AMX0035

March 30, 2022

Amylyx Pharmaceuticals

Peripheral and Central Nervous System Drugs Advisory Committee

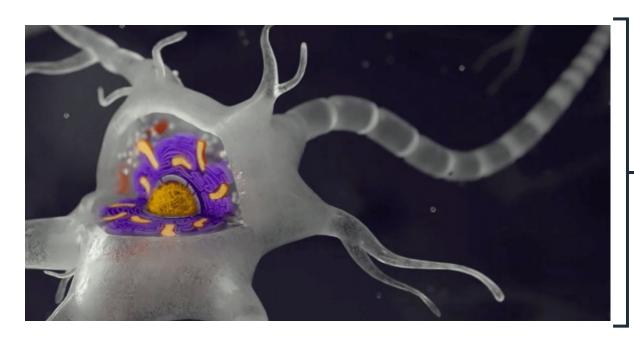
Introduction

Justin Klee and Joshua Cohen

Co-CEOs and Co-Founders

Amylyx Pharmaceuticals

Amyotrophic Lateral Sclerosis (ALS) Rare, Progressive, Universally Fatal Disease



Degeneration and death of motor neurons

Rapid loss of basic function and death within few years

~ 500,000 Americans have died from ALS over past 80 years

Amylyx New Approach to Treating ALS

AMX0035

Endoplasmic reticulum and mitochondrial stress pathways

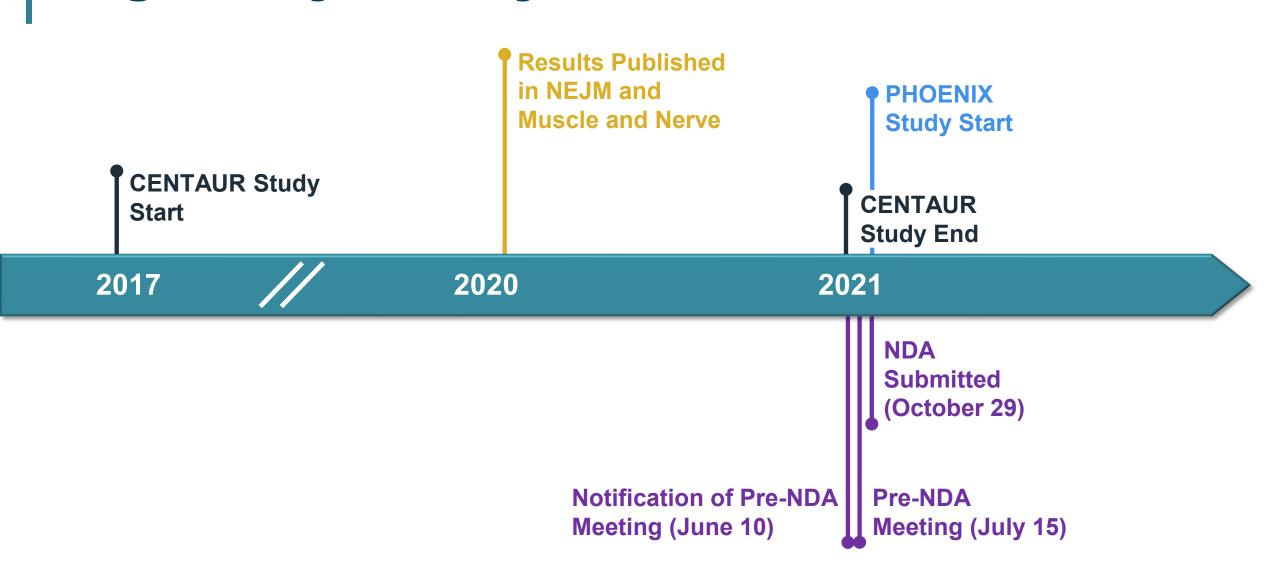
Lead to degeneration and death of neurons

AMX0035 - Combination of Sodium Phenylbutyrate (PB) and Taurursodiol (TURSO)

AMX0035 is indicated for the treatment of ALS

- Administered orally or via feeding tube
- Recommended starting dose: 1 sachet once daily for 1 to 21 days
- Maintenance dose: 1 sachet twice daily, morning and evening

AMX0035 Clinical Development and Regulatory History



CENTAUR Trial Overview

AMX0035 met primary endpoint

Slowed progression of functional decline

Statistically significant benefit on overall survival

Favorable safety profile

Numerically fewer SAEs

First treatment to show benefit on both function and survival in ALS

FDA Comments To Be Addressed

- Taste, GI AEs, blinding throughout OLP
- Primary analysis
- Survival methodology
- Statistical differences

Amylyx Commitment to ALS Community

- Continuing to study AMX0035 benefit in ALS
 - Another large placebo-controlled study
 - Already recruiting participants
 - Sites selected primarily outside US
 - Expected read-out in 2024
- Expanded access program in US for 250 participants

Agenda

Unmet Need

Sabrina Paganoni, MD, PhD

Co-Director, Neurological Clinical Research Institute and Healey & AMG Center for ALS, Massachusetts General Hospital Associate Professor, Harvard Medical School

Endpoint Assessment in ALS

Jeremy Shefner, MD, PhD

Senior Vice President
Professor and Chair of Neurology
Barrow Neurological Institute

Efficacy and Benefit / Risk

Jamie Timmons, MD

Head of Scientific Communications Amylyx Pharmaceuticals

Clinical Perspective

Sabrina Paganoni, MD, PhD

Additional Experts

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CEO, Consultant Pentara Corporation

Jay Mason, MD

President

Mason Cardiac Consulting

Patrick Yeramian, MD, MBA

Chief Medical Officer Amylyx Pharmaceuticals

Unmet Need

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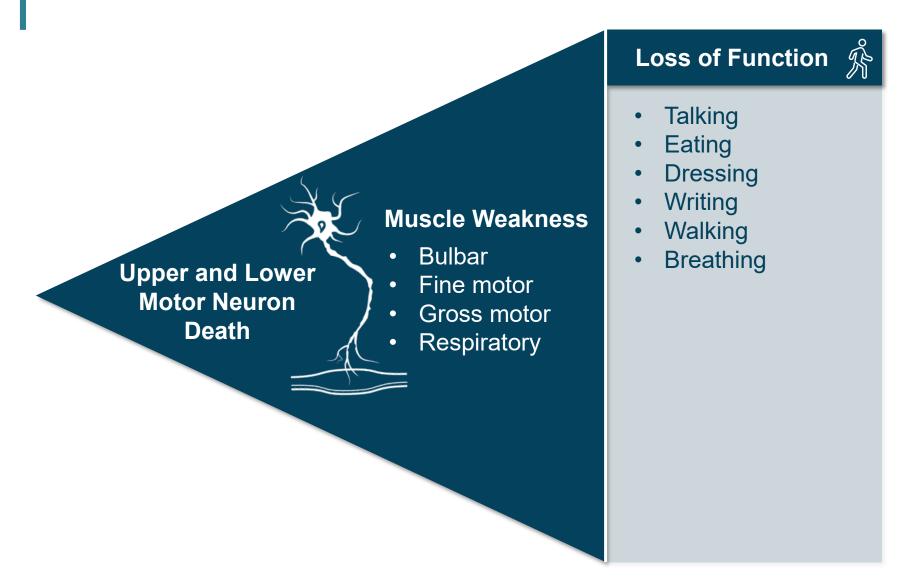
ALS Has Broad Impact

> 29,000 adults in US living with ALS¹

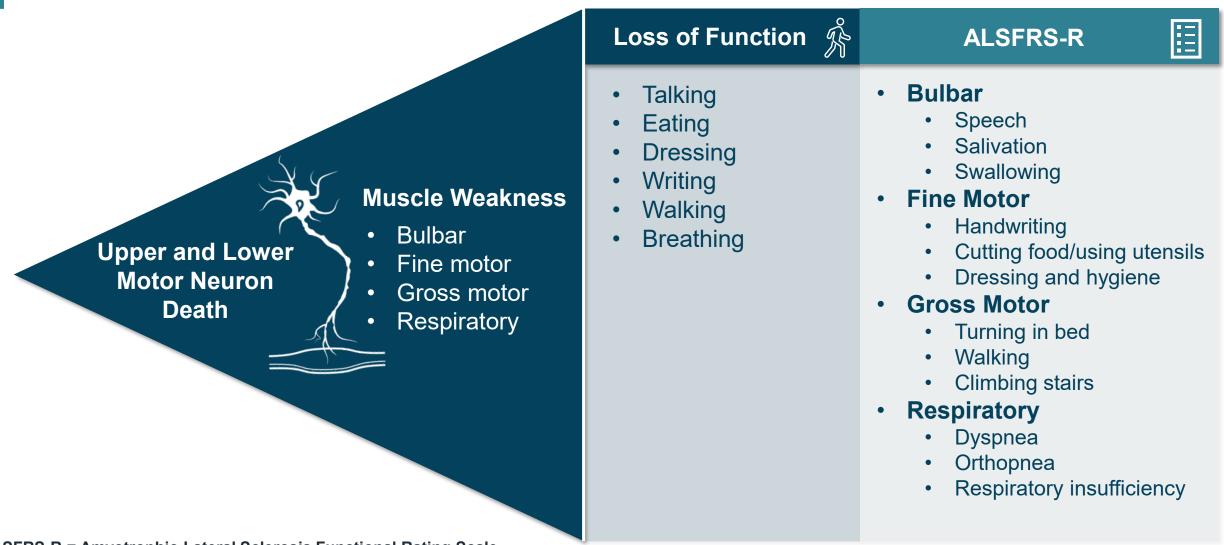


Median onset of **55 years**, however ALS impacts broad age range, including young adults^{3,4}

ALS Begins with Motor Neuron Degeneration and Death and Results in Loss of Function



ALSFRS-R Widely Used to Measure Functional Decline in ALS



ALSFRS-R = Amyotrophic Lateral Sclerosis Functional Rating Scale

ALSFRS-R Measures Independence in Important Daily Functions

Total of 48 points; 12 items rated on scale of 0-4

			SCORE		
	4	3	2	1	0
Example: Swallowing	Normal eating	Early problems; occasional choking	Dietary consistency changes	Supplemental tube feedings needed	Only enteral or parenteral feeding

ALSFRS-R Categories Relevant to ALS

- Sensitive and reliable tool for assessing activities of daily living in ALS¹
- Administered quickly in person or by phone^{1,2}
 - Established equivalency of phone vs in-person testing²
- It has high inter-rater and test-retest reliability^{1,2}
- Changes in ALSFRS-R scores predict survival and correlate with QoL measures^{3,4}

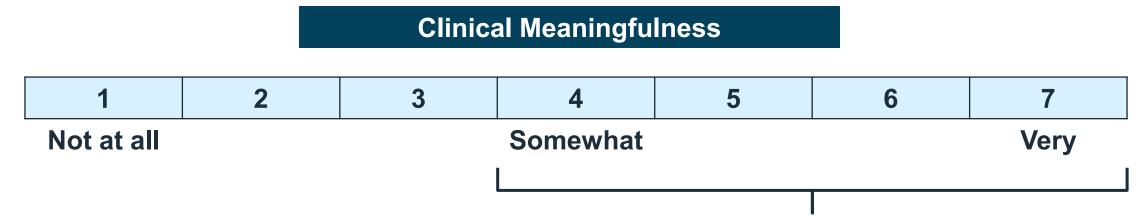
ALSFRS-R Predicts Survival

Variable	Hazard Ratio (95% CI)	p-value	
Age at baseline, years	1.02 (1.01, 1.04)	0.01	
Male vs Female	0.85 (0.53, 1.35)	0.5	
Symptom duration, years	0.74 (0.63, 0.87)	< 0.001	
Total ALSFRS-R score	0.93 (0.90, 0.96)	< 0.001	
Forced Vital Capacity, % predicted	0.99 (0.98, 1.01)	0.3	
Riluzole use, ever vs never	0.85 (0.54, 1.33)	0.5	
Site of symptom onset			
Upper extremity	1.00	reference	
Lower extremity	1.17 (0.66, 2.07)	0.6	
Bulbar	1.81 (0.99, 3.33)	0.05	
Respiratory	6.52 (2.72, 15.60)	< 0.001	

ALSFRS-R Correlates with QoL Measures

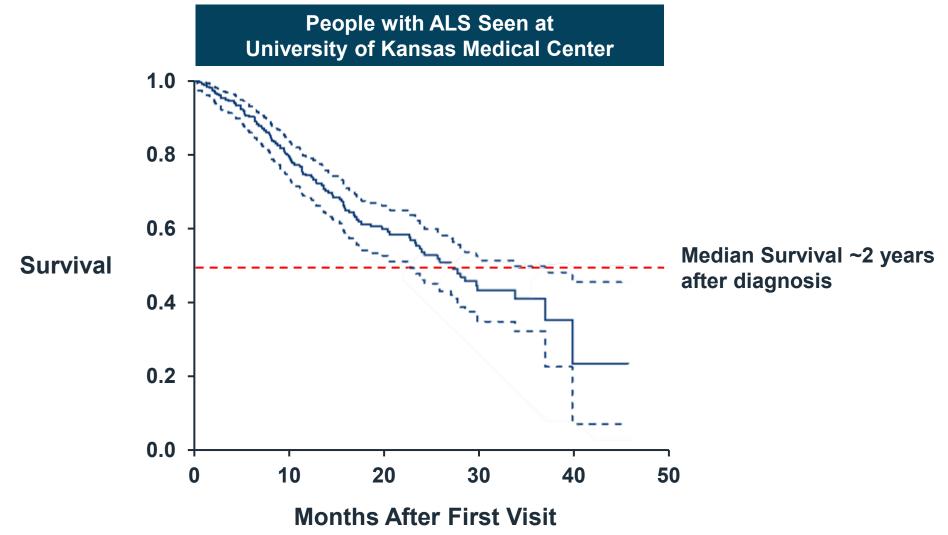
		Health utility score		EQ-VAS score		
Variable	Number	median, (IQR)	p-value	median, (IQR)	p-value	
Age of consent						
> 45	390	0.74 (0.57, 0.88)	0.000	70.0 (50.0, 80.0)	0.542	
< 45	113	0.80 (0.63, 0.91)	- 0.026 -	70.0 (60.0, 80.0)		
Sex						
Male	319	0.78 (0.58, 0.91)	0.055	70.0 (50.0, 80.0)	- 0.221	
Female	184	0.73 (0.57, 0.87)	– 0.055 -	70.0 (50.0, 80.0)		
Onset region						
Bulbar onset	62	0.90 (0.80, 1.00)	- < 0.001	70.0 (60.0, 80.0)	- 0.019	
Spinal onset	441	0.73 (0.56, 0.86)		70.0 (50.0, 80.0)		
ALSFRS-R score						
≥ 40	378	0.80 (0.67, 0.91)	- < 0.001	70.0 (60.0, 80.0)	< 0.001	
< 40	125	0.53 (0.31, 0.68)		55.0 (50.0, 70.0)		

Change in ALSFRS-R Clinically Meaningful



Change of ≥ 20% in rate of decline of ALSFRS-R considered clinically meaningful by ALS experts

ALS Clock Short and Relentless



Clinically Meaningful Benefit Demonstrated by Median Overall Survival (OS) and Hazard Ratio (HR)

- ASCO guidelines specify 2.5 to 6 months improvement in median OS as clinically meaningful
- ASCO guidelines recommend HR as informative outcome in combination with median OS
 - Clinically meaningful overall survival benefit: HR ≤ 0.8

ALS Is Multipathway Problem

Genetic abnormalities^{1,2}

Oxidative stress³⁻⁵

Axonal degeneration^{6,7}

Aberrant mRNA processing & transport^{8,9}

Neuroinflammation^{10,11}

Synaptic dysfunction^{12,13}

ER stress^{2,14}

Mitochondrial dysfunction^{15,16}

Upper and Lower Motor Neuron Death

1. Chung, 2018; 2. Edenharter, 2018; 3. Chen, 2012; 4. Hardiman, 2017; 5. Cunha-Oliveria, 2020; 6. Fischer, 2007; 7. Brunden, 2017; 8. Liu, 2017; 9. La Rosa P, 2020; 10. Stephenson, 2018; 11. Liu, 2017; 12. Wishart, 2006; 13. Ling, 2020; 14. Lindholm, 2006; 15. Johri, 2012; 16. Manfredi, 2016.

Standard of Care in ALS Includes Multidisciplinary Approach

- Physical and occupational therapy
- Nutrition support (feeding tube)
- Breathing support (ventilator)
- Speech and assistive technology
- Palliative medicine and hospice

Only Two Approved Products for ALS in US

Riluzole

- Approved in 1995
- Blocks glutamatergic neurotransmission in CNS
- Survival ~2–3 months¹
- No effect on function shown¹

Edaravone

- Approved in 2017
- Antioxidant
- Slows functional decline²
- No survival benefit shown³

Need Effective Treatments that Impact Both Function and Survival

- Limited current treatment options
- Clock already ticking by time of ALS diagnosis
- Need treatments that retain function and prolong survival

Endpoint Assessment in ALS

Jeremy Shefner, MD, PhD

Senior Vice President

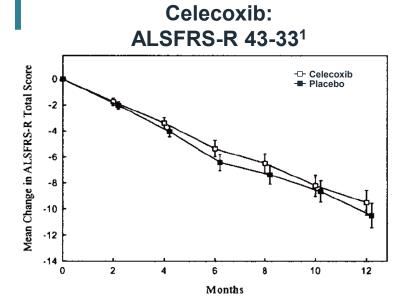
Professor and Chair of Neurology

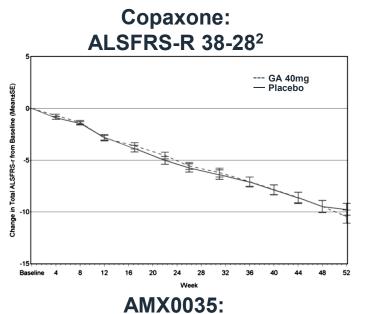
Barrow Neurological Institute

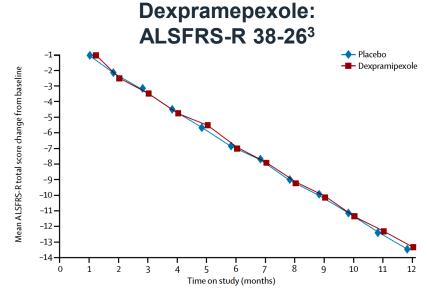
Experience in ALS Research

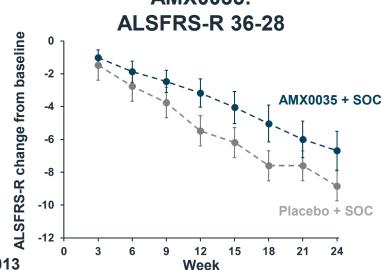
- 1996 Cofounded Northeast ALS Clinical Trials Consortium
 - Largest consortium of academic centers performing ALS trials in world
- Executive committee or PI of multiple / multi-center ALS trials
- Research interests focus on development of functional biomarkers for ALS
- 2014 Received Sheila Essey Award for ALS research

Decline in ALSFRS-R Over Time Is Linear









ALSFRS-R Shared Baseline Mixed Effects Model Most Appropriate Primary Analysis for CENTAUR

- Shared baseline, linear, mixed effects model of ALSFRS-R
 - Provides sensitive estimate of treatment effect
 - Effectively handles missing data
 - Allows inclusion of important prognostic covariates
 - Clinically meaningful endpoint used in many ALS trials
- Joint rank
 - Less sensitive when number of deaths expected low
 - Not designed to adjust for covariates
 - No robust methods for handling missing data
 - No intuitive clinical meaning, only p-value

Summary

- ALSFRS-R decline over time is linear in past ALS trials and appears to be linear in CENTAUR
 - Sensitivity analyses to test this assumption have not shown significant deviation
- Prespecified shared baseline, linear, mixed effects model chosen for primary outcome in CENTAUR appropriate
- Few deaths over 24 weeks, limiting utility of joint rank analysis

Efficacy and Benefit / Risk

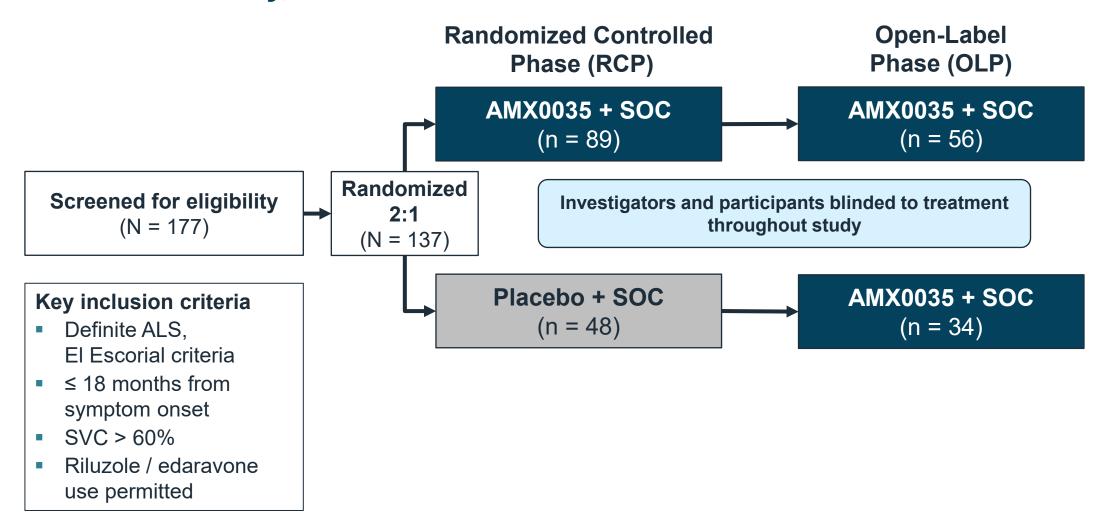
Jamie Timmons, MD

Head of Scientific Communications

Amylyx Pharmaceuticals

CENTAUR Study Design Had Two Phases

Multi-center study, 25 US centers



Endpoints and Duration of Follow-Up Allowed for Robust Evaluation of AMX0035 Efficacy

Randomized Controlled Phase (RCP)

Open-Label Phase (OLP)



24 weeks

48 weeks

Up to 42 months from randomization

Function –
Primary Endpoint

Function – Extended Analysis

Key Secondary Endpoints

Key Secondary Endpoints – Extended Analysis

Overall survival, time to hospitalization, or death equivalent

Efficacy Endpoints Used Validated Tools

- Primary endpoint
 - Amyotrophic Lateral Sclerosis Functional Rating Scale-Revised (ALSFRS-R): function
- Key secondary endpoints
 - Accurate Test of Limb Isometric Strength (ATLIS): muscle strength
 - Slow Vital Capacity (SVC): respiratory function
- Time to events
 - Composite of and individual measures
 - Time to death (overall survival)
 - Time to first hospitalization
 - Time to death equivalent (tracheostomy or permanent assisted ventilation)

Randomization Error Occurred, Cause and Impact Thoroughly Investigated

- Kits shipped one by one after successful screening visits
- Early in study, unblinded statistician discovered that initial 18 study kits shipped were all active drug
 - Due to error at distribution center
 - 9 placebo kits shipped next
- Randomization ratio maintained with no unblinding and no further issues
- Sponsor not aware until two months after unblinding
 - No physicians or participants aware
- Sponsor initiated thorough investigation and consulted with external statisticians
 - Sensitivity analysis conducted showing no impact on primary outcome

Adverse Events and Study Drug Taste Unlikely to Result in Unblinding

- Taste
 - AMX0035 and placebo taste matched
- Gl adverse events
 - Generally mild
 - Similar overall incidence between AMX0035 (66%) and placebo (63%)
- Exit Questionnaire performed
 - Neither study investigators nor participants able to guess treatment assignment at rate better than chance

Blind Maintained Through End of OLP

- Blind maintained through entirety of both randomized and open label phases of CENTAUR
- Sites emailed unblinded treatment information on October 15, 2021
 - OLP last participant last visit: March 1, 2021

Prespecified Hierarchies in Two Analysis Plans

Randomized Controlled Phase	Open-Label Phase			
ALSFRS-R rate of decline	ALSFRS-R rate of decline			
ATLIS rate of decline	Impact of AMX0035 on survival, hospitalization, and tracheostomies			
pNF-H rate of decline	Upper and Lower ATLIS scores rate of decline			
SVC rate of decline	SVC rate of decline			
Impact of AMX0035 on survival, hospitalization, and tracheostomies	Rate of progression on ALSFRS-R subdomains			
Pharmacokinetics of AMX0035	Rate of progression on total ATLIS score			
Results from exploratory TSPO PET substudy				

RCP and OLP Prespecified Analysis Plans Finalized Before Unblinding

- October 14, 2019 RCP SAP submitted
- November 5, 2019 OLP SAP submitted
- November 26, 2019 RCP unblinded to Amylyx
- April 1, 2020 supplemental OS SAP submitted

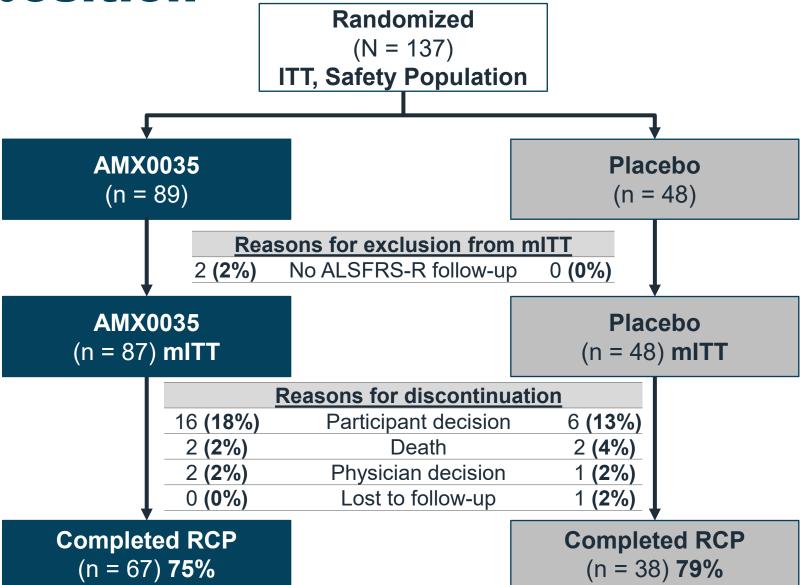
RCP: Sample Size Calculation

- Shared-baseline, mixed-effects analysis
- 2:1 randomization between treatment and placebo
- ~131 participants followed over 6 months
- 80% power
- 30% treatment effect
- One-sided alpha of 0.05

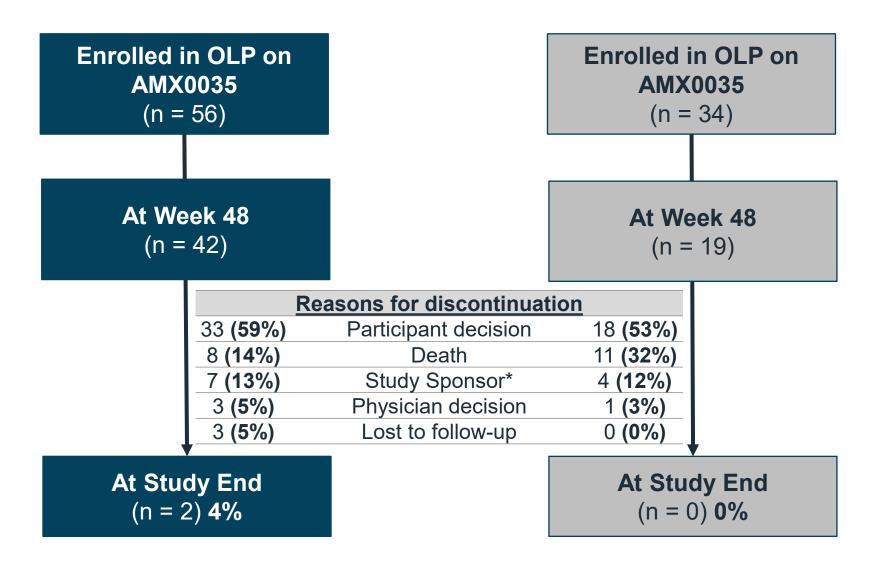
Prespecified Modified Intent to Treat (mITT) Efficacy Analysis Population

- Defined as all participants who
 - Received ≥ 1 dose of study drug
 - Had ≥ 1 post-baseline ALSFRS-R measurement
- mITT definition recommended by FDA
- Safety analyses used ITT population

RCP: Disposition



OLP: Disposition



RCP Weeks 0-24: Demographics Balanced Between Groups

	AMX0035 + SOC (N = 87)	Placebo + SOC (N = 48)
Age (years), mean (SD)	58 (10)	57 (8)
Male (% participants)	70%	67%
Race		
White	94%	96%
Black / African American	2%	2%
Asian	2%	2%
Hispanic / Latino	7%	2%
BMI (kg/m²), mean (SD)	27 (4)	26 (6)
United States (% participants)	100%	100%

RCP Weeks 0-24: Baseline Characteristics Generally Similar Between Groups

	AMX0035 + SOC (N = 87)	Placebo + SOC (N = 48)
Time Since ALS Diagnosis (months), mean (SD)	5.9 (3.3)	6.3 (3.2)
Time Since ALS Symptom Onset (months), mean (SD)	13.5 (3.8)	13.6 (3.6)
ALSFRS-R Total Score, mean (SD)	35.7 (5.8)	36.7 (5.1)
ATLIS Total Score (% predicted normal), mean (SD)	57% (20.1)	54% (20.9)
SVC (% predicted normal), mean (SD)	84 % (15.9)	84% (18.2)
Pre-baseline ALSFRS-R slope (Del-FS), mean (SD)	1.0 (0.4)	0.9 (0.6)

RCP Weeks 0-24: Concomitant ALS Medication Use

	AMX0035 + SOC (N = 87)	Placebo + SOC (N = 48)
Baseline Edaravone or Riluzole Use	71%	88%
Edaravone Use	25%	50%
Riluzole Use	68%	77%

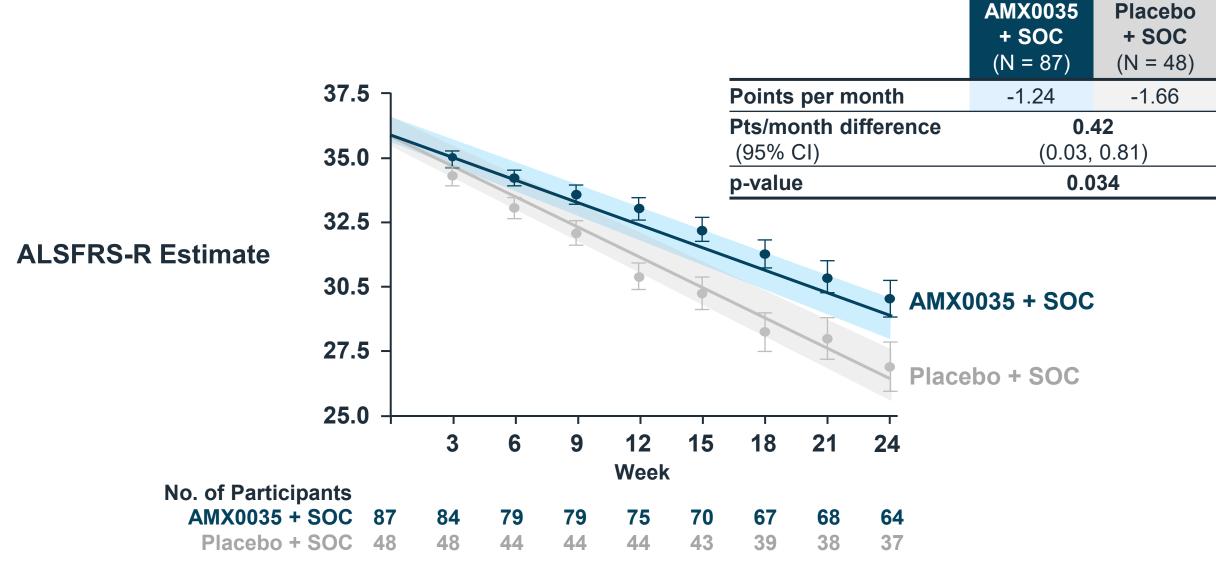
Prespecified Primary Model

- Shared baseline, linear, mixed effects model with repeated measures
 - Missing at random assumption for missing values
- Model assumes all participants had same baseline ALSFRS-R total score and assumes linearity
- Prespecified quadratic model used instead of linear model if quadratic terms for time in mixed model found significant (p < 0.10)
 - All quadratic terms for time per prespecified SAP not significant (p > 0.10)
 - Per SAP, only linear terms retained

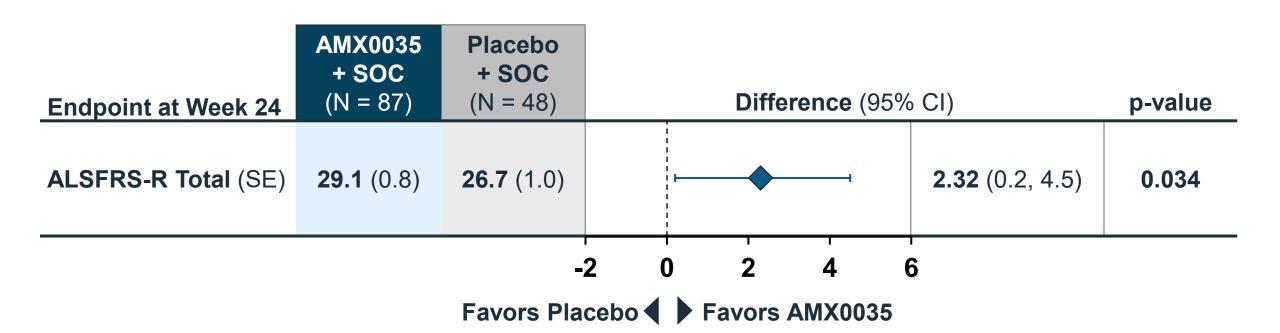
Joint Rank Analysis Not Appropriate as Primary Endpoint for CENTAUR

Primary Model: Shared baseline, linear, mixed effects model of ALSFRS-R	Joint Rank Analysis of ALSFRS-R
 Sensitive estimate of treatment effect 	 Not sensitive measure of treatment effect due to limited number of deaths in RCP
Able to handle missing data not due to death	 No agreed upon method to handle missing data not due to death
 Allows inclusion of important prognostic covariates 	Cannot adjust for covariates
Clinically meaningful	 Provides p-value, but abstract rank statistic not able to translate into clinically meaningful measure by clinicians or people with ALS

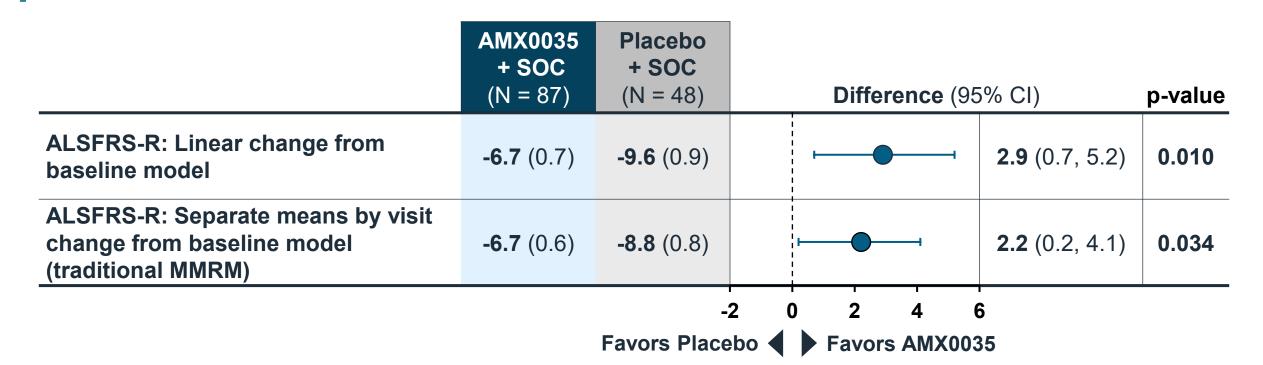
RCP Weeks 0-24: AMX0035 Met Primary Endpoint 25% Slower Decline in Function



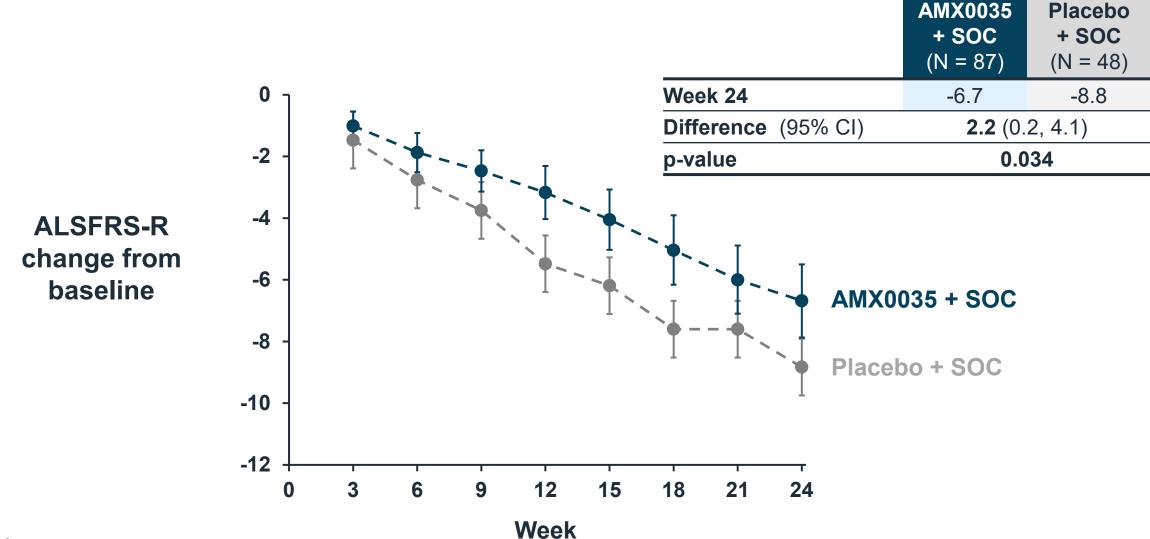
RCP Weeks 0-24: AMX0035 Met Primary Endpoint Significant Benefit on Function in mITT Population



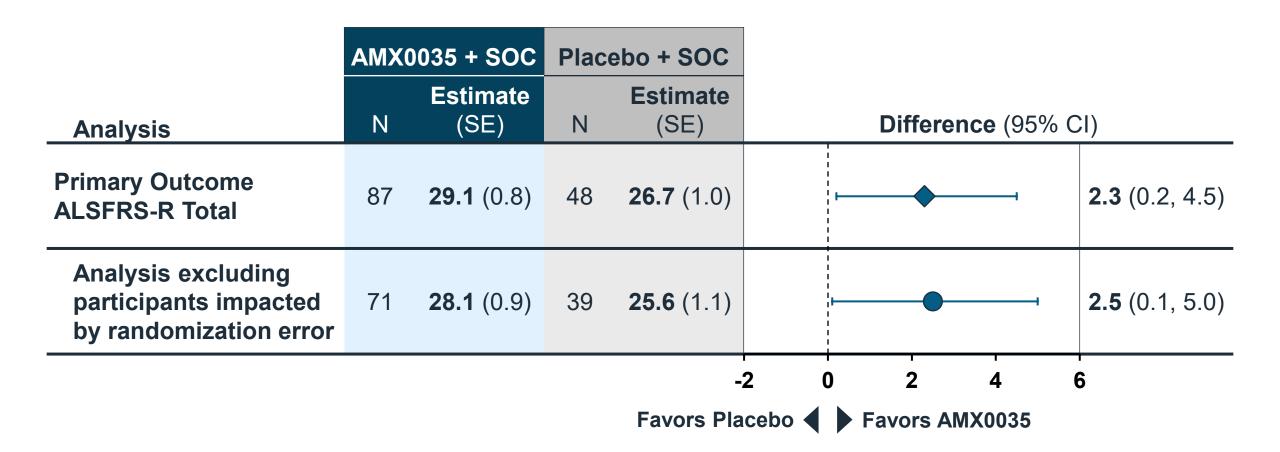
Results Consistent Without Shared Baseline and Linearity Assumptions



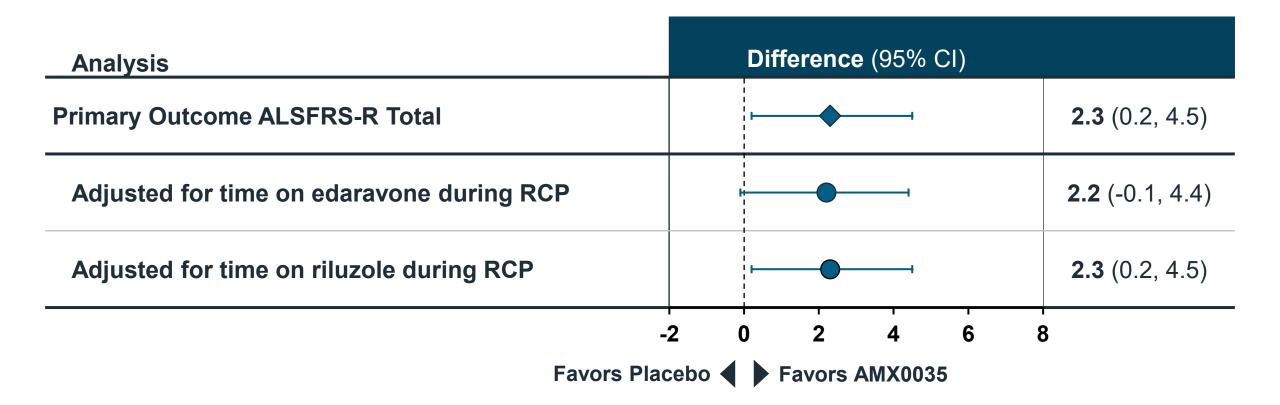
RCP Weeks 0-24: ALSFRS-R Change from Baseline Without Linear Assumption



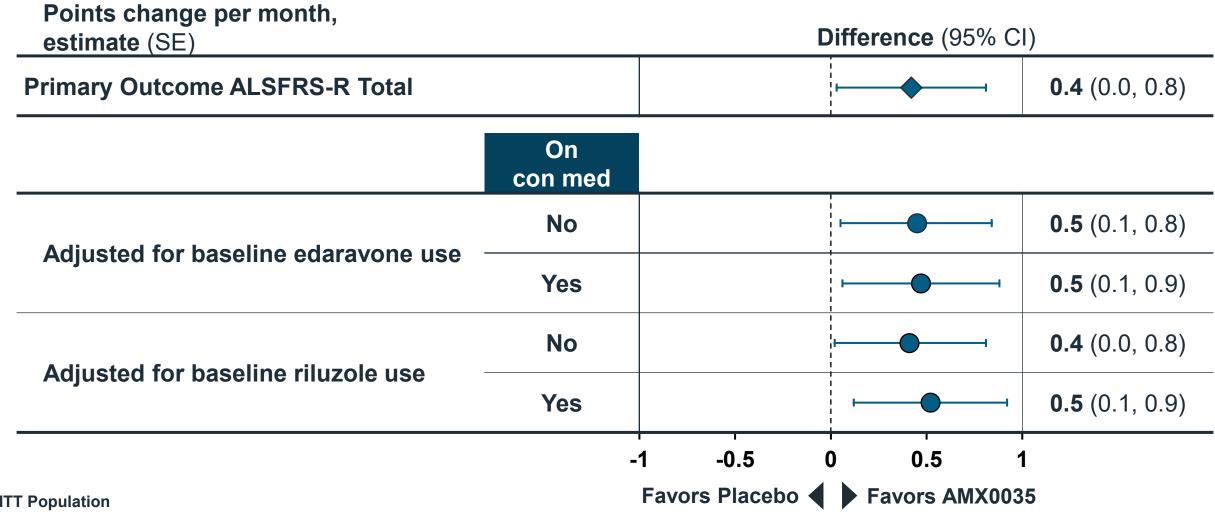
ALSFRS-R Results Similar After Excluding Participants Impacted By Randomization Error



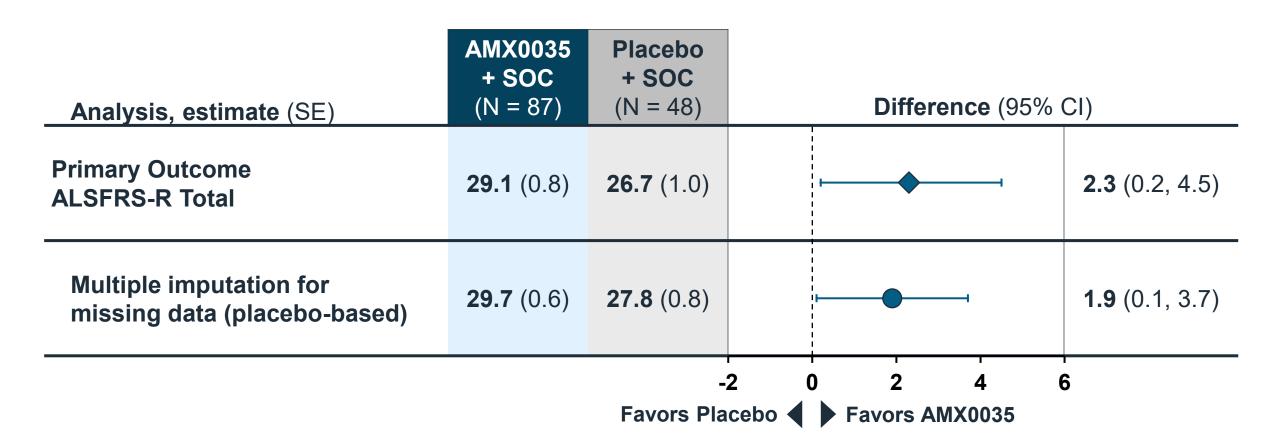
RCP Weeks 0-24: Function Benefit Maintained in Participants Taking Edaravone and Riluzole



RCP Weeks 0-24: Function Benefit Maintained With or Without Baseline Edaravone and Riluzole Use



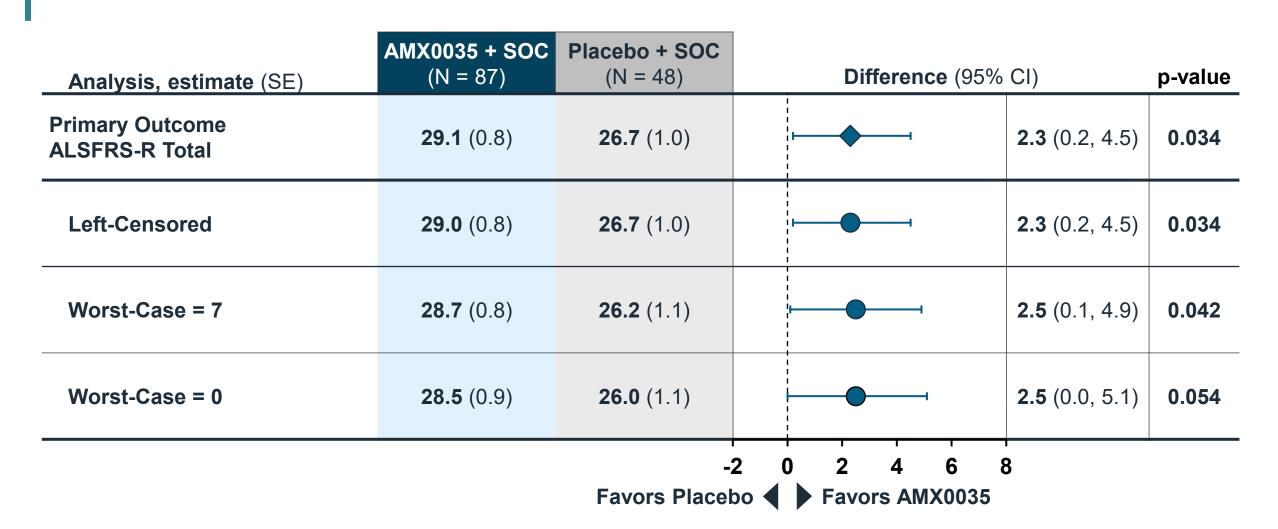
RCP Weeks 0-24: Minimal Impact of Missing Data on Primary Endpoint



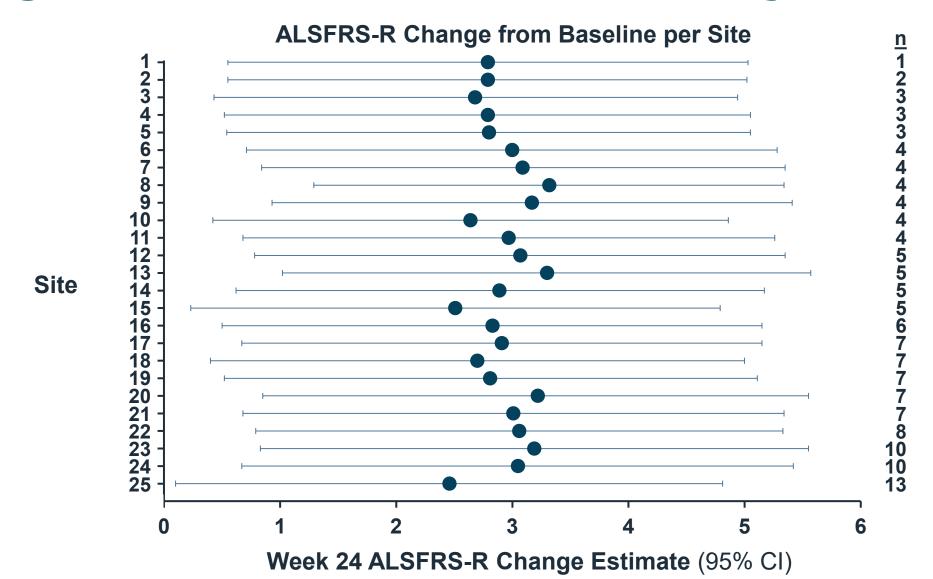
RCP Weeks 0-24: Joint Rank Analyses Accounting for Death Consistent

Analysis		Difference ((95% CI)	p-value
Joint rank analysis for ALSFRS-R total score and death (last available data for deriving rank) [mITT]			13.9 (0.9, 26.8)	0.038
Joint rank analysis for ALSFRS-R total score and death (multiple imputation) [ITT]	ŀ		12.6 (-0.8, 26.1)	0.068
Joint rank analysis for ALSFRS-R total score and death/PAV (multiple imputation) [ITT]			13.5 (0.1, 26.9)	0.050
-1	,	0 10 20 30 4		1

RCP Weeks 0-24: Worst-Case Imputation Accounting for Death on ALSFRS-R Remains Consistent



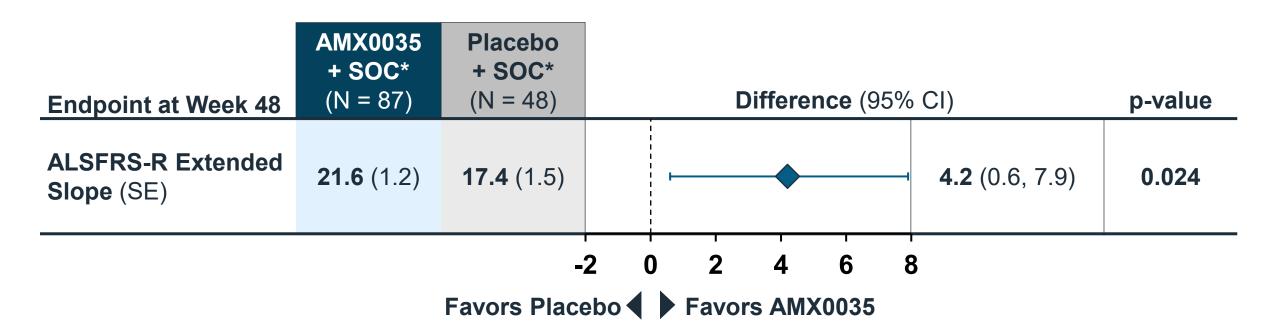
RCP Weeks 0-24: Sensitivity Analysis Showed No Significant Contribution from Any Site



RCP Weeks 0-24: Significant Benefit for AMX0035 in Responder Analysis

Participants, n (%)	AMX0035 + SOC (N = 87)	Placebo + SOC (N = 48)	Odds Ratio (95% CI)	p-value
Responder	36 (41%)	9 (19%)	3.1	0.000
Non-responder	51 (59%)	39 (81%)	(1.3, 7.1)	0.008

Weeks 0-48: Statistically Significant Benefit on Function with AMX0035 Earlier Treatment



^{*}Based on original randomized treatment assignment mITT Population

Weeks 0-48: Early Treatment with AMX0035 Associated with Slower Decline in Function

ALSFRS-R slope, Change in points/month	RCP Weeks 0-24	OLP Weeks 24-48**	
AMX0035 + SOC*	-1.24 (n = 87)	-1.26 (n = 54)	
Placebo + SOC*	-1.66 (n = 48)	-1.37 (n = 32)	

^{*}Based on originally randomized treatment assignments

^{**}Note: most participants in placebo group received AMX0035 during 24-48-week period

Primary Endpoint Met and Robust Across Multiple Sensitivity Analyses

- Statistically significant reduction in rate of progression on ALSFRS-R at end of randomized controlled phase
- Robust across multiple sensitivity analyses
 - Including analyses accounting for missing data due to death
- Sustained benefit of treatment on ALSFRS-R for participants originally randomized to AMX0035 out to Week 48

CENTAUR: Secondary Endpoints Support Function Benefit for AMX0035

Randomized
Controlled Phase (RCP)

Open-Label Phase (OLP)



24 weeks

48 weeks

Up to 42 months from randomization

Function – Primary Endpoint

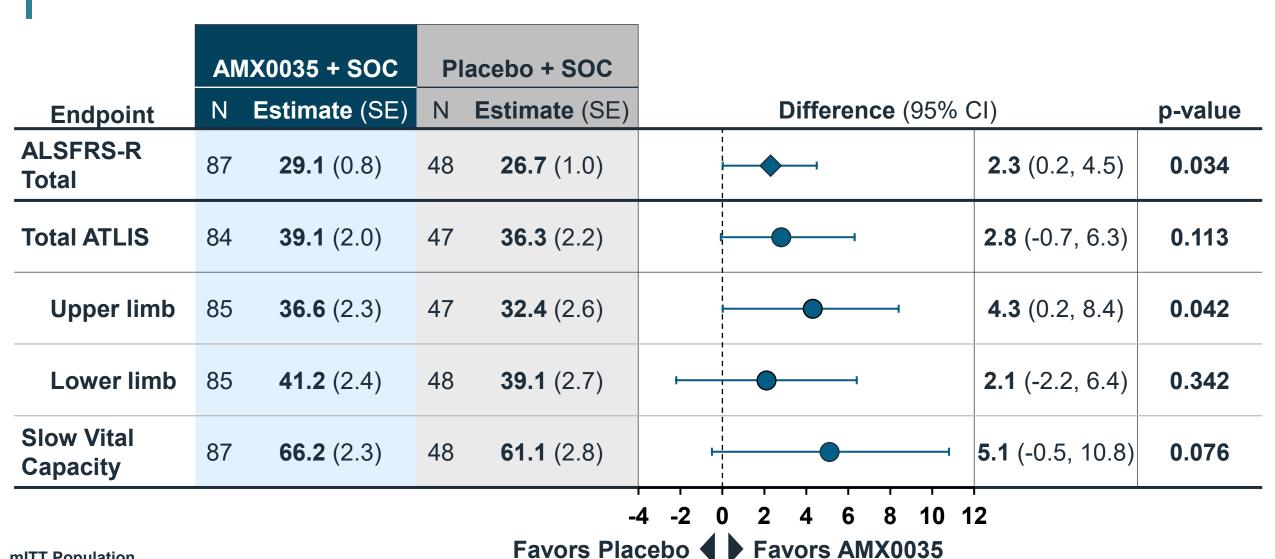
Function – Extended Analysis

Key Secondary Endpoints

Key Secondary Endpoints – Extended Analysis

Overall survival, time to hospitalization, or death equivalent

RCP Weeks 0-24: Secondary Endpoints **Support Primary Endpoint Results**



Weeks 0-48: Secondary Endpoints Support Primary Endpoint Results

•								
		MX0035 + SOC		acebo + SOC				
Endpoint	N	Estimate (SE)	N	Estimate (SE)		Difference (95%	CI)	p-value
ALSFRS-R Total	87	21.6 (1.2)	48	17.4 (1.5)		——	4.2 (0.6, 7.9)	0.024
Total ATLIS	84	22.8 (2.4)	47	16.7 (3.0)			6.2 (0.0, 12.4)	0.050
Upper limb	85	19.8 (2.6)	47	12.1 (3.3)			7.8 (0.8, 14.8)	0.029
Lower limb	85	25.2 (2.9)	48	20.5 (3.7)	_		4.8 (-3.0, 12.5)	0.226
Slow Vital Capacity	87	48.5 (3.4)	48	37.9 (4.4)			10.7 (0.6, 20.7)	0.037
Capacity	07	40.3 (3.4)	40		A 4	1 9 12 16 20 1	10.7 (0.0, 20.7)	

*Based on original randomized treatment assignment mITT Population

Favors Placebo **◆** Favors AMX0035

CENTAUR: Overall Survival

Randomized
Controlled Phase (RCP)

Open-Label Phase (OLP)



24 weeks

48 weeks

Up to 42 months from randomization

Function – Primary Endpoint

Function – Extended Analysis

Key Secondary Endpoints

Key Secondary Endpoints – Extended Analysis

Overall survival, time to hospitalization, or death equivalent

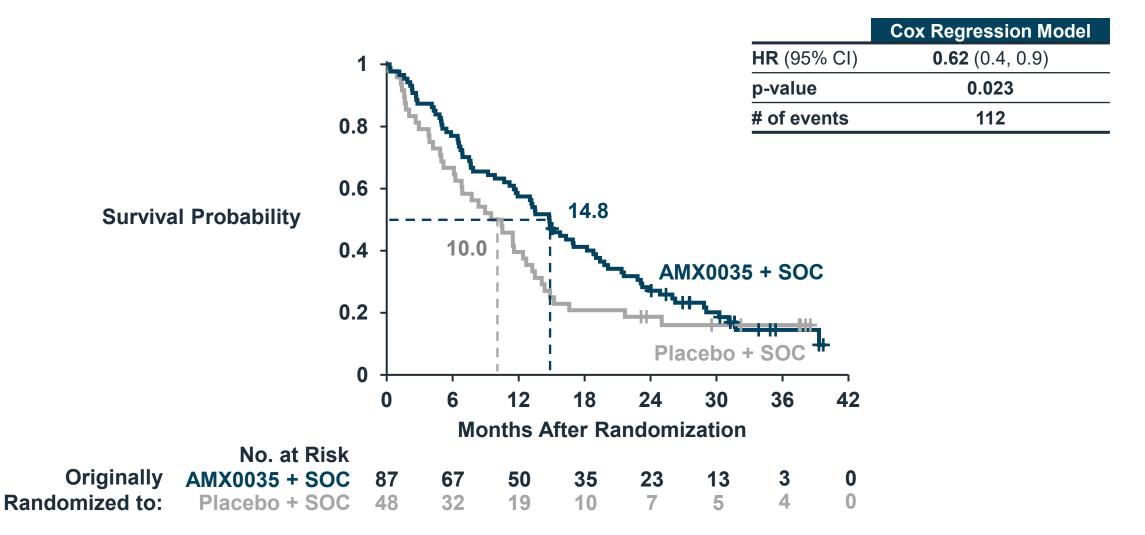
Survival – Prespecified Second Efficacy Outcome for Long-Term Follow-Up

Prespecified Hierarchy for Randomized Controlled Phase	Prespecified Hierarchy for Long-Term Follow-Up
ALSFRS-R rate of decline	ALSFRS-R rate of decline
ATLIS rate of decline	Impact of AMX0035 on survival, hospitalization, and tracheostomies
pNF-H rate of decline	Upper and Lower ATLIS scores rate of decline
SVC rate of decline	SVC rate of decline
Impact of AMX0035 on survival, hospitalization, and tracheostomies	Rate of progression on ALSFRS-R subdomains
Pharmacokinetics of AMX0035	Rate of progression on total ATLIS score
Results from exploratory TSPO PET substudy	

Time-to-Event Outcomes

- Cut-off: March 2021 (last participant last visit in OLP)
- Comparison groups: originally randomized to AMX0035 + SOC vs placebo + SOC
- Overall Survival (time to death)
 - Comprehensive data capture 136/137 participants
- Hospitalizations and death equivalent
 - Captured via clinic reports
- Data shown address FDA comments and align with prespecified SAP

Prespecified mITT Overall Survival, Hospitalization, or Death Equivalent Met

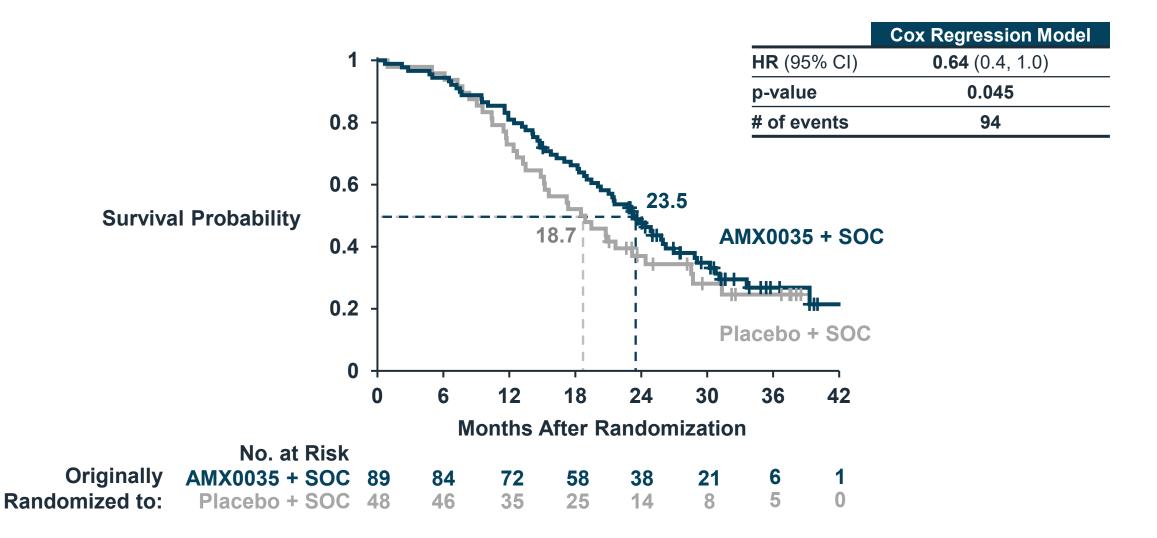


Individual mITT Time to Event Outcomes Show Consistent Benefit for AMX0035

Outcome, median survival estimate	AMX0035 + SOC (N = 87)	Placebo + SOC (N = 48)	Hazard Ratio (95% CI)
Time to first hospitalization, death, or death equivalent	14.8	10.0	0.62 (0.42, 0.93)
Time to first hospitalization*	31.8	14.1	0.62 (0.38, 1.03)
Time to death (overall survival)	23.5	18.7	0.61 (0.39, 0.95)
Time to death or death equivalent	23.5	17.9	□ 0.59 (0.38, 0.91)
		0.	.1 1

^{*}Hospitalization defined as at least 24 hour stay mITT Population

AMX0035 Results in ITT Overall Survival Benefit



Composite and Individual Time to Event Benefit Consistent in ITT Population

	AMX0035 + SOC	Placebo + SOC		
Outcome, median survival estimate	(N = 89)	(N = 48)	Hazard Ratio (95% CI)	
Time to death (overall survival)	23.5	18.7	0.64 (0.41, 0.98)	
Time to first hospitalization, death, or death equivalent	14.8	10.0	0.64 (0.43, 0.95)	
Time to first hospitalization	31.8	14.1	0.64 (0.39, 1.05)	
Time to death or death equivalent	23.2	17.9	0.62 (0.40, 0.95)	
	0.1			

Overall Survival Benefit Consistent Across All Cut-Off Dates in ITT Population

Overall Survival, median estimate	AMX0035 + SOC (N = 89)	Placebo + SOC (N = 48)	Number of Events	Hazard Ratio	(95% CI)
February 29, 2020	23.8	20.8	58		0.61 (0.35, 1.05)
July 20, 2020	25.8	18.9	72		0.57 (0.35, 0.93)
March 1, 2021	23.5	18.7	94		0.64 (0.41, 0.98)
-			0.	.1 1	-

Addressing FDA Comments

FDA Concern	Response
Taste, GI AEs, blinding throughout OLP	 GI AEs and study drug taste unlikely to lead to unblinding
	 Use of linear terms supported by prespecified sensitivity analyses
Choice of primary analysis	 Joint rank not appropriate and less sensitive primary outcome
	 Performed as sensitivity analysis, and results consistent with prespecified primary analysis
Survival methodology	 Ensured alignment of data presented with pre-specified statistical analysis plan Regardless of cut-off date, survival benefit for AMX0035 consistent
Statistical differences	 Performed additional analyses to investigate assumptions leading to FDA results and all support robustness of data

AMX0035 Gives People Living with ALS More Valuable Time

- Statistically significant and clinically meaningful benefit on both function and survival
- Prespecified primary outcome met and robust across multiple sensitivity analyses and on top of standard of care
- Clinical secondary outcomes measuring clinical decline consistent with primary outcome
- Long-term prespecified time to event outcome met
- ITT overall survival benefit in universally fatal disease

AMX0035 Well-Tolerated with Favorable Safety Profile

- AEs and deaths balanced between treatment and placebo arms
- GI events with AMX0035 more frequent in first 3 weeks
- Fewer SAEs with AMX0035 and most related to ALS progression
- More AEs leading to drug withdrawal with AMX0035 related to GI symptoms
- Most AEs mild or moderate and manageable

Totality of Evidence Supports Positive Benefit / Risk for AMX0035

Benefits

- Benefit on both function and survival in rare, fatal disease with high unmet need
- Prespecified primary efficacy endpoint met
- Multiple sensitivity analyses support primary result
- Favorable safety profile

Risks

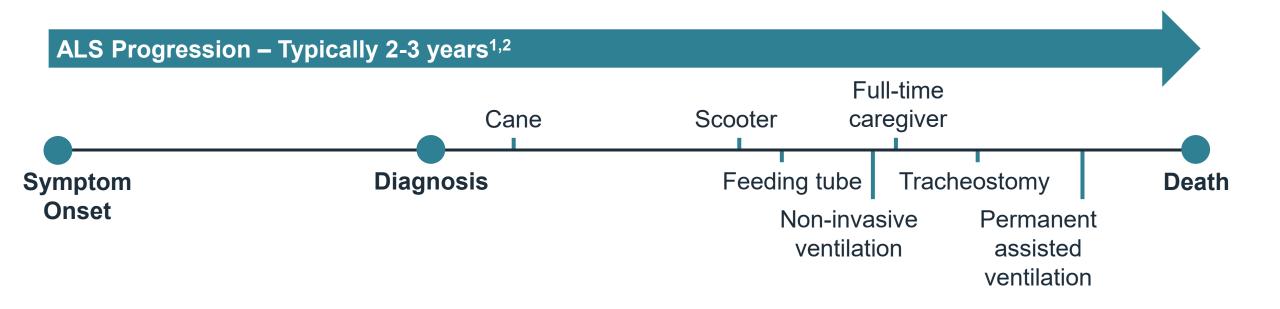
Gl events, generally mild and transient

Clinical Perspective

Sabrina Paganoni, MD, PhD

Co-Director, Neurological Clinical Research Institute and Healey & AMG Center for ALS, Massachusetts General Hospital Associate Professor, Harvard Medical School

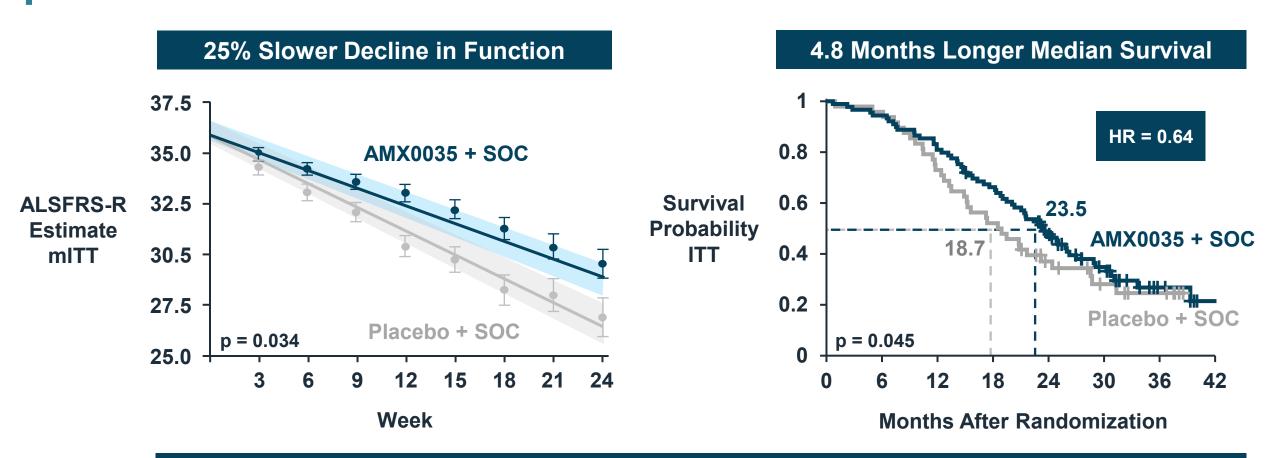
ALS Is Fast Progressing and Universally Fatal



Two currently approved treatments for ALS show either benefit for survival or slowing in functional decline^{3,4,5}

Neither has demonstrated both in trials that led to their approval^{3,4,5}

AMX0035 Combines Benefits to Both Function and Survival



Additional measures of muscle strength, respiratory function, and time to key events support functional and survival outcomes

AMX0035 Favorable Clinical Profile

- Easy to administer by mouth or feeding tube
- Well-tolerated
- Gastrointestinal side effects of nausea, diarrhea, and abdominal pain generally mild or moderate and manageable
- Can be administered with riluzole and/or edaravone

Evidence Supports Use of AMX0035

- Important to look at results in context of rare, fatal disease
- Phase 3 trial underway represents commitment to ALS community
- CENTAUR study met prespecified primary outcome
 - Clinically meaningful benefit on function and survival
 - Favorable safety profile
 - Outcomes that matter to patients

AMX0035

March 30, 2022

Amylyx Pharmaceuticals

Peripheral and Central Nervous System Drugs Advisory Committee