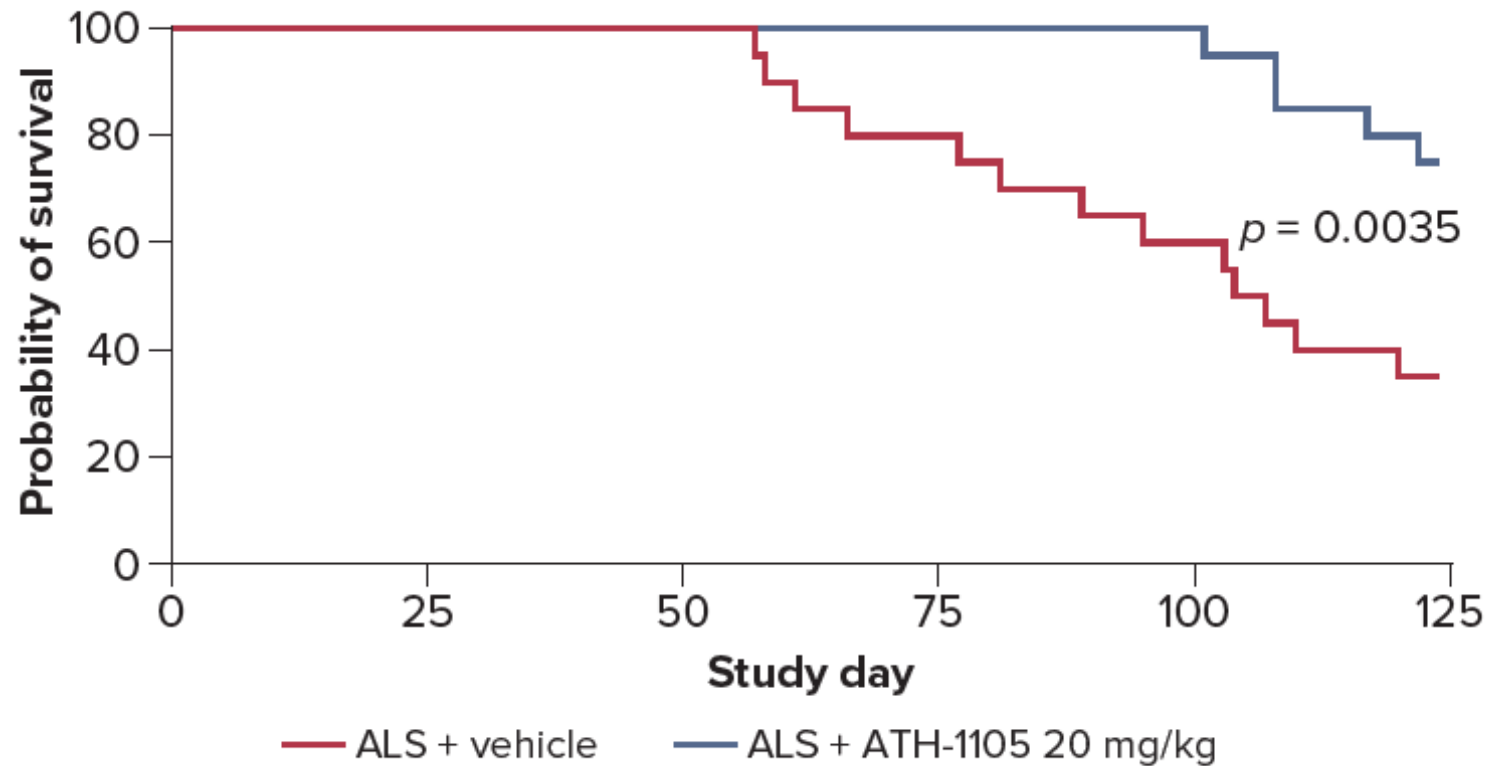
## TDP-43 MOUSE MODEL OF ALS

### Time to first mortality

- Day 57 in ALS + vehicle group
- Day 101 in ALS + ATH-1105 20 mg/kg

### Percent survival at 5 months of age

- 35% in ALS + vehicle group
- 75% in ALS + ATH-1105 20 mg/kg





# ATH-1105 preclinical data summary

**In the TDP-43 mouse model of ALS, daily oral treatment of ATH-1105 resulted in:**

- Improvement in motor function, and protection against body weight reduction
- Preservation of nerve function and structure
- Reduction of plasma biomarkers of systemic inflammation and neurodegeneration
- Prolonged survival and delayed time to first mortality

These results highlight the therapeutic potential of ATH-1105 in ALS and support further development

# Significant unmet need: Amyotrophic Lateral Sclerosis (ALS)



**~75,000<sup>1</sup>**

People globally affected by ALS with the 40% of those cases in the US



**Six<sup>1</sup>**

Approved drugs specifically indicated for the treatment of ALS



**Zero<sup>1</sup>**

ALS drugs targeting neurotrophic factor systems with a multimodal mechanism of action

## Global Market Size for ALS<sup>1</sup>

2019:

**\$197M**

2029 Projected:

**\$781M**

## Drugs in Development<sup>1,2</sup>

Limited differentiated and multifactorial approaches

Tofersen addresses a familial form of ALS accounting for <3% of all cases (recently received accelerated approval on the basis of NfL)

## Significant Opportunity for ATH-1105

Limited approved treatment options exist for ALS patients

Multimodal mechanism of action – neuroprotective, anti-inflammatory and potentially disease modifying

Positive modulation of a naturally occurring repair mechanism

A group of approximately eight people are seated around a long wooden conference table in a meeting room. They are engaged in a discussion, with some looking towards a large screen at the front of the room. The screen displays a video conference grid with multiple participants and a presentation slide. The slide features the Athira Pharma logo, the text "December All Hands Meeting", and the date "December 10th, 2024". On the table, there are several items including coffee cups, a tablet, a smartphone, a red water bottle, and some papers. The room has a modern, professional feel with neutral-colored walls and a large window or screen at the front.

# Corporate



# Athira management team with significant CNS product development and approval experience

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# Moving forward

- ✓ Independent, unblinded interim analysis of fosgonimeton Phase 2/3 LIFT-AD
- ✓ LIFT-AD completed enrollment
- ✓ Enrolled 28 patients in exploratory fosgonimeton SHAPE trial of in PD and dementia with Lewy bodies
- ✓ ATH-1105 prolonged survival, delayed time to first mortality, and demonstrated consistent improvements in motor function, nerve function, biomarkers and nerve morphology in a transgenic mouse model of ALS



- Topline results expected in 2H2024



- Topline results reported 4Q2023; evaluating next steps



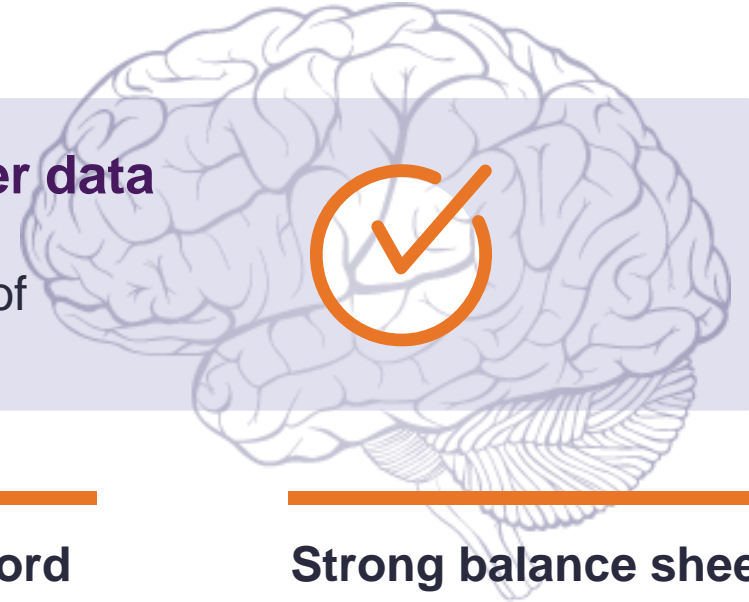
- Complete IND enabling studies
- File IND
- Initiate first-in-human Phase 1 testing of ATH-1105 in 1H2024



# Well positioned to lead with innovative approach to battling neurodegenerative diseases

## **Consistent and correlative preclinical, clinical and biomarker data**

showing that enhancing HGF neurotrophic system has potential to be neuroprotective, anti-inflammatory and disease modifying in a number of neurodegenerative diseases



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**Mitigated development risk**  
through independent, unblinded interim analysis of Phase 2/3 LIFT-AD trial

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**Evolving regulatory environment and favorable competitive landscape**

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**Strong track record of execution** and leadership team with significant CNS product development and approval experience

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**Strong balance sheet** to support programs through key inflection points (~\$147M in cash\*)



Thank You

