

Corporate Presentation

September 2026



Forward looking statements

This presentation should be read in conjunction with the risk factors disclosed in Alterity Therapeutics Limited's most recent filings with the Australian Securities Exchange and the United States Securities and Exchange Commission, including the Company's most recent Annual Report on Form 20-F and subsequent reports on Form 6-K. This presentation may contain forward-looking statements, including within the meaning of the United States Private Securities Litigation Reform Act of 1995, section 27A of the United States Securities Act of 1933 and section 21E of the United States Securities Exchange Act of 1934. Forward-looking statements relate to anticipated future events, results, performance, plans, strategies or business developments. Forward-looking statements can generally be identified by words such as "anticipates", "believes", "could", "estimates", "expects", "intends", "may", "plans", "potential", "seeks", "should", "will" and similar expressions, including the negative of those terms. Forward-looking statements involve known and unknown risks, uncertainties and other factors that may cause the Company's actual results, performance or achievements to differ materially from those expressed or implied by the forward-looking statements.

Forward-looking statements are based on the Company's assumptions regarding clinical, regulatory, financial, market, operational and other risks and considerations that may affect the Company's business and operations in the future. There can be no assurance that any of these assumptions will prove to be correct. In the context of the Company's business, forward-looking statements may include, but are not limited to, statements regarding: the initiation, timing, progress, completion and results of the Company's preclinical and clinical trials and research and development programs; the Company's ability to advance ATH434 into, enroll and successfully complete clinical trials, including multinational clinical trials; the timing and likelihood of regulatory filings, regulatory interactions and regulatory approvals; the safety, efficacy and potential therapeutic or commercial benefits of ATH434; manufacturing, supply and product development activities; the protection, duration and enforcement of the Company's intellectual property rights and its freedom to operate; the Company's future funding requirements and its ability to obtain additional financing; and potential commercialization, licensing, collaboration or partnership activities.

These forward-looking statements are subject to risks and uncertainties associated with drug development, clinical trial recruitment and conduct, clinical outcomes, regulatory review and approval, manufacturing and supply, intellectual property, competition, future funding and commercialization. Unexpected safety findings or inadequate therapeutic efficacy could delay or prevent the development or commercialization of ATH434. The Company's actual results, performance or achievements may differ materially from those expressed or implied by the forward-looking statements. Accordingly, readers should not place undue reliance on forward-looking statements.

Forward-looking statements speak only as of the date of this presentation. Except as required by applicable law, the ASX Listing Rules or Nasdaq rules, the Company undertakes no obligation to publicly update or revise any forward-looking statement as a result of new information, future developments, changes in expectations or otherwise.



Alterity is a late clinical stage
biopharmaceutical company
dedicated to developing treatments
for neurodegenerative diseases



Alterity means the state of
being different



Our goal is to slow the course
of disease progression



We strive to create an
alternate future and improve
patient quality of life

Redefining Neurodegenerative Disease Therapy

A Potential First-in-Class, Disease-Modifying Therapy for Multiple System Atrophy (MSA)

1

Compelling Phase 2 Efficacy on FDA-Endorsed Endpoint

- Up to 46% slowing of disease progression v. placebo ($p < 0.05$) on FDA-endorsed endpoint*
- Favorable safety profile with no drug-related serious adverse events

2

Unmet Need with Significant Commercial Potential

- MSA is a rare, rapidly progressive disease (up to 50,000 U.S. patients)
- ~\$US2.4B global peak sales opportunity in MSA with patent protection to 2045

3

Differentiated, Disease-Modifying Approach for MSA

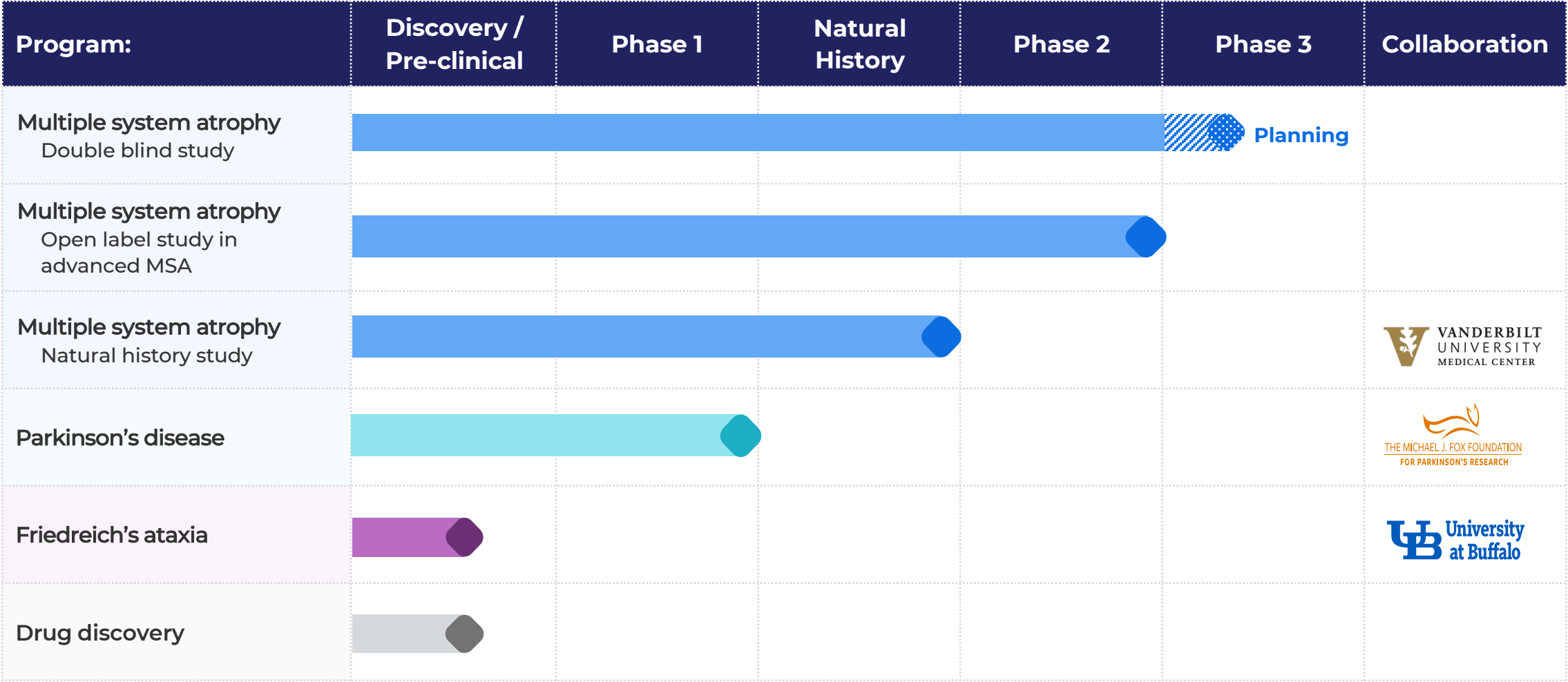
- Oral iron chaperone ATH434 targets excess reactive iron and α -synucleinopathies
- Blood brain barrier penetrant small molecule

4

Pivotal Advancement in 2026 with Clear Regulatory Path

- Successful End-of-Phase 2 FDA meeting obtained alignment on Phase 3 design
- Veteran development team with 3 FDA approvals in Neurology area

Broad opportunity for ATH434 in neurodegenerative disease



Multiple System Atrophy (MSA): Parkinsonian disorder with no approved treatment

Rapidly progressive

Highly debilitating

Up to 50,000

patients in U.S.

Disease characteristics:

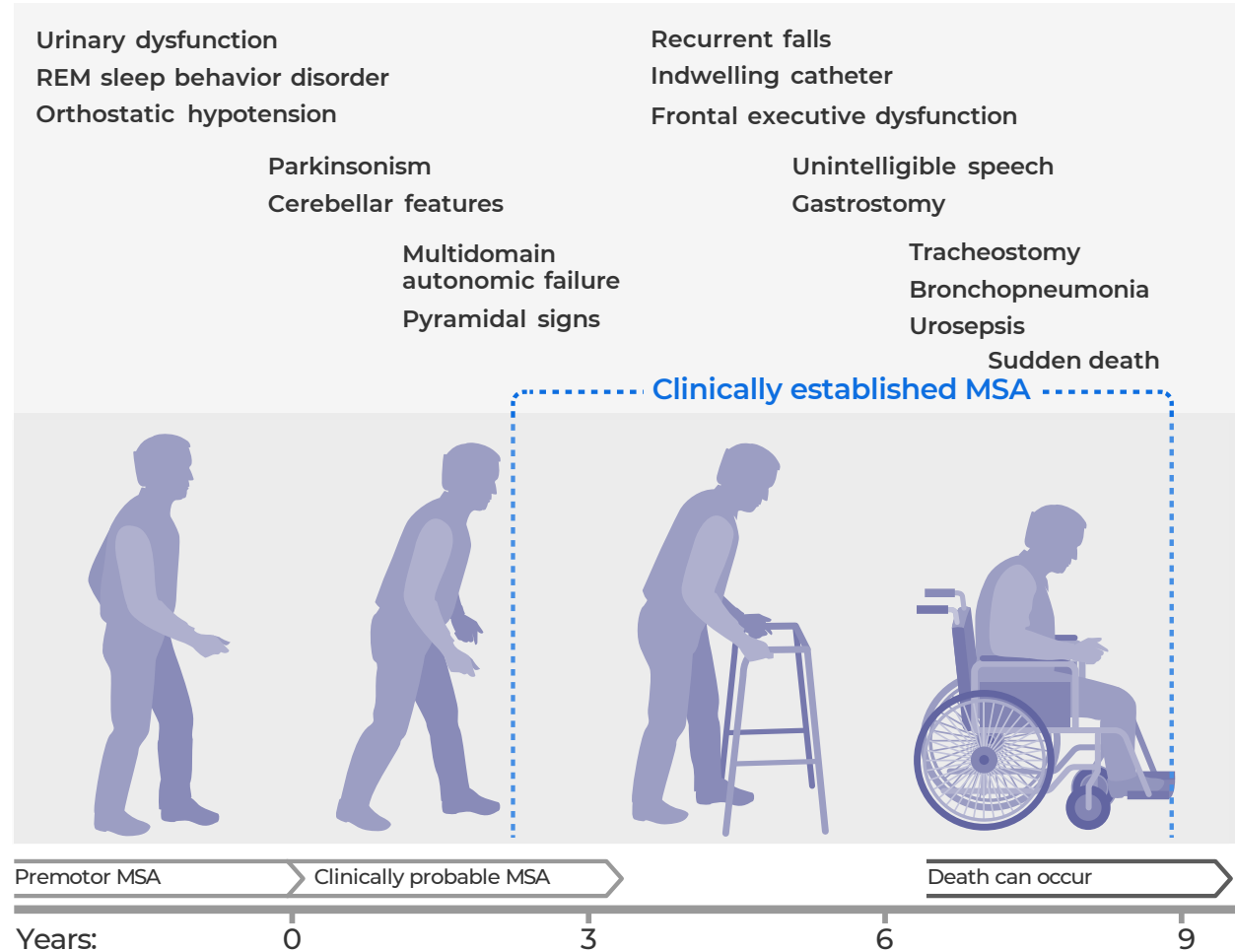
- Motor: Parkinsonism, uncoordinated movements, balance problems, falls
- Autonomic dysfunction: blood pressure maintenance, bladder control, bowel function
- Atrophy and α -synuclein accumulation in multiple brain regions

Over 50%

require wheelchair
in 5 years

7.5 years

median survival
after symptom onset

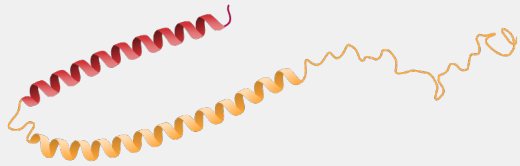


Targeting the pathology in Parkinsonian disorders



Targeting key players in MSA pathology

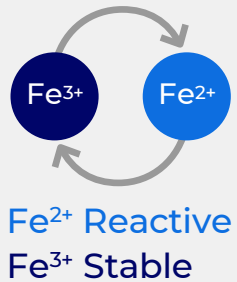
Alpha-synuclein and iron balance in health and disease



α -Synuclein protein

- Present in all neurons
- Enables neuronal communication

In disease: α -Synuclein aggregates in neurons in MSA impairing communication and leading to dysfunction



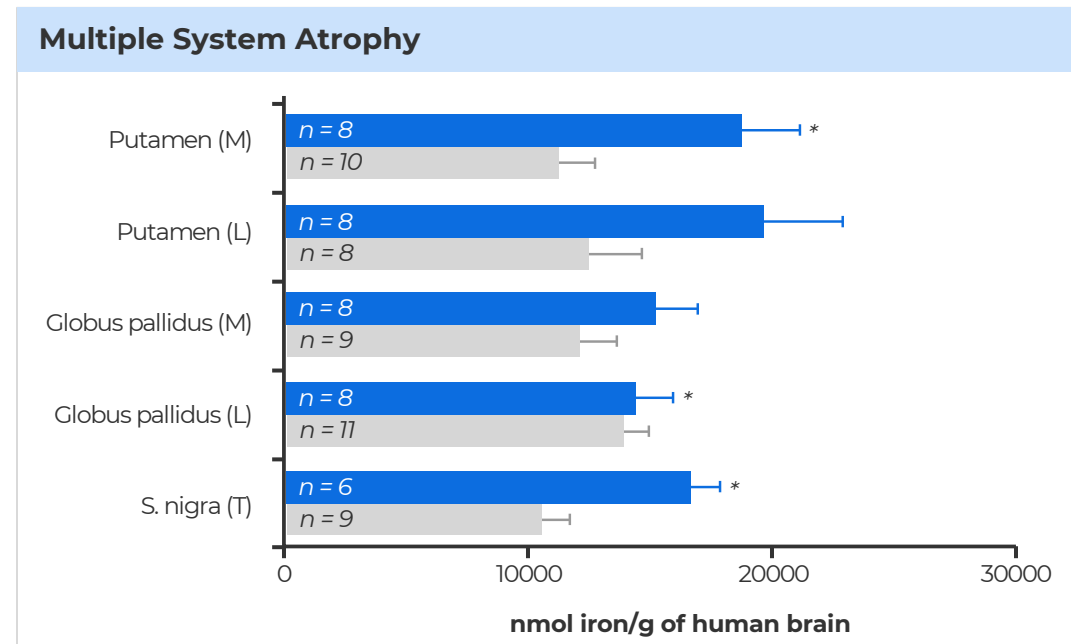
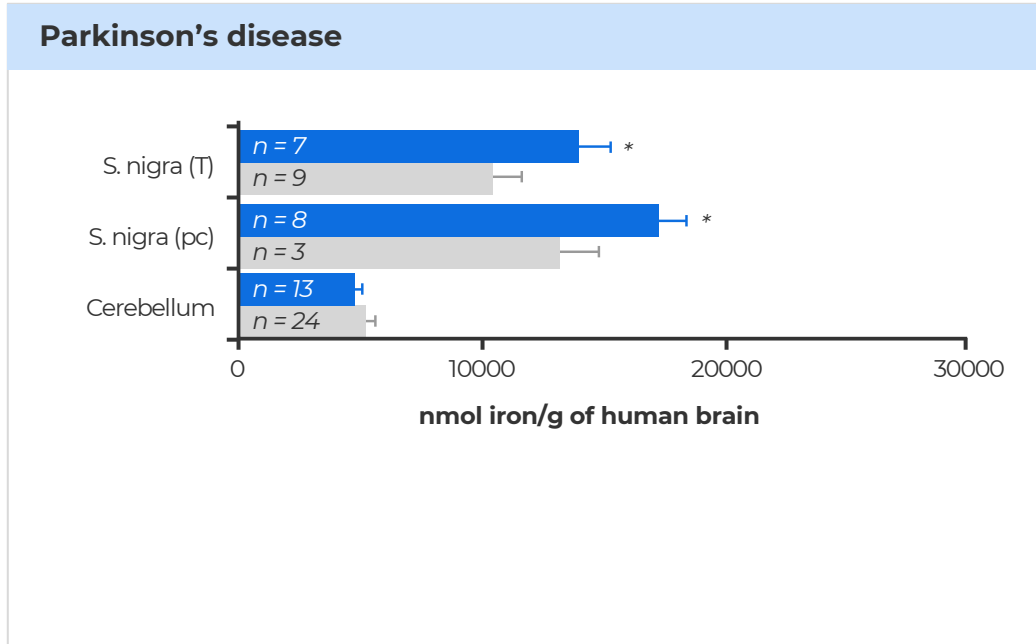
Two forms of iron required for cellular function

- Neurotransmitter synthesis (e.g., dopamine)
- Myelin synthesis (allows fast signal transmission)

In disease: Excess reactive iron drives α -synuclein aggregation and oxidative injury

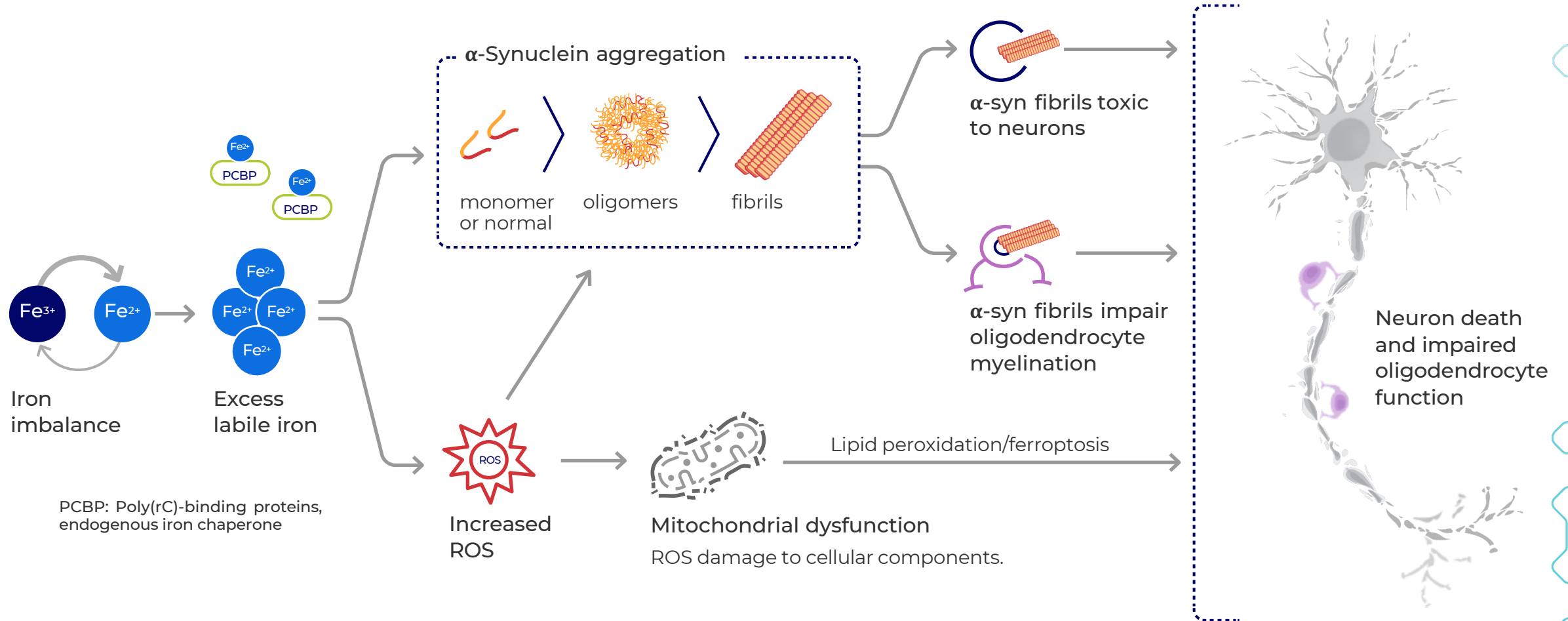
Pathology of Parkinsonian disorders

Increased Brain Iron in Areas of Pathology



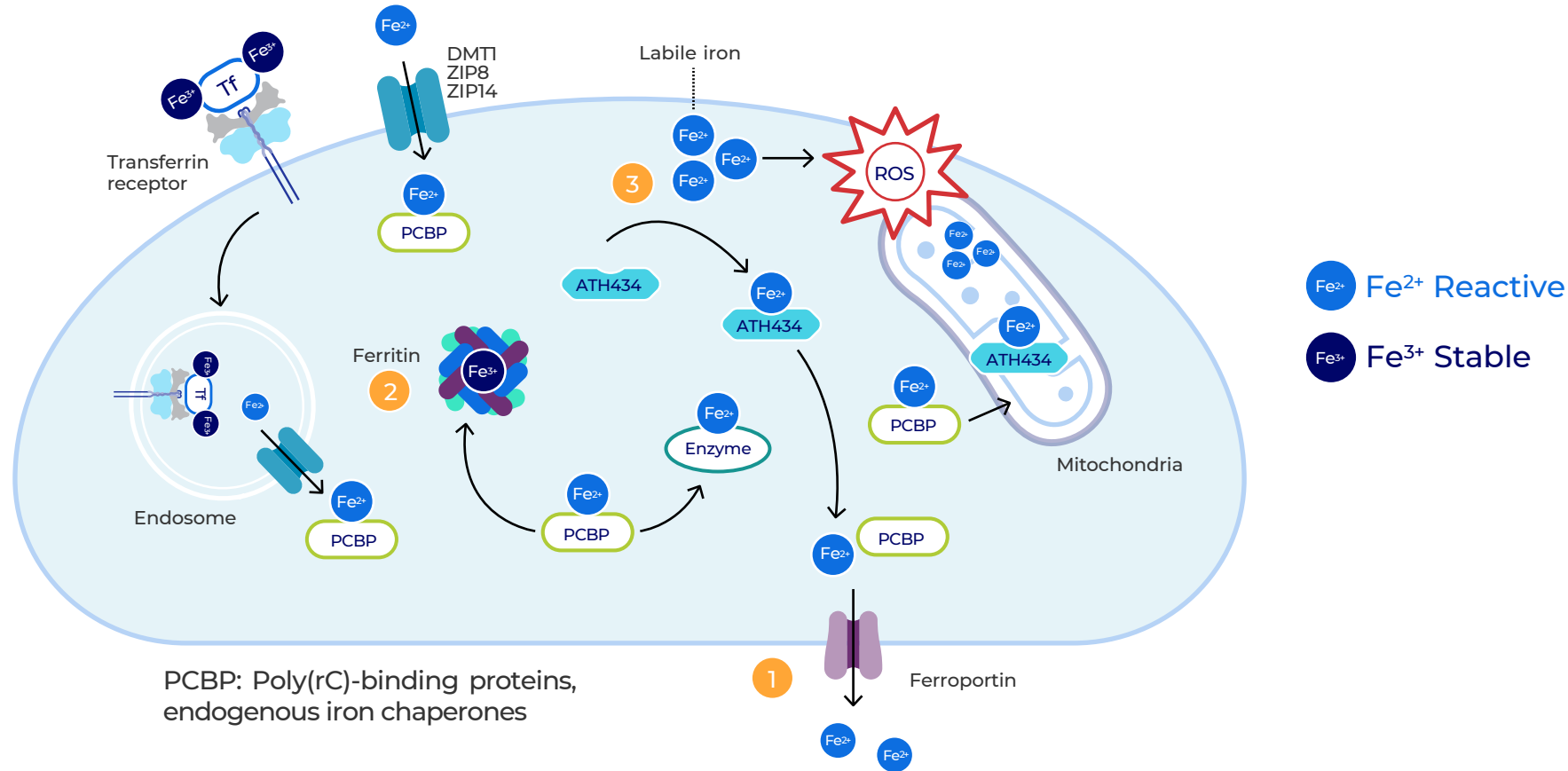
■ Patients ■ Healthy controls

Excess labile iron is a key driver of pathology causing α -synuclein aggregation and oxidative injury



ATH434 mechanism of action: Iron chaperone

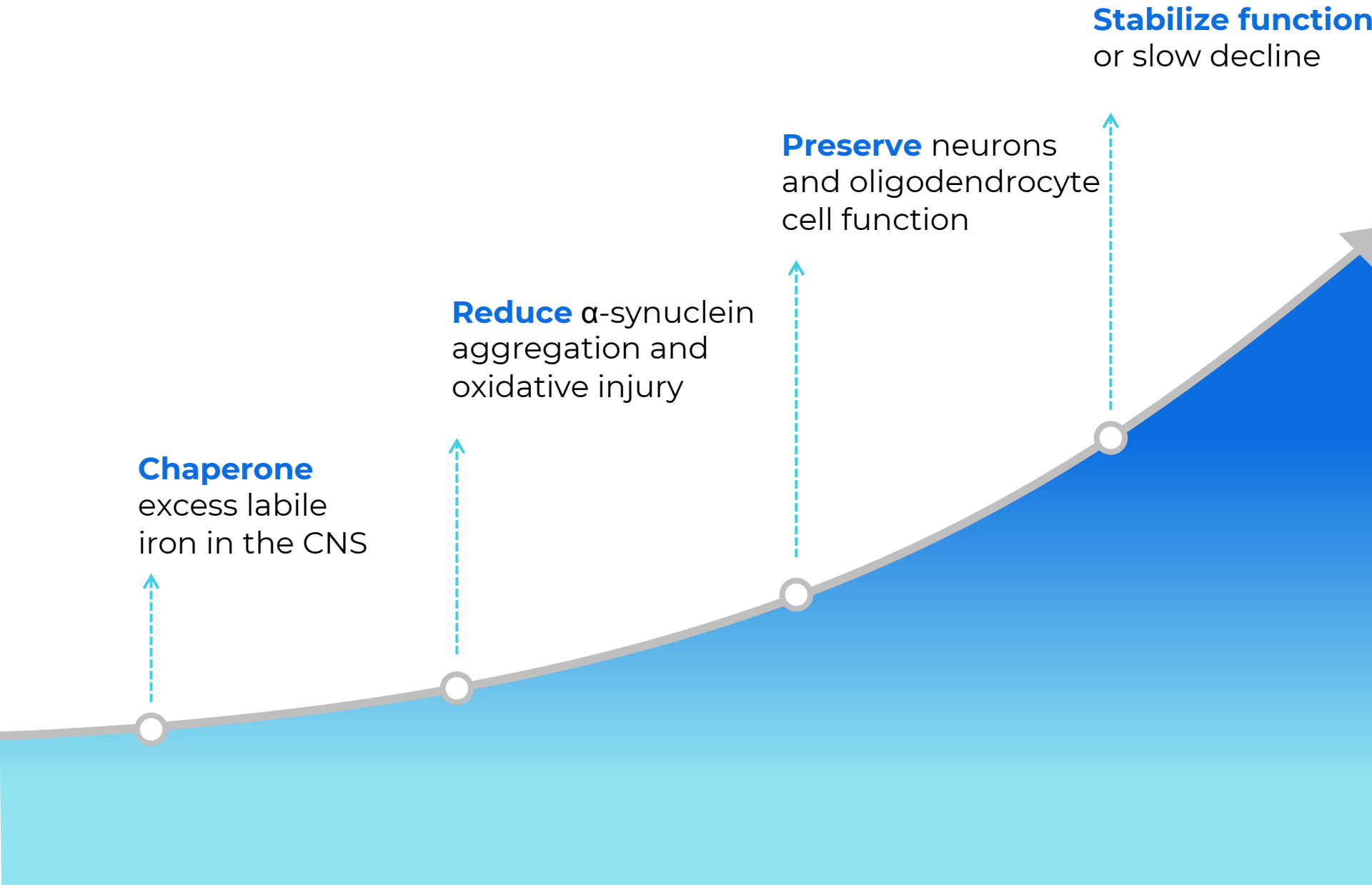
ATH434 chaperones excess labile (reactive) iron to reduce neuronal injury



Chaperone mechanisms:

- 1 Efflux iron from cell (ferroportin)
- 2 Increase iron storage (ferritin)
- 3 Buffering Fe²⁺ in labile iron pool

ATH434 treatment approach addresses underlying pathology

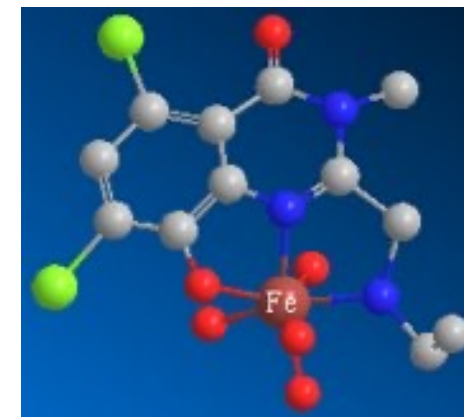


Based on mechanism of action, ATH434 is a potential disease modifying therapy

ATH434: Small molecule drug candidate

- | | | |
|---|----------------------------------|---|
| ✓ | Oral administration | Preferred by patients and doctors vs infusions (IV, intrathecal) or injections |
| ✓ | Blood-brain barrier penetrant | Acts intracellularly to address underlying pathology |
| ✓ | Iron chaperone | Moderate binding affinity, redistributes excess labile iron in CNS |
| ✓ | Broad treatment potential | Potential to treat many neurodegenerative diseases (e.g., Parkinson's, Friedreich Ataxia) |
| ✓ | Orphan & Fast Track designations | US FDA Fast Track Designation and Orphan drug designation in U.S. and EU |

ATH434 binding to labile iron



Multiple models of neurodegenerative disease demonstrate ATH434 efficacy

Target Disease	Model	Midbrain iron (incl. s. nigra)	α -Synuclein	Preserve neurons/ function	Clinical observations
MSA ¹	PLP- α -syn	↓	↓	↑	Improved motor performance
MSA ²	PLP- α -syn	↔ to ↓	↓	↑	Improved motor performance
Parkinson's	Monkey MPTP	↔ to ↓	n/a	↑	Improved motor performance
Parkinson's	Mouse MPTP	↓	↓	↑	Improved motor performance
Parkinson's	Mouse A53T	↓	↓	↑	Improved motor performance
Parkinson's	Mouse tau knockout	↓	↓	↑	Improved motor performance

↔ Stable

ATH434 consistently improved motor performance by reducing α -synuclein aggregation and preserving neurons



ATH434 clinical development program in MSA

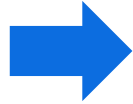
Diligent approach to de-risk development program

Natural History Study

bioMUSE

Identified biomarkers to improve accuracy of patient selection

- Observational study in 21 participants with clinically probable MSA, followed prospectively
- Designed to de-risk clinical development program



Phase 2 · Randomized, Double-blind

ATH434-201

Clinically meaningful efficacy on MSA rating scale, orthostatic hypotension and disease severity

- Randomized, double-blind, placebo-controlled trial
- Favorable safety profile

Phase 2 · Open Label

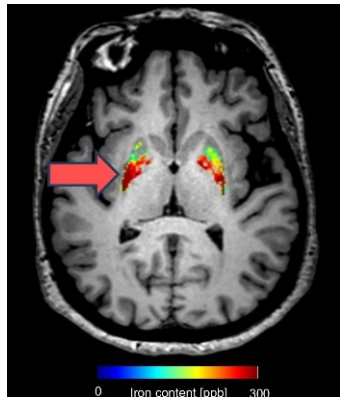
ATH434-202

Showed improved neurological symptoms in more advanced participants

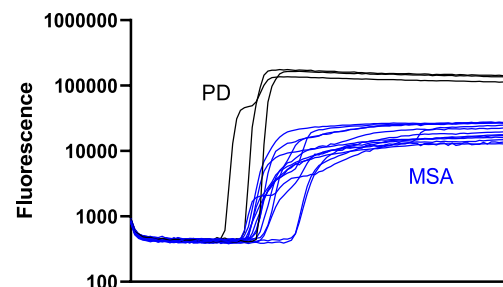
- Open label trial in advanced MSA participants
- Favorable safety profile

Optimized patient selection in Phase 2 trials

Advanced MRI methods



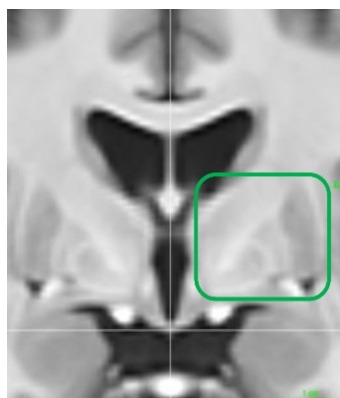
α -synuclein SAA in CSF



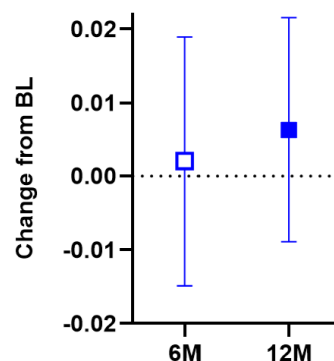
- ✓ Identified "iron signature" of early MSA
- ✓ Differentiated MSA from Parkinson's disease (PD)
- ✓ Revised selection criteria in ATH434-201 and ATH434-202 protocols to exclude PD patients

Precision biomarker assessment

Structural mapping



Iron content in pallidum



- ✓ Improved precision of volume measurements
- ✓ Novel strategies for measuring brain iron in individual regions
- ✓ State of the art methods enabled precise measurements of brain iron and volume with MRI

ATH434-201: Randomized, double-blind, placebo-controlled study

ATH434-201

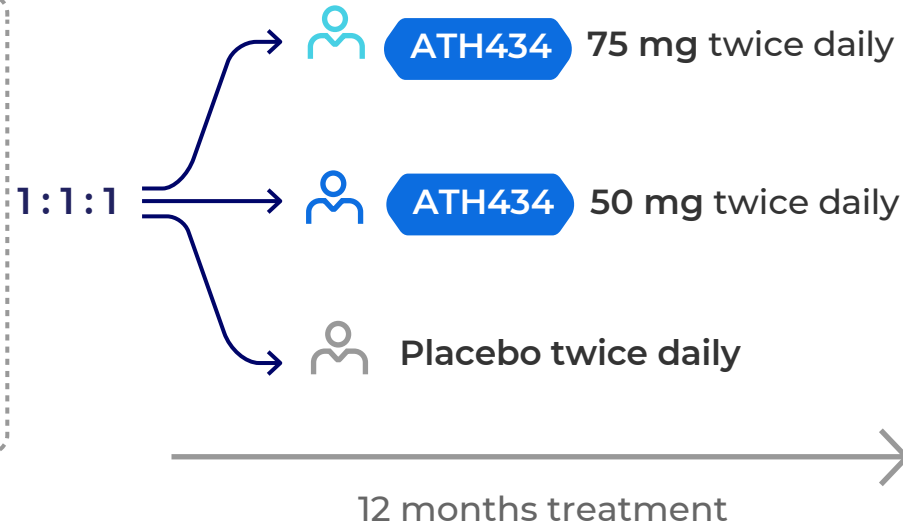
Patient criteria:



N = 77

- Clinical diagnosis of MSA
- Motor symptoms ≤ 4 years
- No severe impairment
- Elevated brain iron on MRI
- Elevated plasma NfL

Study design:



Endpoints:



Key clinical endpoint:
MSA Rating Scale



Additional secondary endpoints:
CGI-S, OHSA, Wearable Sensors,
Safety



Key biomarker endpoint:
brain iron content by MRI

Importance of the Unified MSA Rating Scale Part I (UMSARS I)

ATH434-201

UMSARS Part I Items:

- | | |
|------------------------------------|--|
| ☐ Speech | ☐ Walking |
| ☐ Swallowing | ☐ Falling |
| ☐ Handwriting | ☐ Orthostatic symptoms |
| ☐ Cutting food | ☐ Urinary function |
| ☐ Dressing | ☐ Bowel function |
| ☐ Hygiene | ☐ Sexual function^ |

Rated from 0 to 48
higher scores worse

UMSARS is the FDA endorsed endpoint to support approval for the treatment of MSA

Primary endpoint in Phase 3

Validated rating scale to assess MSA disease severity
Rates functional impairment in domains affected in MSA

Baseline characteristics

ATH434-201

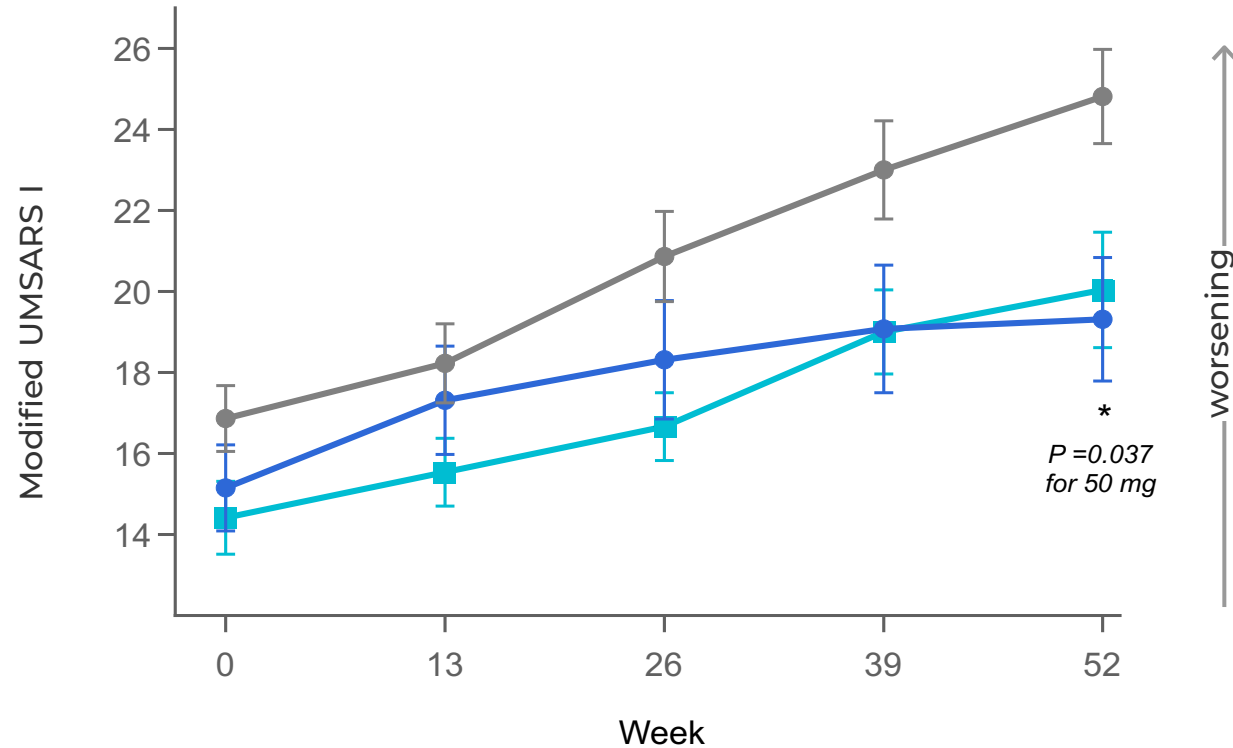
	Placebo  N=22	ATH434-201 50 mg twice daily  N=25	ATH434-201 75 mg twice daily  N=24
Age (y)	61.3 (6.6)	63.1 (6.1)	63.9 (6.7)
Gender (% male)	63.6%	52.0%	62.5%
Duration of motor symptoms (y)	2.5 (0.8)	2.6 (0.8)	2.3 (0.9)
Modified UMSARS I	16.9 (3.9)	15.2 (5.4)	14.4 (4.4)
Motor score of Parkinson plus scale ¹	57.6 (14.2)	47.8 (18.4)	48.9 (16.8)
Plasma NfL (pg/mL)	34.9 (12.5)	31.1 (9.1)	32.3 (9.0)
CSF aggregating α -syn SAA (+)	91%	92%	96%
OH symptom assessment	13.5 (9.8)	13.8 (13.2)	15.0 (12.2)
Clinical phenotype: MSA-P (%)	59.1%	60.0%	70.8%
Severe orthostatic hypotension ²	4.5%	4.0%	29.2% 

Groups balanced at baseline except for severe orthostatic hypotension (OH)

OH is a predictor of rapid disease progression

Clinically Significant Efficacy on 11-Item UMSARS I

ATH434-201



Change from Baseline to Week 52

Placebo N=22	Difference v. placebo LS mean (SE)	Relative treatment effect
ATH434 50 mg N=25	-3.7 (1.7)	46%
ATH434 75 mg N=24	-2.7 (1.8)	34%

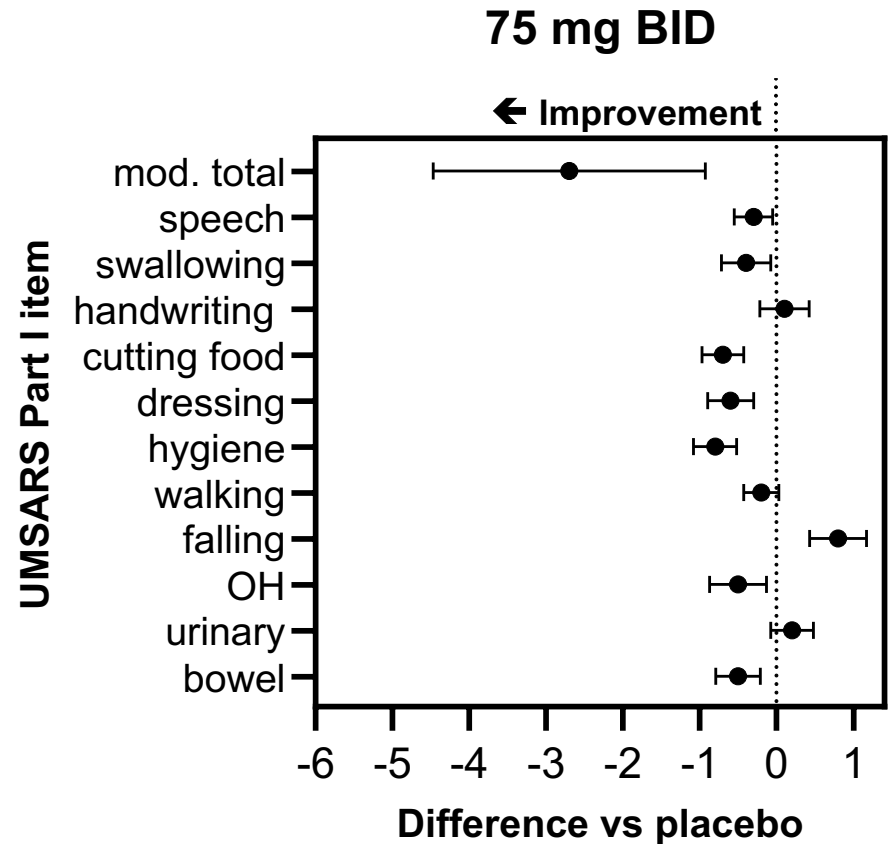
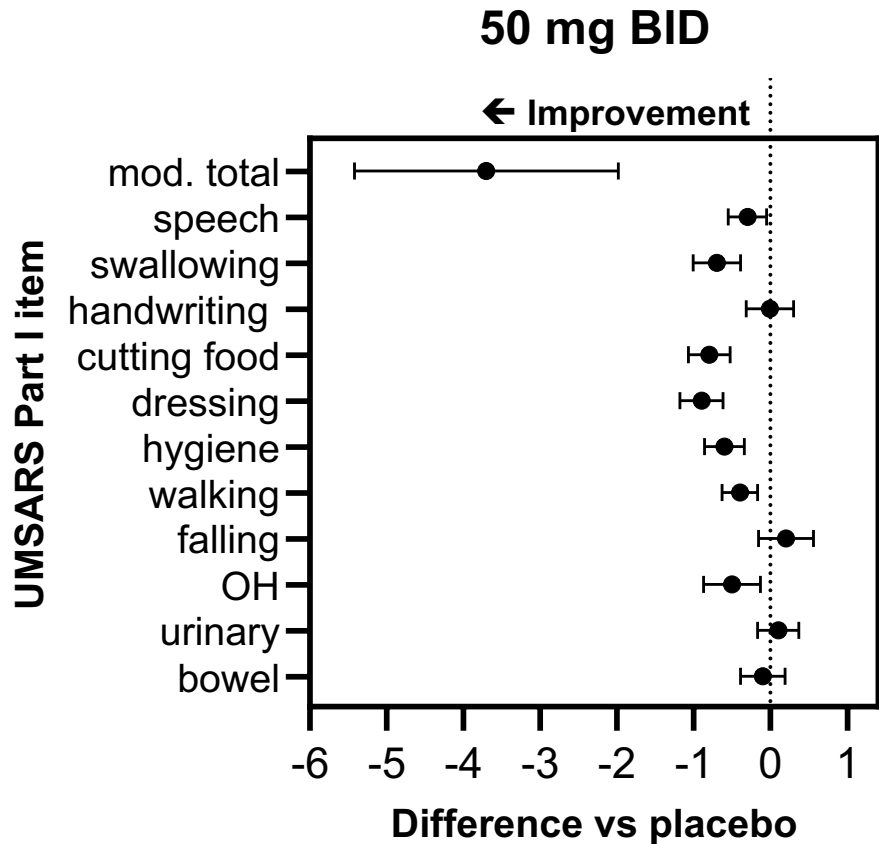
Both doses exceeded the MCID

Minimal clinically important difference (MCID) on UMSARS I¹ = -1.5

$$\text{Relative Treatment Effect:} \\ \frac{\text{Change}_{\text{ATH434}} - \text{Change}_{\text{Placebo}}}{\text{Change}_{\text{Placebo}}}$$

Consistent efficacy across multiple domains on 11-item UMSARS

ATH434 treatment demonstrates a similar pattern of efficacy in both dose groups vs. placebo at 52 weeks

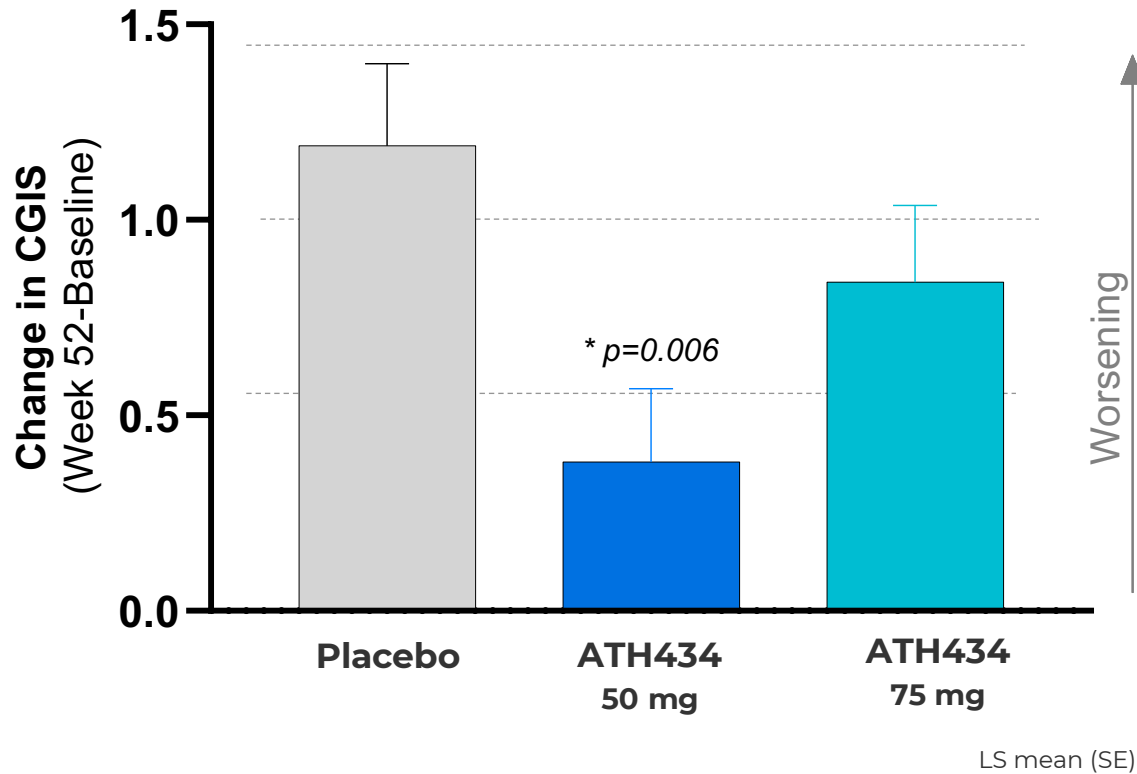


LS mean (SE)

Achieved Efficacy on Clinical Global Impression of Severity

Clinician Reported Outcome

ATH434-201



CGI-S

- 7-point scale
- higher score indicates a worse outcome

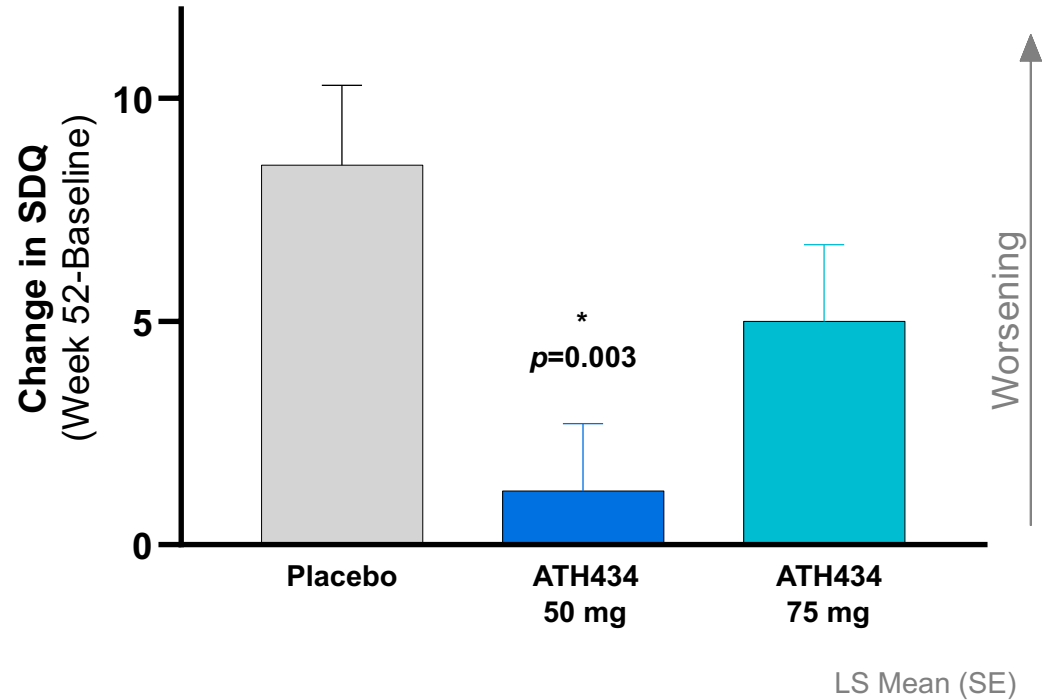
Assesses total picture over prior 28 days

- illness severity, impact of illness on function, level of distress and any other aspects of impairment

Achieved Efficacy on Swallowing Disturbance Questionnaire

Patient Reported Outcome

ATH434-201



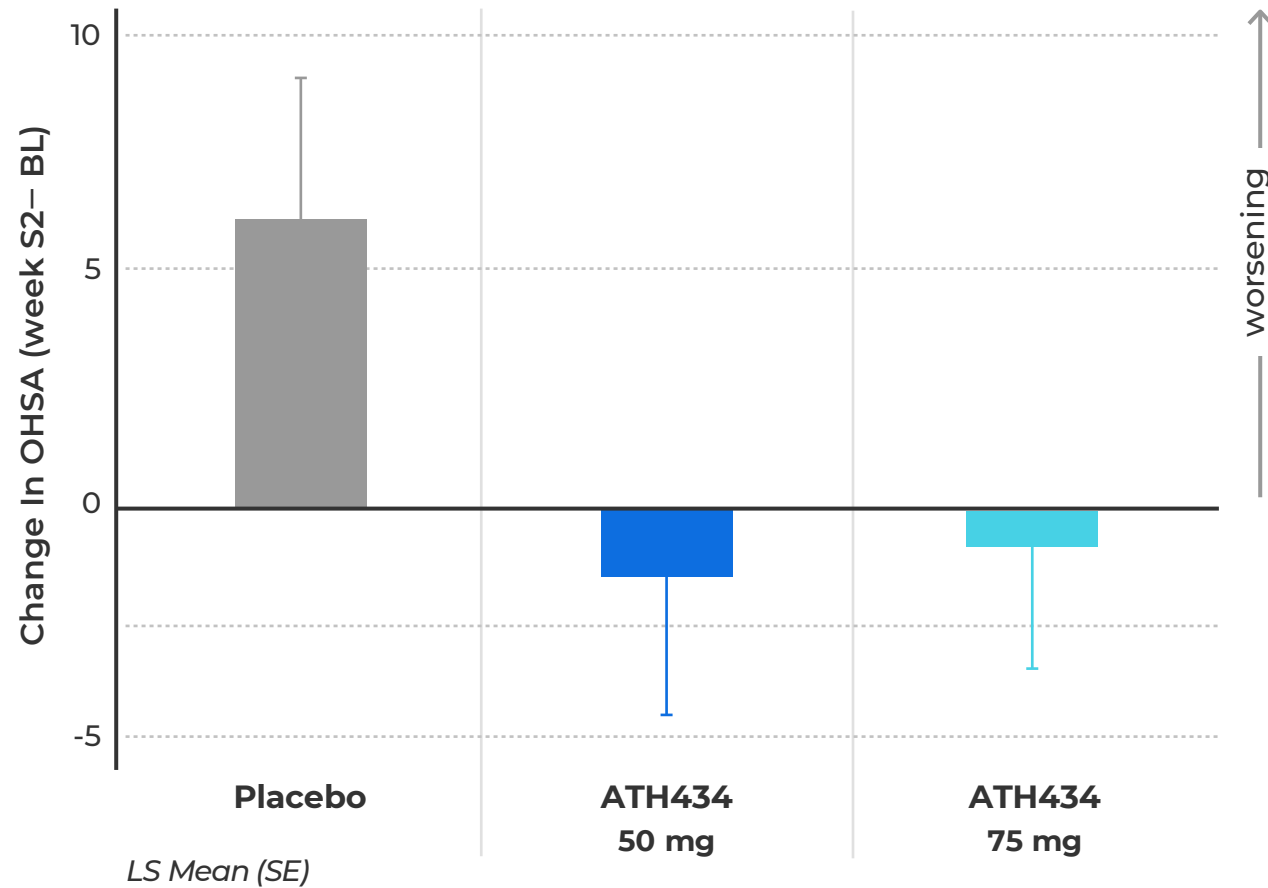
Validated Scale for Detecting Dysphagia

15-item questionnaire that assesses swallowing impairment (choking, coughing when drinking liquids, etc.)

Improvement on Orthostatic Hypotension Symptom Assessment (OHSA)

ATH434-201

Patient Reported Outcome

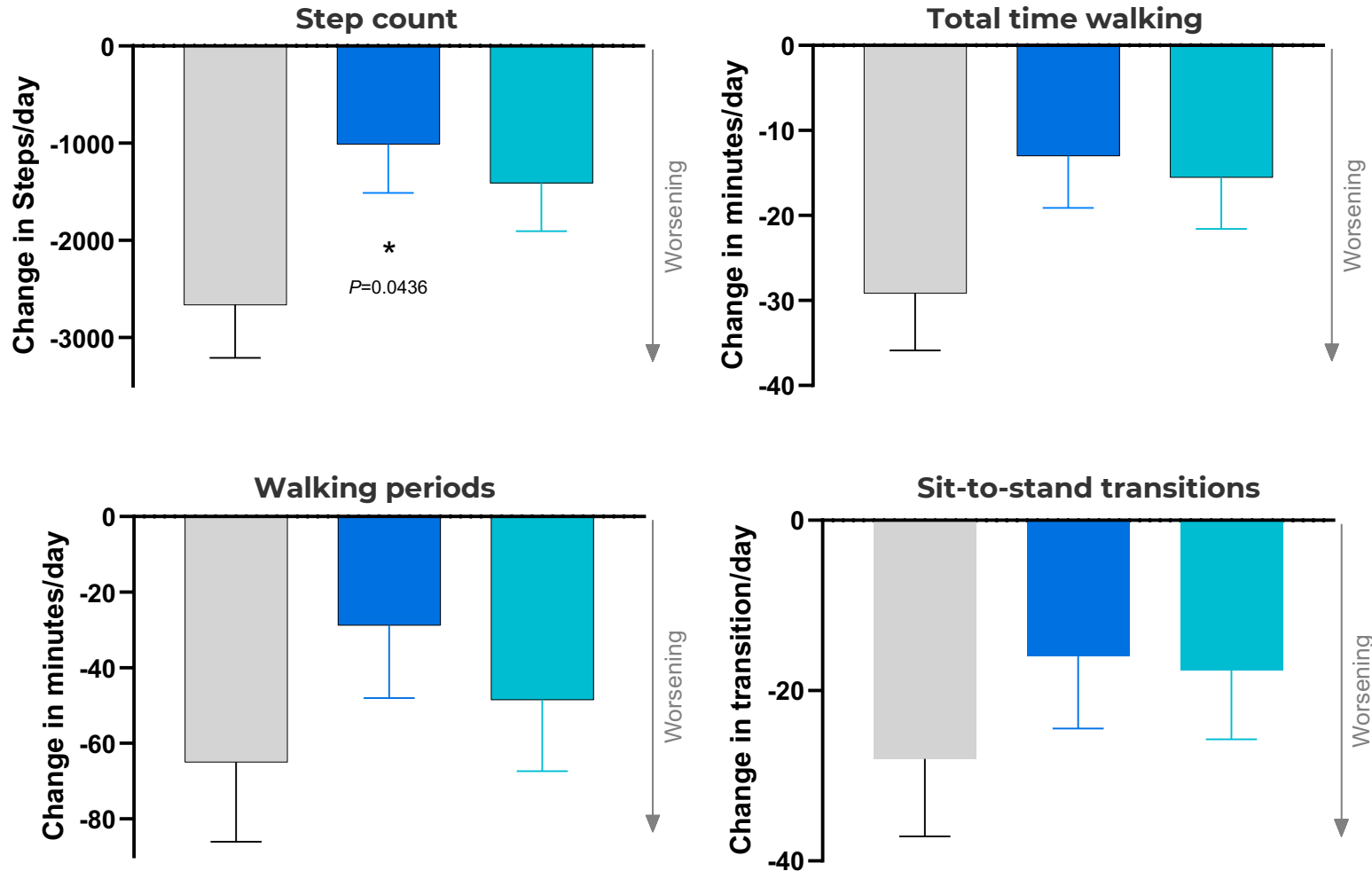


Assesses symptoms of low blood pressure when going from sitting to standing (e.g., dizziness / feeling faint / lightheadedness)

ATH434 preserved walking in outpatient setting

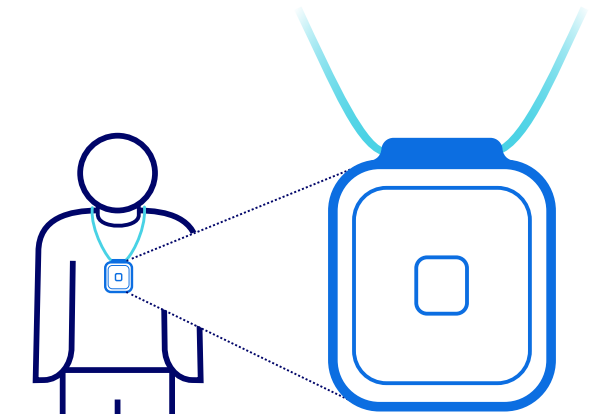
Change from baseline to Week 52

ATH434-201



Placebo
ATH434-201 50 mg
ATH434-201 75 mg

Pendant
Wearable movement sensor



Favorable safety profile for ATH434

ATH434-201

	Placebo twice daily  N=26	ATH434-201 50 mg  N=25	ATH434-201 75 mg  N=26
N (%) of subjects ¹			
Any Adverse Event (AE)	24 (92.3%)	21 (84.0%)	25 (96.2%)
UTI	14 (53.8%)	10 (40.0%)	7 (26.9%)
Fall	8 (30.8%)	7 (28.0%)	8 (30.8%)
Covid-19	1 (3.8%)	6 (24.0%)	4 (15.4%)
Fatigue	2 (7.7%)	1 (4.0%)	5 (19.2%)
Back pain	1 (3.8%)	3 (12.0%)	2 (7.7%)
Severe AEs ²	8 (30.8%)	3 (12.0%)	6 (23.1%)
Serious AEs ²	10 (38.5%)	5 (20.0%)	7 (26.9%)

- Similar rates of AEs in ATH434 and placebo participants
- No severe or serious AEs related to study drug
- No hematologic side effects

1 - Reporting one or more event
2 - None related to Study Drug



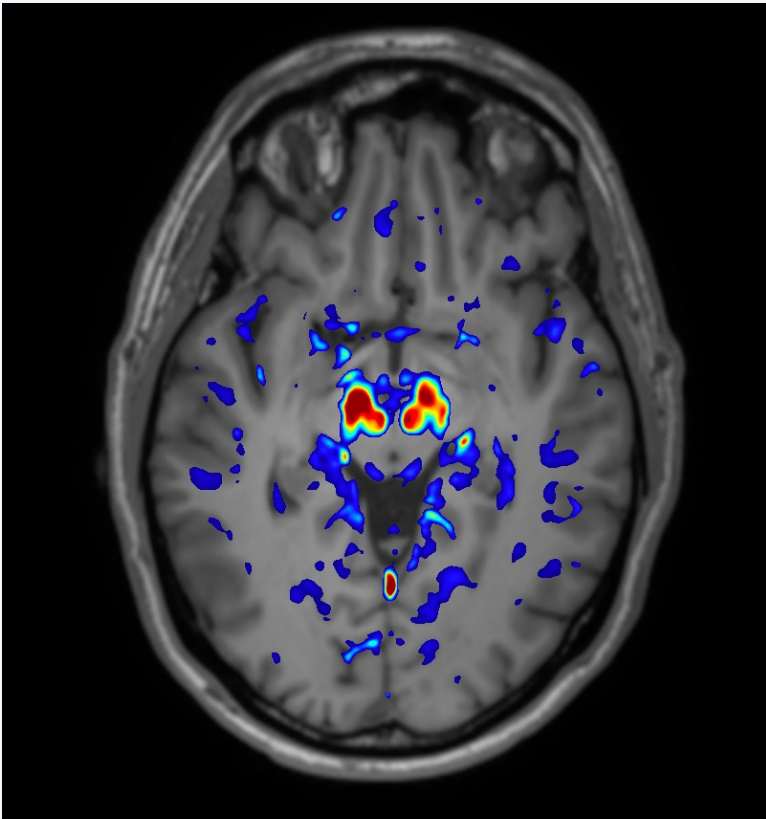
Neuroimaging

Measuring Iron Content with MRI (QSM)

Regional increases in iron in MSA Patient

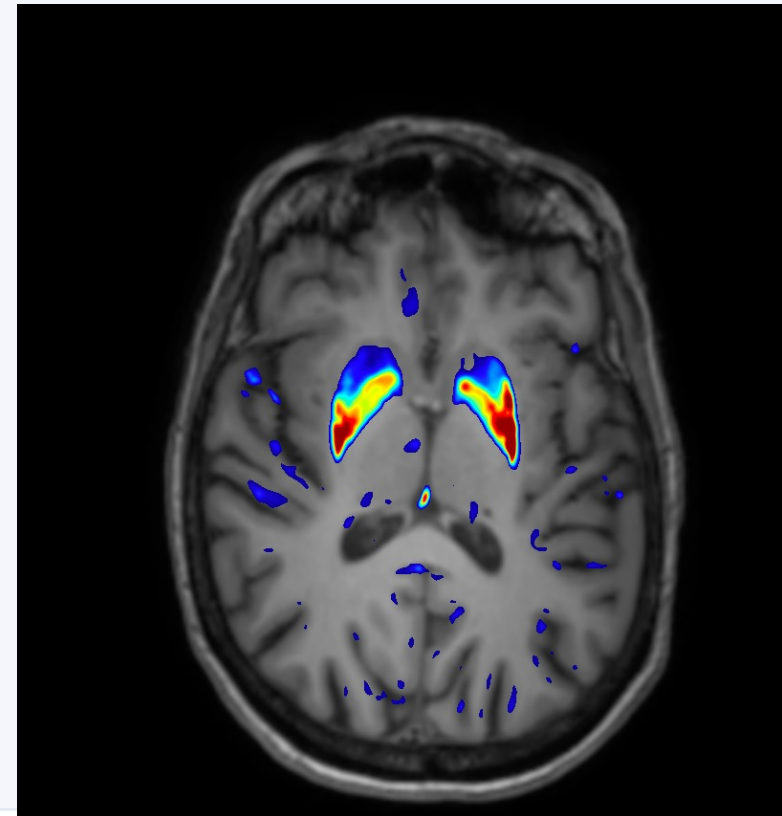
Substantia Nigra

Midbrain axial view

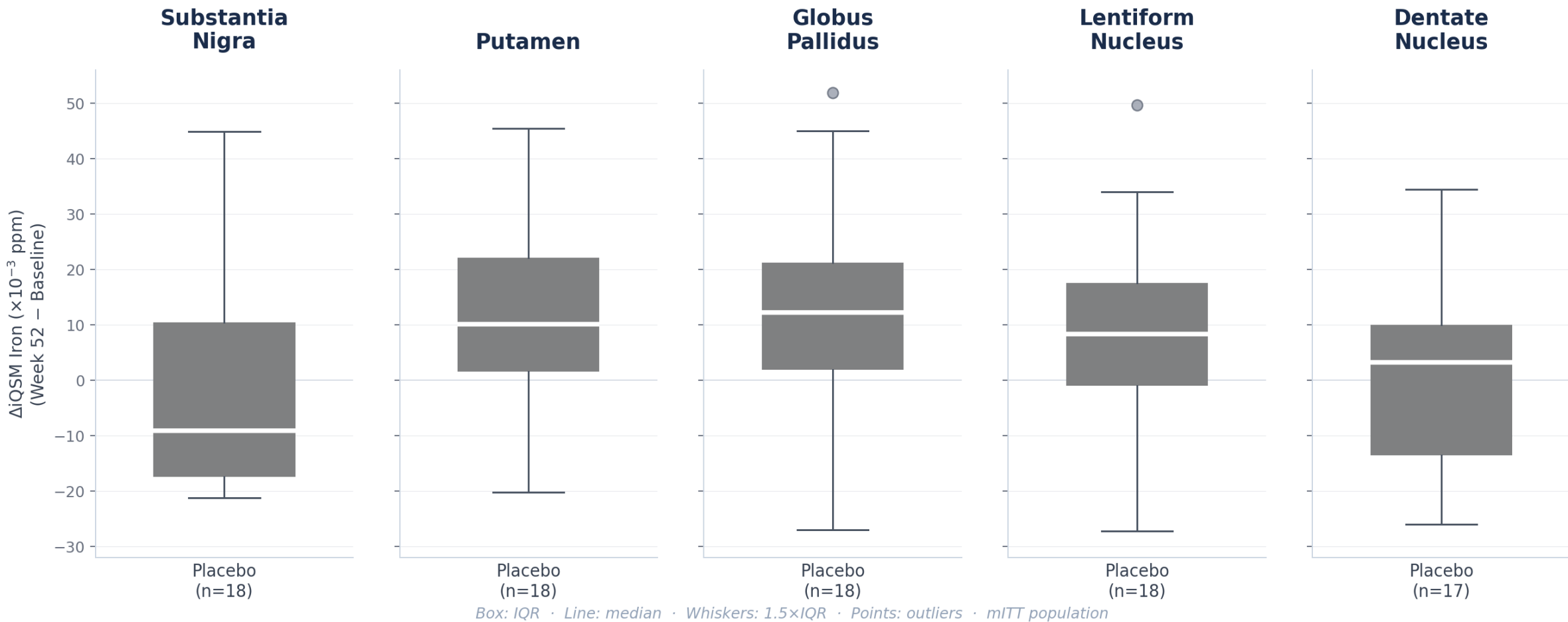


Putamen / Globus Pallidus

Basal ganglia axial view



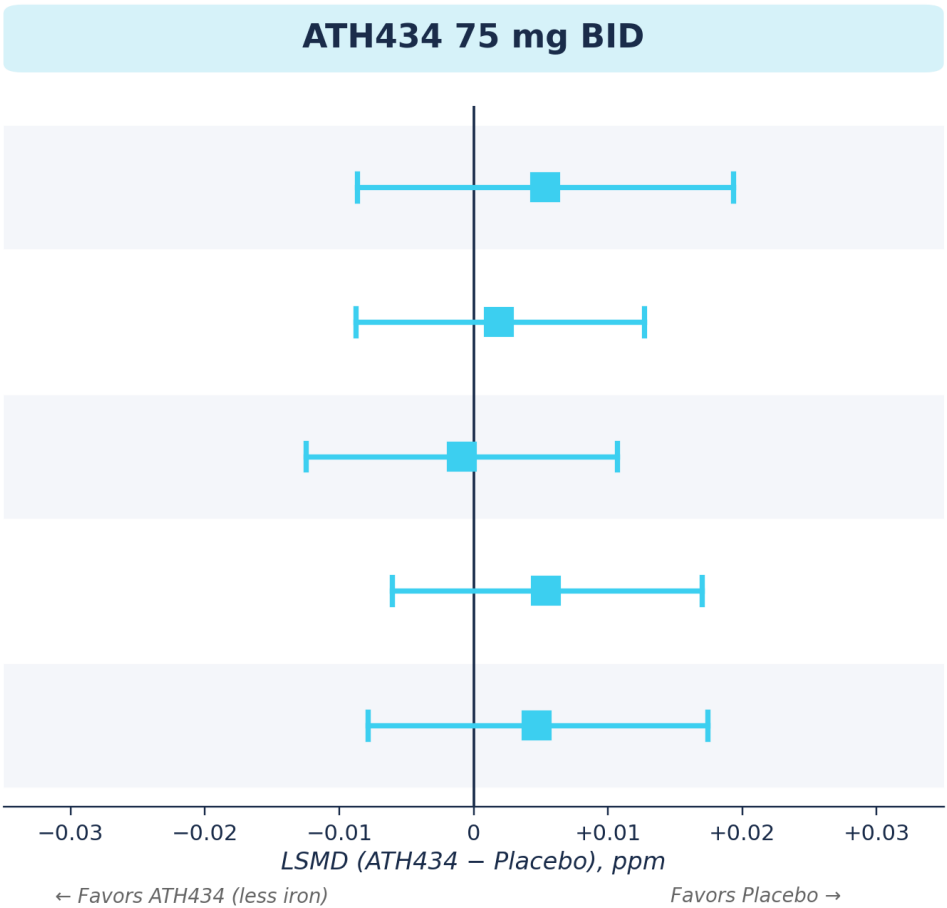
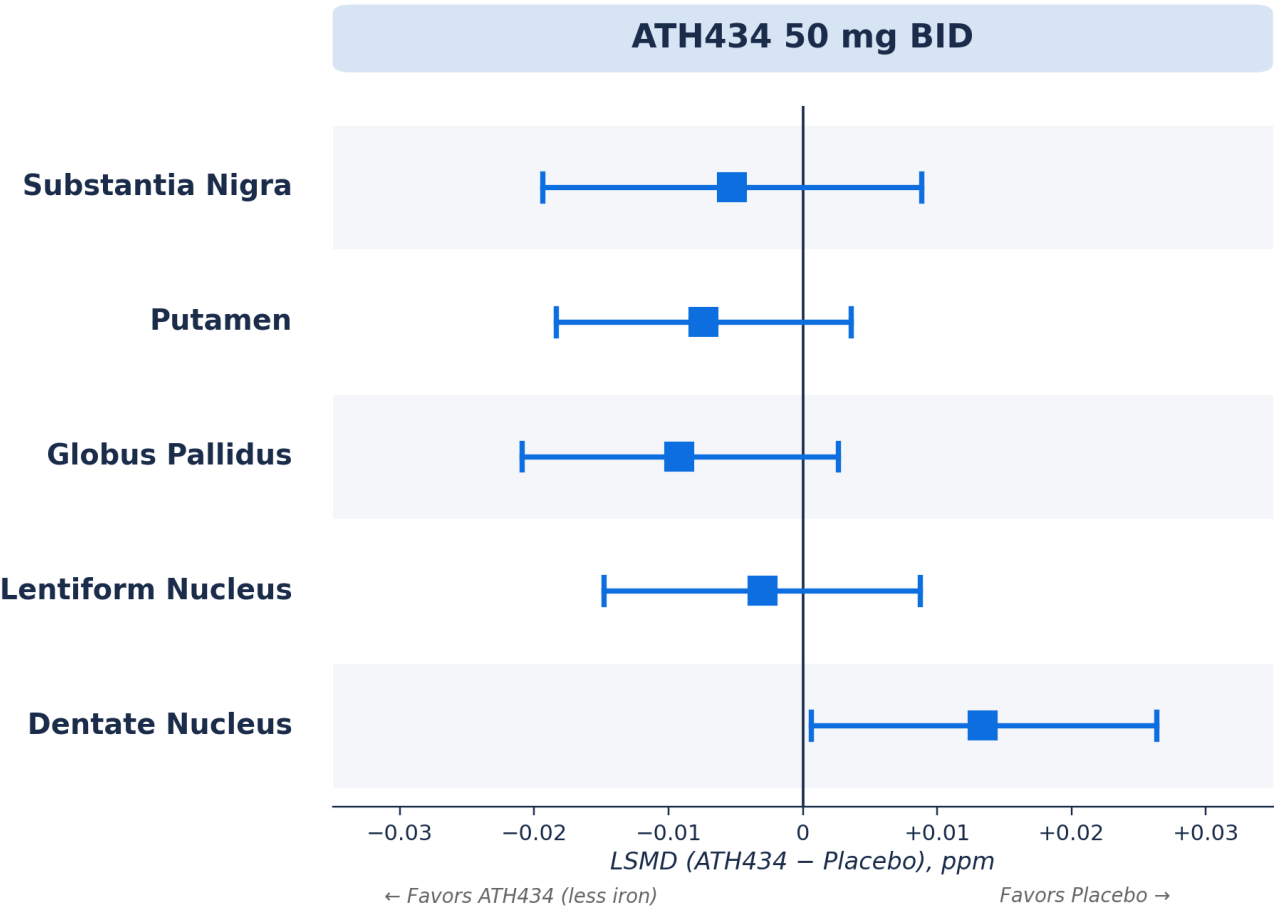
Iron Deposition on MRI in Placebo: Change Baseline → Week 52



Mean ± 95% CI

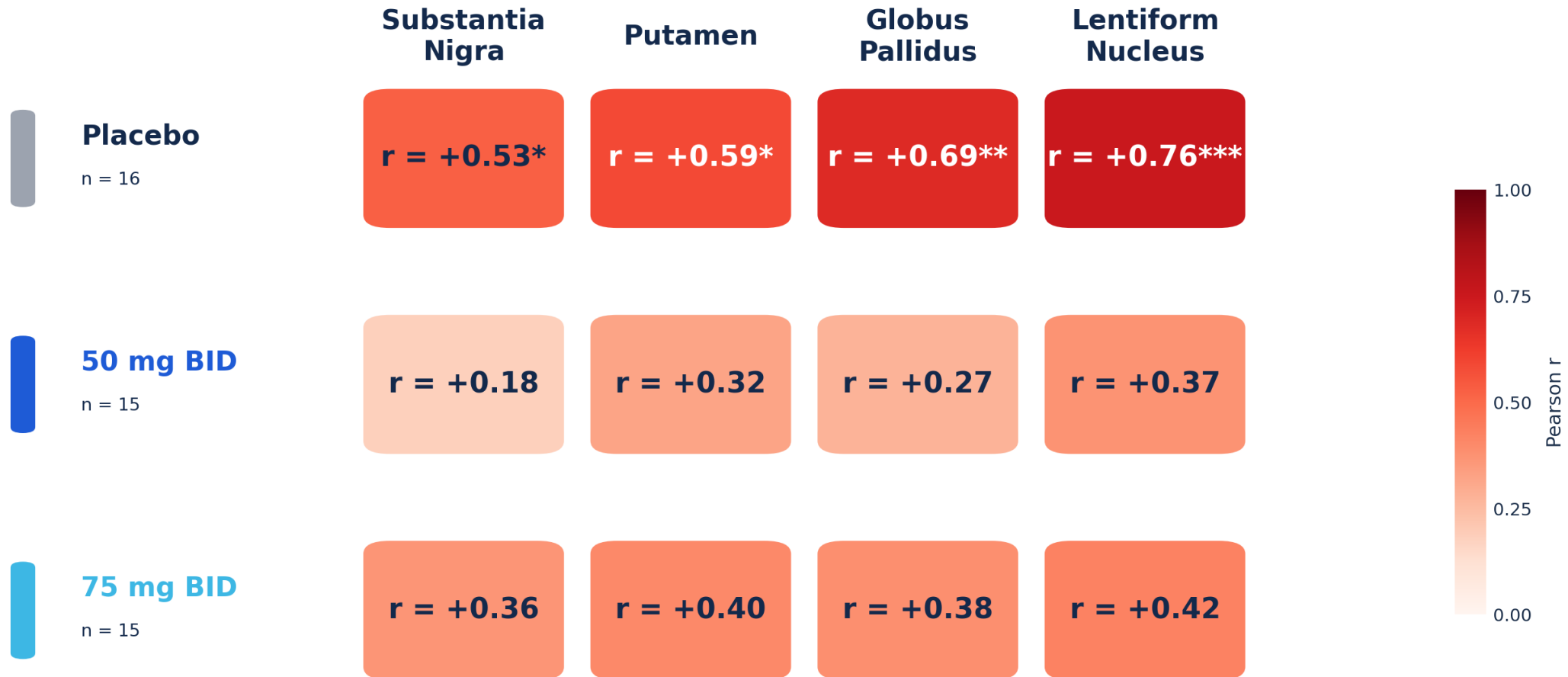
Iron Deposition on MRI: ATH434 vs. Placebo

ATH434-201



ATH434 decouples iron accumulation from clinical worsening

Correlation Between Change in Iron and Change in UMSARS I Score at Week 52



† $p < 0.10$ * $p < 0.05$ ** $p < 0.01$ *** $p < 0.001$ | Residual partial correlation

Summary: ATH434 Interrupts the Pathologic Process in MSA

Iron builds up in the basal ganglia of MSA patients, most prominently in the globus pallidus and putamen.

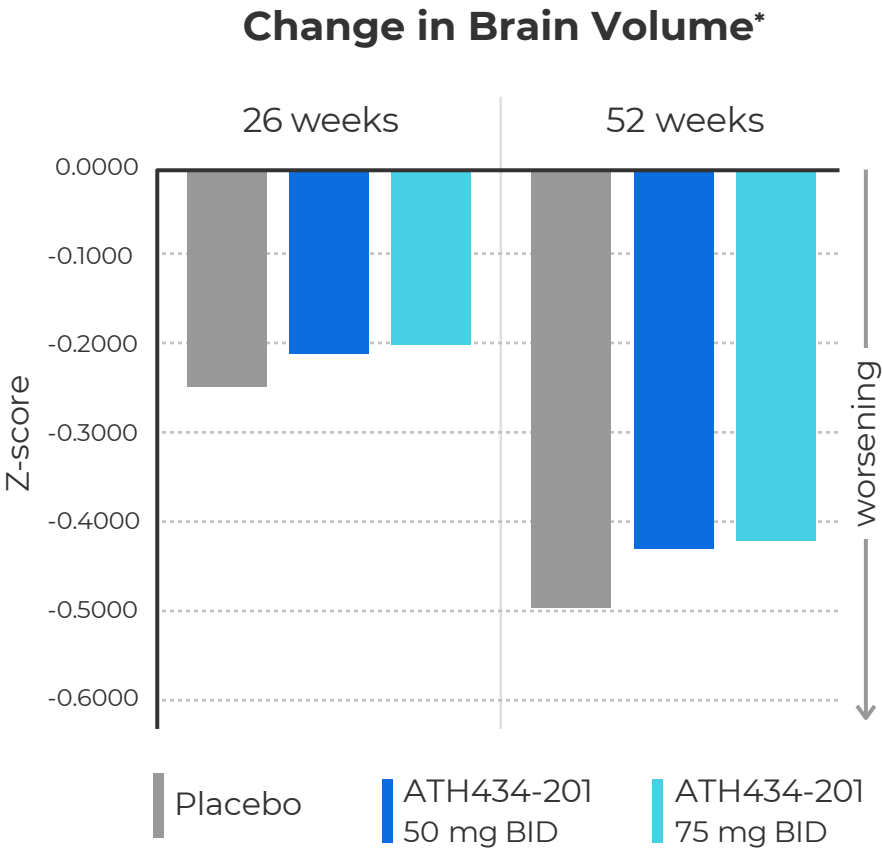
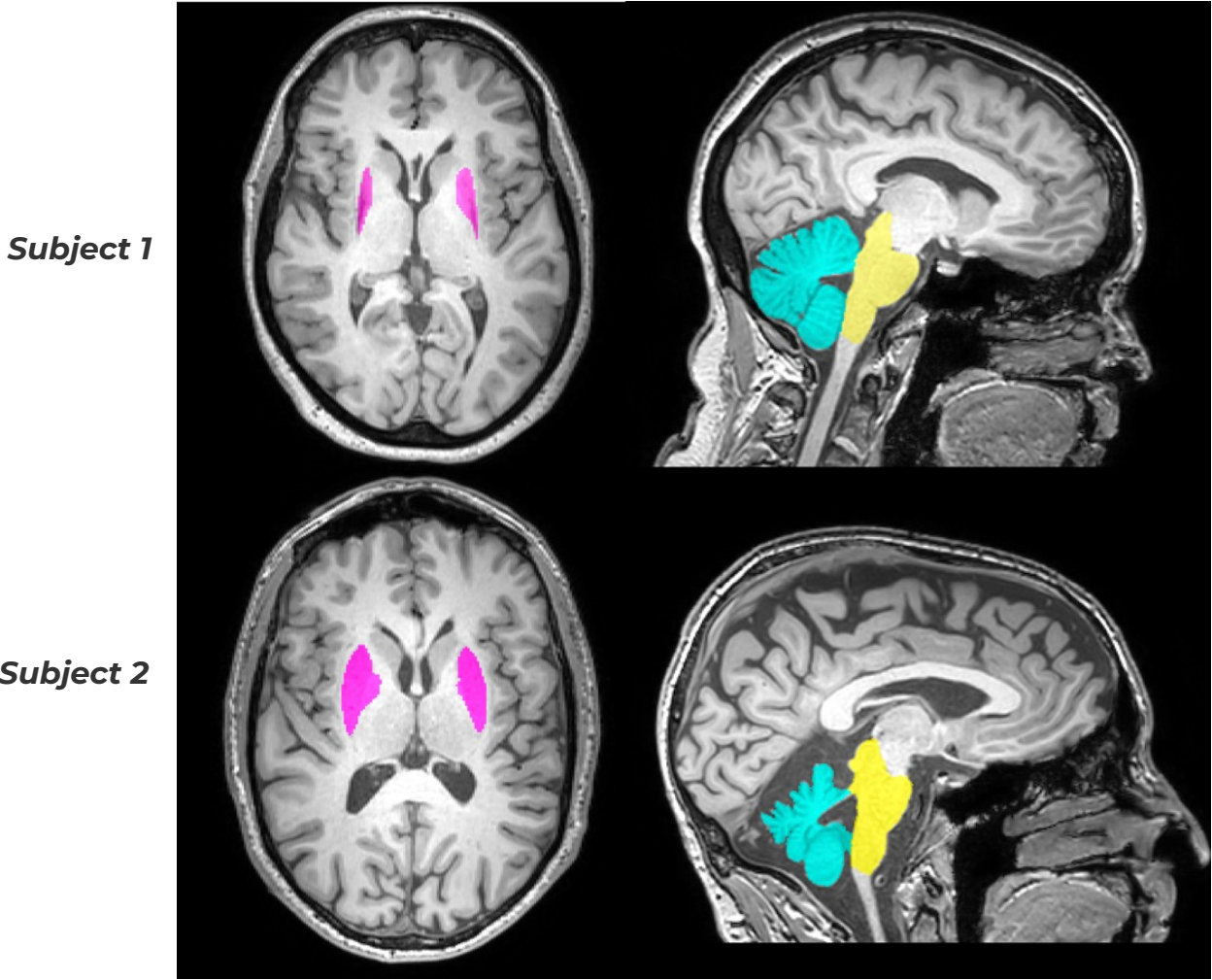
QSM allows quantitation of total brain iron but does not distinguish between reactive (toxic in excess) and stable forms of iron.

In placebo-treated patients, change in iron strongly correlates with change in disease severity.

In ATH434-treated patients, change in iron weakly correlates with change in disease severity.

**ATH434 leads to a
decoupling of iron accumulation
and clinical worsening as assessed by
UMSARS I**

ATH434 showed trends in preserving brain volume in MSA Regions of Interest



Carefully designed Phase 2 program demonstrates potential for ATH434 in MSA

ATH434 demonstrated clinically significant efficacy in slowing disease progression in MSA



Both dose levels efficacious on 11-Item UMSARS and important secondary endpoints



Demonstrated target engagement with reduced iron accumulation in MSA affected brain regions



Stabilized orthostatic hypotension, one of the most challenging MSA symptoms to manage



Preserved walking in outpatient setting as measured with objective digital biomarker



Open-label trial showed comparable safety and efficacy in advanced MSA



No safety signals and well-tolerated
No serious AEs related to study drug

Successful End-of-Phase 2 meeting with FDA alignment on on key elements of the Phase 3 design

Primary endpoint:	Selection and scoring of the 11-Item UMSARS Part I
Population:	~200 patients with clinical and biomarker evidence of MSA
Dosing regimen:	50 mg dose administered twice-daily for 12 months
Key secondary endpoints:	Swallowing Disturbance Questionnaire (SDQ), Orthostatic Hypotension Symptom Assessment (OHSA), and the Clinical Global Impression of Severity (CGIS)
Statistics:	Methods for analyzing primary and secondary efficacy endpoints acceptable
Safety database:	Anticipated safety database at the conclusion of Phase 3 reasonable

FDA alignment on Phase 3 trial design

Expect to initiate trial activities by YE 2026

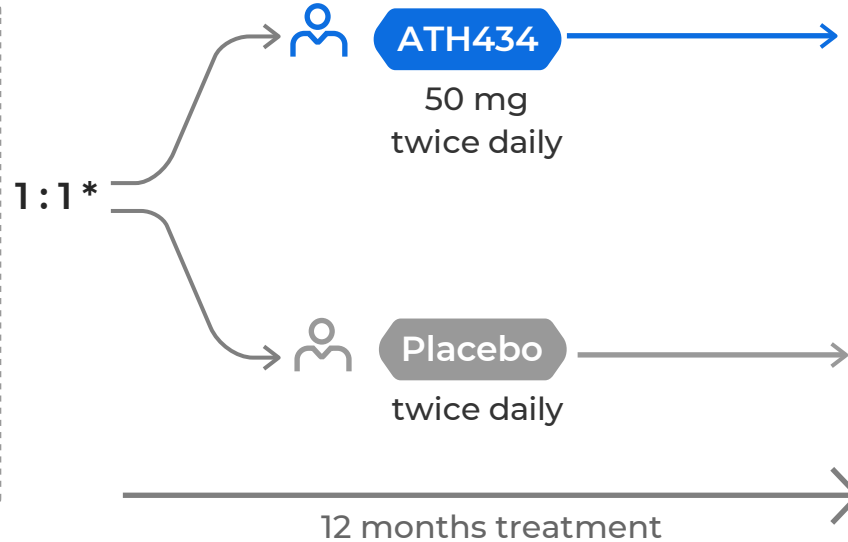
Patient criteria:



N = ~200

- Clinical diagnosis of MSA
- Ambulatory without assistance
- No severe impairment
- Brain atrophy in MSA affected regions on MRI
- Elevated plasma NfL

Study design:



* Randomization stratified by screening plasma NfL

Efficacy Endpoints:



Primary endpoint

Selection and scoring of the 11-Item UMSARS Part I



Key Secondary endpoints

SDQ, OHSA, CGIS



Efficacy Analysis

Includes baseline CSF NfL as covariate



Commercial assessment & corporate overview

Independent commercial assessment in MSA

Target product profile based on positive Phase 2 data



Strong Intent to Prescribe

Over 70% of neurologists were “extremely likely” or “very likely” to prescribe ATH434 based on its profile



Substantial Unmet Need

Severely debilitating illness with no approved treatment ripe for new entrants

Critical need for a tolerable, disease modifying therapy



Targeted Mechanism of Action

Importance of inhibiting α -synuclein aggregation to address the underlying pathology of disease



Efficacy is the Key Driver

Slowing disease progression is key driver of physician interest

Stabilizing orthostatic hypotension[^], one of the most challenging symptoms in MSA, strongly positions ATH434

USD \$2.4 Billion

Potential worldwide annual peak sales for ATH434 in MSA

Positioned for Success



REGULATORY MILESTONES

- FDA alignment on Phase 3 study design
- Type C alignment on clinical pharmacology and non-clinical elements
- Type C alignment on Chemistry, Manufacturing & Controls (CMC)



PHASE 3 READINESS ACTIVITIES

- Clinical site identification and qualification
- Manufacture and packaging of clinical drug supply
- Initiate trial start-up activities expected by year-end 2026



BUILDING VALUE

- New U.S. composition of matter patent granted for ATH434 with protection out to 2045
- Evaluate additional high-value indications
- Strengthen the team to enhance organizational capabilities

ASX: ATH
NASDAQ: ATHE





| APPENDIX

Inadequately chaperoned cellular iron drives MSA pathology



Promotes α -synuclein cross linking¹

Directly increases α -synuclein translation²

ODG toxicity due to limited endogenous glutathione³

Free radicals promote α -synuclein aggregation⁴

Impaired lysosomal autophagy⁵

The Relevance of Iron in the Pathogenesis of Multiple System Atrophy: A Viewpoint

Christine Kaundlstorfer, Kurt A. Jellinger, Sabine Eschlböck, Nadia Stefanova, Günter Weiss, Gregor K. Wenning

Journal of Alzheimer's Disease (2018) DOI 10.3233/JAD-170601

Iron converts native α -SYN into a β -sheet conformation and promotes its aggregation either directly or via increasing levels of oxidative stress. The disturbance of iron homeostasis leads to abnormal iron deposition in the brain and causes neurotoxicity via generation of free radicals and oxidative stress.

Cellular iron deposition patterns predict clinical subtypes of multiple system atrophy

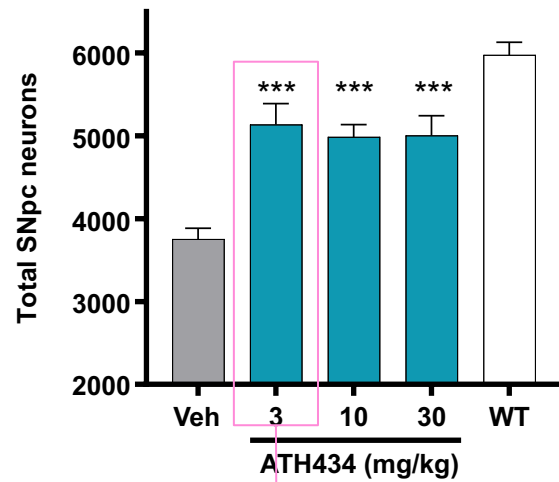
Seojin Lee, Ivan Martinez-Valbuena, Anthony E. Lang, Gabor G. Kovacs

Neurobiology of Disease. 2024. <https://doi.org/10.1016/j.nbd.2024.106535>

Importantly, extensive evidence suggests a molecular relationship between iron accumulation and α -syn pathology.

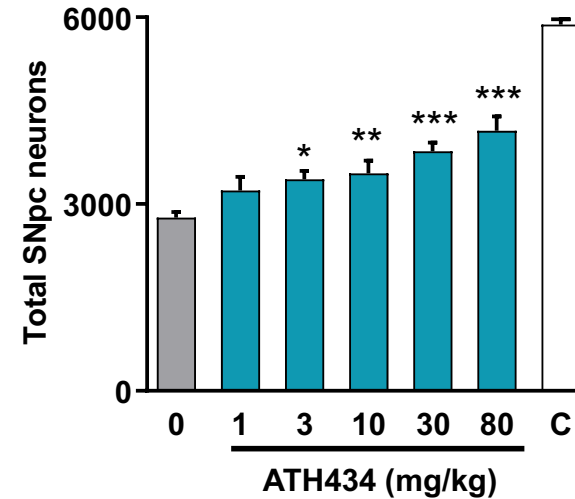
Animal data supporting Phase 2 dose selection

PLP- α -syn MSA Mouse model



Exposure at 3 mg/kg
~ to 50 mg BID in man

MPTP Mouse model



ATH434 affinity for Fe²⁺ and Fe³⁺ relative to endogenous iron binding proteins

	Fe ²⁺		Fe ³⁺	
	μM	constant	μM	constant
ATH434	4.6 ^a	10 ^{-5.33}	0. 0003 ^b	10 ^{-9.6}
PCBPs	0.9 ^c 5.8 ^c	10 ^{-6.04} 10 ^{-5.24}		
Glutathione	~8 ^d	10 ^{-5.10}		
Transferrin				10 ^{-23 e}

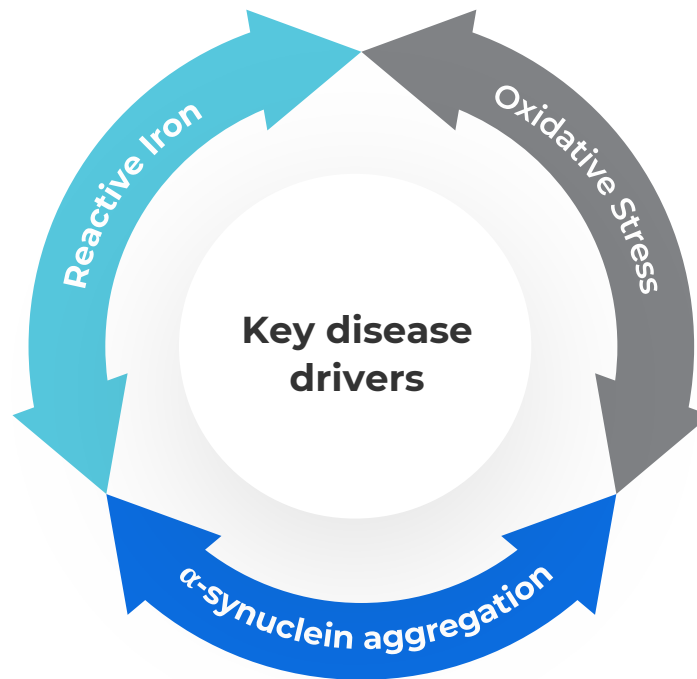
Iron is a key driver of the MSA Pathology

ATH434 chaperones excess iron to reduce neuronal injury

MSA Pathology Cycle

Disrupted Control of CNS Iron

Overwhelms natural iron buffering systems, leading to iron accumulation in MSA brain regions



Reactive iron

Generates free radicals
Promotes α -synuclein aggregation

Oxidative stress

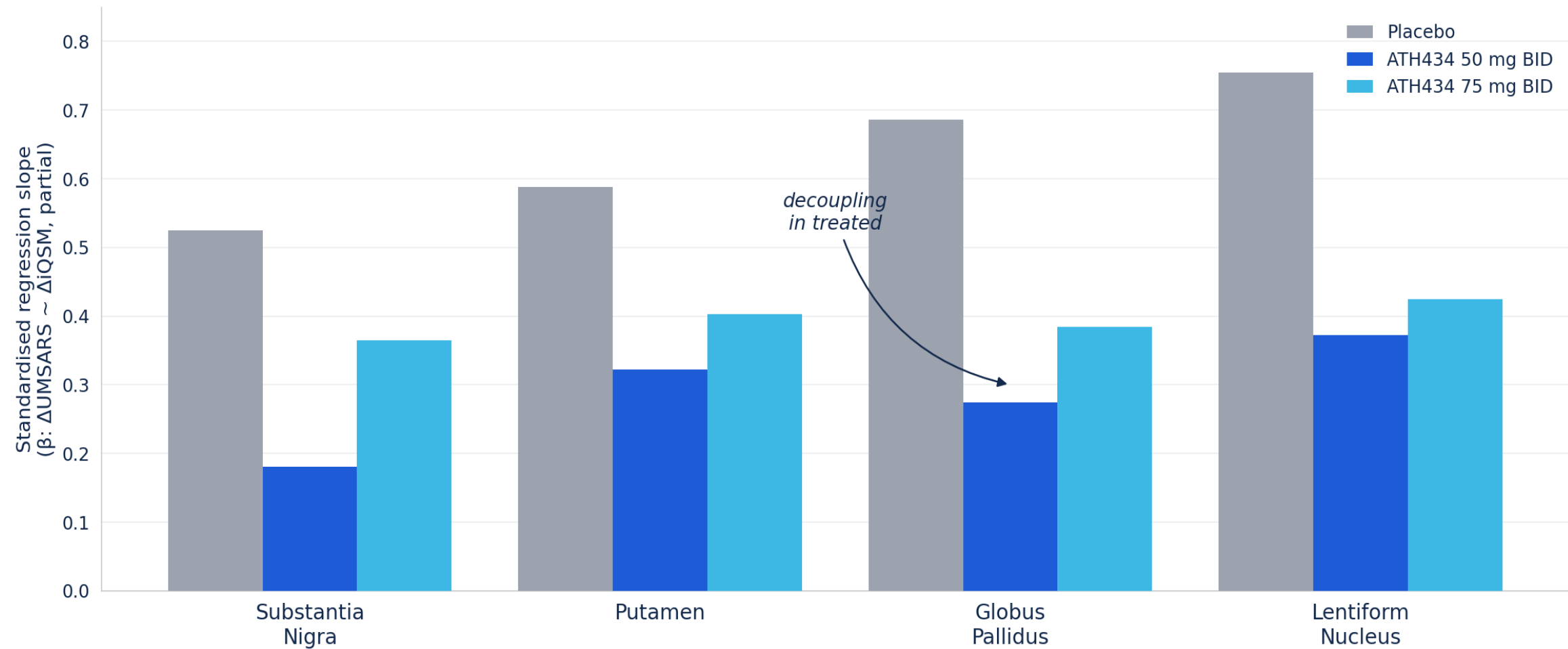
Disrupts multiple cellular functions
Promotes α -synuclein aggregation

α -synuclein aggregation

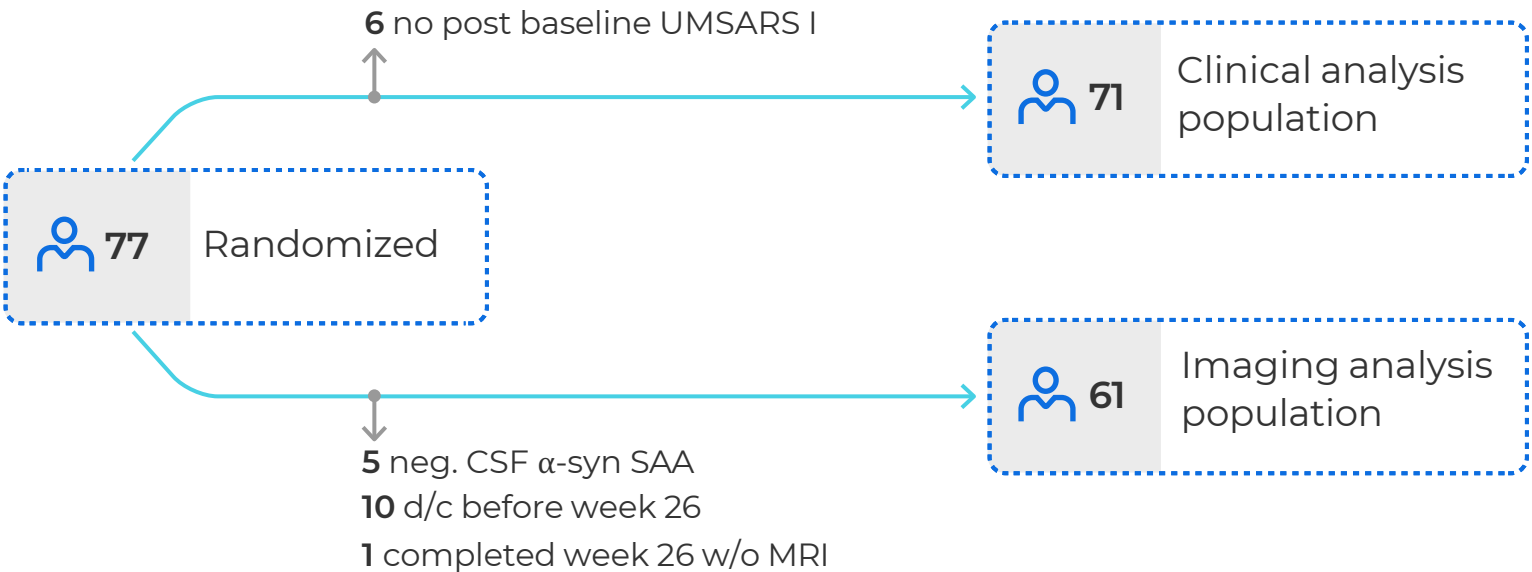
Neuronal toxicity
Impaired myelin production

Correlation Between Change in Iron and Change in UMSARS I Score at Week 52

ATH434 decouples iron accumulation from clinical worsening



Controlling for Sex, Age, Baseline CSF NfL, Baseline QSM



Endpoint	Change from BL to week 52	Population
Biomarker (Primary)	Iron content in s. nigra by MRI	Imaging
Clinical (Key secondary)	Change in Modified UMSARS Part I	Clinical

Design	Single arm, open-label
Objective	Assess safety and efficacy in advanced MSA
Population	Advanced MSA (n=10)
Treatment	ATH434 75 mg BID x 12 months
Brain MRI Biomarkers	Volume, Iron
Key Clinical Measure	UMSARS I

Outcomes:

- ✓ Comparable efficacy observed at same dose in double blind study
- ✓ No serious Adverse Events (AEs) related to study drug
- ✓ AEs consistent with underlying disease

The study indicates the potential of ATH434 to slow disease progression in advanced MSA

ATH434-202: Open label study in advanced MSA

Parameter	ATH434-202 75 mg BID  N=10	ATH434-201 75mg BID  N=24
Age (yr)	64.5 (7.5)	63.9 (6.7)
Duration of motor symptoms (yr)	3.9 (1.8)	2.3 (0.9)
Modified UMSARS I ¹	19.2 (5.3)	14.4 (4.4)
Motor score of Parkinson Plus Scale ²	57.5 (20.4)	48.9 (16.8)
Plasma NfL (pg/mL)	42.1 (14.1)	32.3 (9.0)
OH Symptom Assessment	16.7 (14.8)	15.0 (12.2)
Severe Orthostatic Hypotension	40.0%	29.2%
	Mean (SD)	

Key objective was to assess efficacy and safety of ATH434 75 mg dose for comparison to 75 mg dose in 201 double-blind study

¹ MSA affected areas by MSA-atrophy index. Trujillo, P. et al Annals of Clin and Trans Neuro, 2025

ATH434-202: Key data at 75 mg dose

Comparison to double blind study at 12 mo

Change over 12 Months	ATH434-202 75 mg BID  N=10	ATH434-201 75mg BID  N=24
Modified UMSARS I	3.5 (4.7)	5.6 (5.6)
Clinical global impression of change (% stable)	30%	21%
Patient global impression of change (% stable)	30%	26.4%
Brain volume ¹	-0.44 (0.14)	-0.42 (0.29)
Mean (SD)		

The 75 mg dose demonstrated comparable efficacy to that observed in the double-blind study

- No serious AEs related to study drug
- AEs consistent with underlying disease

¹In MSA affected areas by MSA-atrophy index. Trujillo, P. et al. Annals of Clin and Trans Neuro, 2025