



Larimar Therapeutics

Nomlabofusp Program Update

June 2026

Forward-Looking Statements

This presentation contains forward-looking statements that are based on Larimar's management's beliefs and assumptions and on information currently available to management. All statements contained in this presentation other than statements of historical fact are forward-looking statements, including but not limited to statements regarding Larimar's ability to develop and commercialize nomlabofusp and any other planned product candidates, Larimar's planned research and development efforts, including the timing of its nomlabofusp clinical trials including the dosing of the first participant in a global confirmatory study, interactions and filings with the FDA, the safety and therapeutic potential of nomlabofusp, expectations regarding the timing of the completion of the BLA submission, the expectations of the timing of, and potential for, accelerated approval or accelerated access, time to launch and market and overall development plans and other matters regarding Larimar's business strategies, ability to raise capital, use of capital, results of operations and financial position, and plans and objectives for future operations.

In some cases, you can identify forward-looking statements by the words "may," "will," "could," "would," "should," "expect," "intend," "plan," "anticipate," "believe," "estimate," "predict," "project," "potential," "continue," "ongoing" or the negative of these terms or other comparable terminology, although not all forward-looking statements contain these words. These statements involve risks, uncertainties and other factors that may cause actual results, performance, or achievements to be materially different from the information expressed or implied by these forward-looking statements. These risks, uncertainties and other factors include, among others, the success, cost and timing of Larimar's product development activities, nonclinical studies and clinical trials, including nomlabofusp clinical milestones and continued interactions with the FDA; that preliminary clinical trial results may differ from final clinical trial results, that earlier non-clinical and clinical data and testing of nomlabofusp may not be predictive of the results or success of later non-clinical or clinical trials, and assessments; delays in patient recruitment, including as a result of changes in clinical protocols and adverse events; that the FDA may not ultimately agree with Larimar's nomlabofusp development strategy; Larimar's ability to submit BLA modules on the intended timeline; Larimar's ability to realize the benefits of Breakthrough Therapy Designation; the potential impact of public health crises on Larimar's future clinical trials, manufacturing, regulatory, nonclinical study timelines and operations, and general economic conditions; Larimar's ability and the ability of third-party manufacturers Larimar engages, to optimize and scale nomlabofusp's manufacturing process; Larimar's ability to obtain regulatory approvals for nomlabofusp and future product candidates; Larimar's ability to develop sales and marketing capabilities, whether alone or with potential future collaborators, and to successfully commercialize any approved product candidates; Larimar's ability to raise the necessary capital to conduct its product development activities; and other risks described in the filings made by Larimar with the Securities and Exchange Commission (SEC), including but not limited to Larimar's periodic reports, including the annual report on Form 10-K, quarterly reports on Form 10-Q and current reports on Form 8-K, filed with or furnished to the SEC and available at www.sec.gov. These forward-looking statements are based on a combination of facts and factors currently known by Larimar and its projections of the future, about which it cannot be certain. As a result, the forward-looking statements may not prove to be accurate. The forward-looking statements in this presentation represent Larimar's management's views only as of the date hereof. Larimar undertakes no obligation to update any forward-looking statements for any reason, except as required by law.

Initiated Rolling BLA Submission for Accelerated Approval; Positive Open Label Study Data

Positive Longer-Term OL Data

Skin FXN levels continue to be similar to those of asymptomatic carriers at 6, 12 and 18 months
Improvement in clinical outcome measures with 13 participants at 1 year
Long term dosing continues to be generally well tolerated

FDA Alignment on BLA Submission

Type B meeting minutes indicate current clinical data package is sufficient for submission
Continued willingness to consider FXN as surrogate endpoint; approval will be a matter of review
Initial module submitted for rolling BLA, with submission of remaining modules expected 2H 2026

Plan to Start Confirmatory Global Phase 3

Dosing of first patient expected Q3 2026
Plan to enroll ambulatory patients 2 – 40 years old with 2/3 under the age of 21 years
Sites in U.S., EU, U.K., Canada, and Australia planned

\$200.4 million in cash and investments as of March 31, 2026, with projected cash runway into Q2 2027;
Expect to be eligible for rare pediatric disease priority review voucher.

Alignment with FDA for Submission of BLA Package for Accelerated Approval Following a Multi-disciplinary Type B Pre- BLA Meeting

Existing Clinical Data Package Appears Sufficient for Submission

FDA reviewed OL data submitted in a briefing package and confirmed that the **existing data package appears sufficient** for BLA submission seeking accelerated approval; Approval will be a matter of review

FXN as Novel Surrogate Endpoint

FDA **reaffirmed willingness to consider FXN as a novel surrogate endpoint** and that Larimar's exposure-response analysis linking nomlabofusp exposures to clinical outcomes is the type that could support the BLA submission

First Module of Rolling BLA Submitted

Submission of remaining modules **expected 2H 2026**

Expect to receive PDUFA date at the time of acceptance for filing (60 days following completion of submission)

Comprehensive and Long-Term Data Package

Across All Studies

76

Participants

66

Received at least one dose of nomlabofusp

>10,000

Doses administered to date in the OL study

Open Label Study

32 had nomlabofusp
exposure in prior studies

11 had no nomlabofusp
exposure in prior studies

43 Participants dosed

22 Active

Maximum duration >800 days

21 Discontinued*

~11 Adults and adolescents in screening

Dosing planned over next couple of months

Additional Patients with Longer Exposure Reinforces the Disease Modifying Potential of Nomlabofusp

13 participants completed 1 year of dosing, 7 completed 18 months, and 3 completed 2 years

Increased Tissue FXN Levels

Daily nomlabofusp increased and sustained skin FXN levels

Achieved and maintained skin FXN levels similar to asymptomatic carriers (~50% or higher)

- 82% (9/11) at 6 months
- **100% (9/9) at 1 year**
- **100% (3/3) at 18 months**

Observed Improvement of Clinical Outcomes

At 1-year: a 2.6-point mFARS advantage when nomlabofusp treatment is compared to a FACOMS reference group

At 18 months: a 4.6-point mFARS advantage when nomlabofusp treatment is compared to a calculated value in a FACOMS reference group

Well-Characterized Safety Profile

Long term dosing continues to be generally well tolerated for up to a maximum of 800 days

Most common AEs are mild to moderate injection site reactions that decrease over time

10 cases of anaphylaxis, 9 with exposure to nomlabofusp in a prior study

Friedreich's Ataxia (FA): A rare, debilitating and progressive disease

Affects ~20,000 patients globally

~5,000 patients in the U.S., with a concentration of patients in Europe
~70% of patients present before age 14

Caused by a genetic defect that lowers frataxin levels

Most patients with FA only produce ~20-40% of normal frataxin levels*

Heterozygous carriers

Asymptomatic with FXN levels of 50-75%* of normal frataxin levels

Progressive, debilitating disease with early mortality

Characterized by loss of coordination, slurred speech, difficulty swallowing, scoliosis, diabetes, and cardiovascular disease
Life expectancy 30-50 years, with early death usually caused by heart disease

High unmet medical need

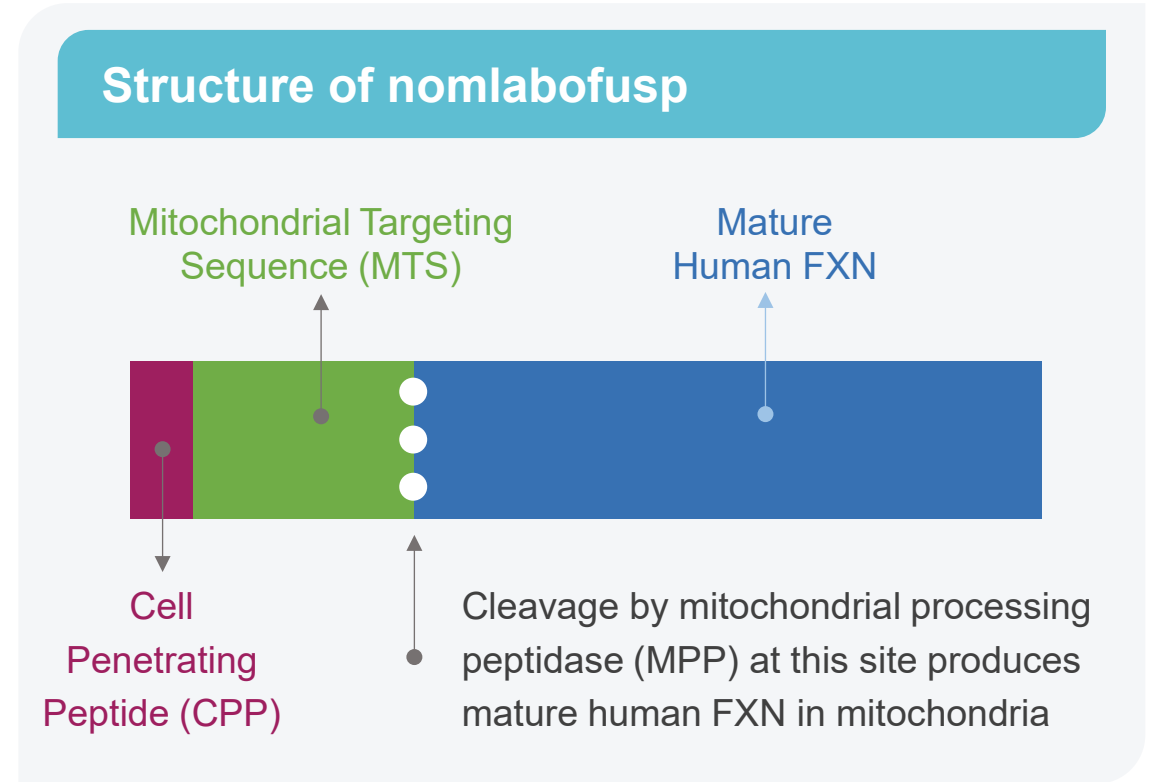
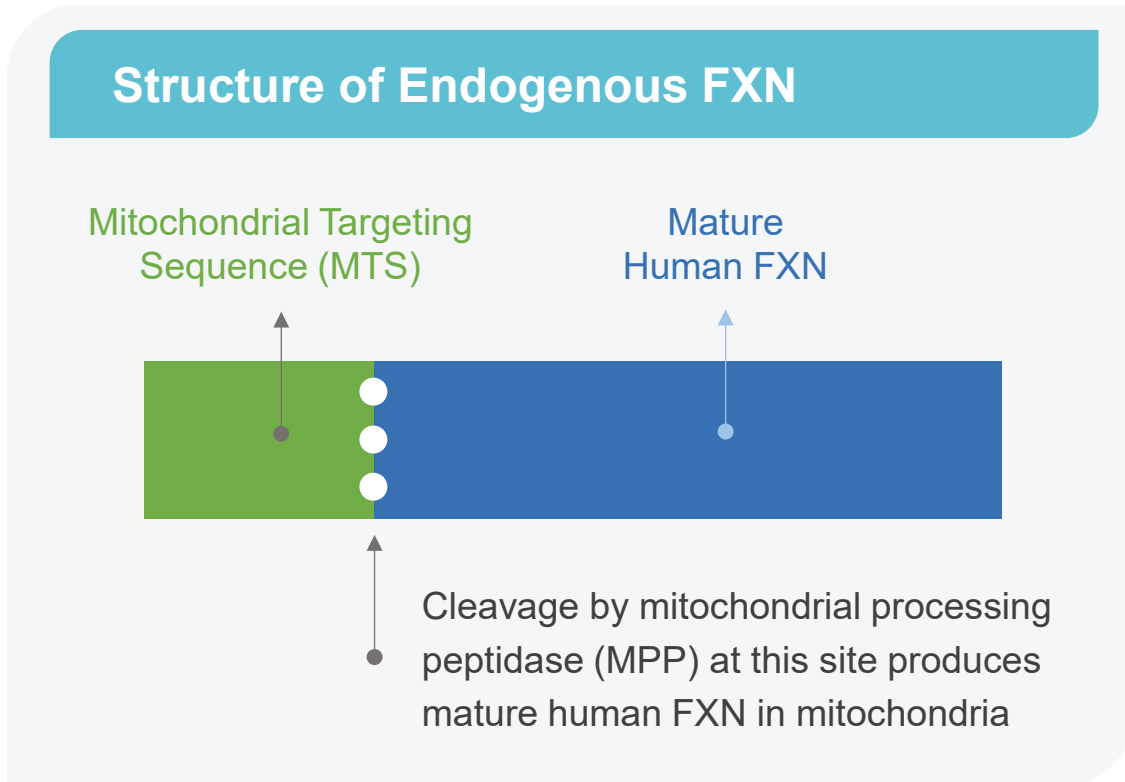
The only currently approved treatment for FA does not address frataxin deficiency



Larimar is developing nomlabofusp as the first potential disease modifying therapy for FA. Intended to help patients avoid profound suffering and maintain or improve their quality of life.

Nomlabofusp is Designed to Target the Root Cause of FA, FXN Deficiency

Nomlabofusp (CTI-1601) maintains the cleavage site between the MTS and mature human frataxin (FXN)



The presence of the cleavage site allows the CPP and MTS to be removed by mitochondrial processing peptidase to produce mature human FXN in the mitochondria

Nomlabofusp Awarded Multiple U.S., EU, and U.K. Regulatory Designations Intended to Expedite the Development Program

US DESIGNATIONS

Breakthrough Therapy Designation

START Pilot Program

Orphan Drug Designation

Fast Track Designation

Rare Pediatric Disease Designation

Rare pediatric disease priority review voucher program extended to 2029;
Expected to be available at time of approval

GLOBAL DESIGNATIONS

Orphan Drug Designation (EU)

PRIME Designation (EU)

Innovative Licensing and

Access Pathway (ILAP) (UK)



Nomlabofusp Long-term Open Label Study (Ongoing)

Expanded Open Label Study*: Now Includes Adolescents and Participants not in Prior Nomlabofusp Studies

Patient Population

Initially, adults who had participated in a prior Phase 1 or Phase 2 trial required

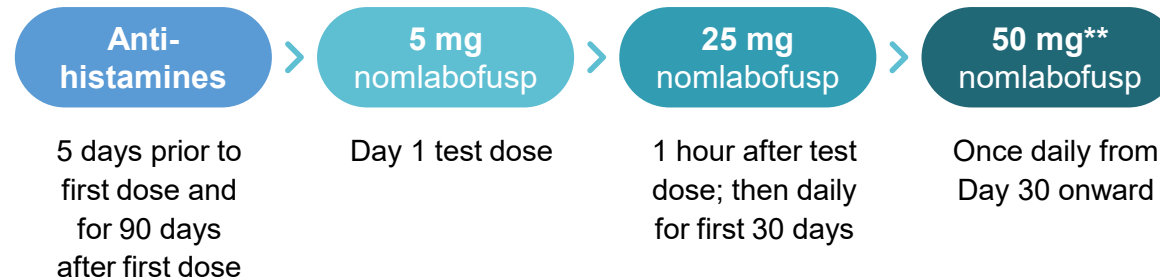
Expanded study criteria to include:

- Adolescents (12-17 yrs) from the PK run-in study
- Adult and adolescent participants not in prior studies

Plan to enroll children (2 to 11 yrs) directly in study

Dosing and Administration

Current Dose Regimen



Key Study Objectives

- Skin FXN concentrations
- Safety and tolerability
- Long-term PK
- Clinical efficacy measures relative to reference population from Friedreich's Ataxia Clinical Outcome Measures Study (FACOMS) database

FACOMS is a longitudinal natural history study, includes patients with confirmed FA diagnosis

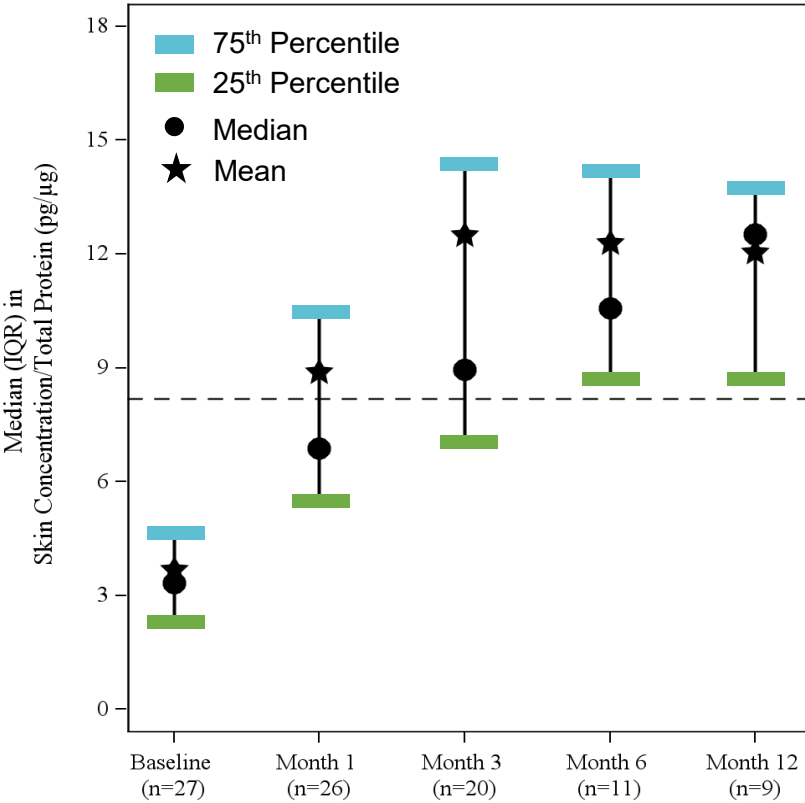
Participant Characteristics Represent a Broad Range of Disease Severity

OL Study	Nomlabofusp* N = 41
Age of Screening (Years)	
Mean (SD)	29.0 (11.30)
Min, Max	12, 55
Age Group	
≥12 to <18	8 (19.5)
≥18	33 (80.5)
Age of Symptom Onset (Years)	
Mean (SD)	12.4 (5.98)
Min, Max	5, 30
Sex	
Male, n (%)	17 (41.5)
Ambulatory Status	
Ambulatory, n (%)	21 (51.2)
Previous Exposure to Nomlabofusp	
Yes, n (%)	31 (75.6)

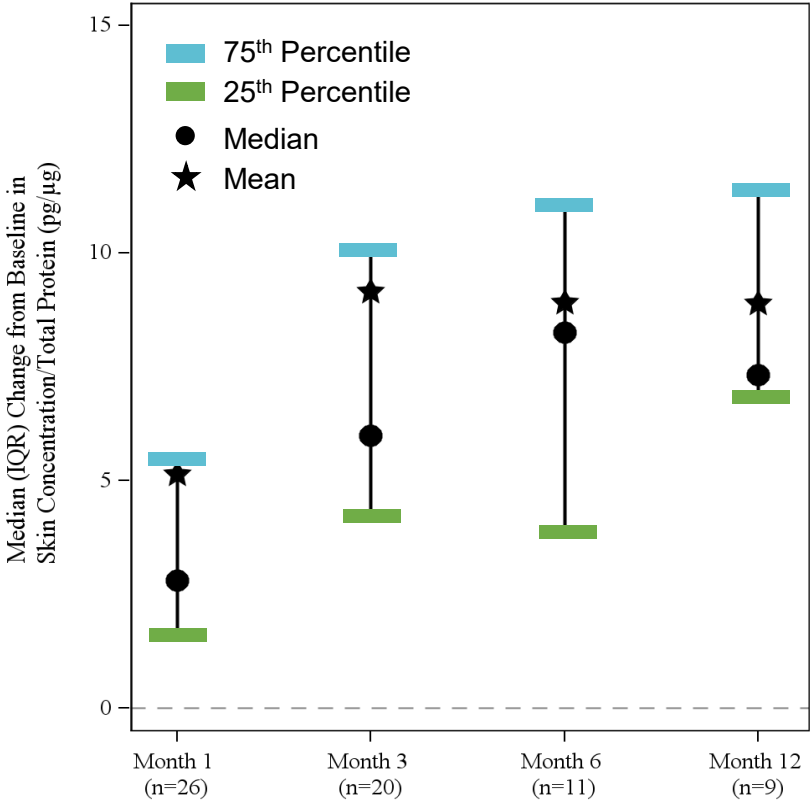
OL Study	Nomlabofusp* N = 41
Previous Exposure to Omaveloxolone	
Yes, n (%)	20 (48.8)
Gait Score, n (%)	
1 - Mild ataxia	4 (9.7)
2 - Walks with definite ataxia	4 (9.7)
3 - Moderate ataxia	5 (12.2)
4 - Severe ataxia	8 (19.5)
5 - Cannot walk with assistance (wheelchair bound)	20 (48.8)
mFARS Total Score	
Mean (SD)	54.99 (16.96)
Min, Max	16.8, 85.5
9-HPT Average Time of the Dominant Hand(s)	
Mean (SD)	93.79 (65.5)
Min, Max	36.0, 277.3
FARS-ADL Score	
Mean (SD)	17.1 (7.1)
Min, Max	0.0, 27.0

Increases in Skin FXN Levels* Reached Steady State by 3 Months and were Sustained Over Time

Skin FXN Levels*



Change from Baseline in Skin FXN Levels*



*FXN levels measured via detection of peptide derived from mature FXN; FXN concentrations are normalized to total cellular protein content in each sample. Dotted Line indicates 50% of the average FXN concentrations of healthy volunteers. Data include all participants with quantifiable FXN levels at baseline and at least 1 post-baseline FXN level. Data are presented as of the March 2026 cutoff date.

Nomlabofusp Treatment Increased and Sustained FXN Levels in Open Label Study to Range Expected in Asymptomatic Carriers

% of Participants with Skin FXN Levels in the Range of Asymptomatic Heterozygous Carriers (> 8.2 pg/μg; ~50% of Mean Healthy Volunteer FXN Concentration)

Baseline	1 month	3 months	6 months	1 year	18 months
4% 1/27	38% 10/26	50% 10/20	82% 9/11	100% 9/9	100% 3/3

Absolute Skin FXN Levels* Increased Over Time with Nomlabofusp Treatment

Statistic	Baseline	1 month	3 months	6 months	1 year	18 months
<i>N</i>	27	26	20	11	9	3
Mean	3.7	8.9	12.5	12.3	12.1	10.7
(Min, Max)	(1.5, 8.8)	(2.9, 22.9)	(5.6, 37.1)	(5.6, 26.7)	(8.1, 16.1)	(9.9, 11.8)

*Data include all participants with quantifiable levels at each measurement point who had received 25 mg, 50 mg or had the dose increased from 25 mg to 50 mg. Data are presented as of the March 2026 cutoff date.

Safety Profile of Nomlabofusp Administration is Well-Characterized

Nomlabofusp is generally well-tolerated long-term; >10,000 doses have been administered in the OL study

- Most common adverse events were local injection site reactions that were mild to moderate, decreased in frequency over time, and did not lead to any withdrawals from the study
- 21 participants discontinued
 - 10 experienced anaphylaxis
 - 9 with prior nomlabofusp exposure; one with no prior exposure
 - These participants returned to their usual state of health after standard treatment with no further sequelae
 - 3 experienced generalized urticaria (none since initiating antihistamine therapy)
 - 8 withdrew (3 associated with other adverse events)
- 11 participants with no prior exposure; one had anaphylaxis
- Long-term daily dosing was generally well tolerated with 13 adults on treatment for 1 year, 7 for 18 months, and 3 for 2 years

Baseline Characteristics Used to Generate FACOMS Reference Group

Methodology for generating reference group was reviewed by FDA and recommendations were incorporated

	Nomlabofusp* N = 41	FACOMS N = 362
Age of screening (years)		
Mean (SD)	29.0 (11.30)	25.6 (9.55)
Min, Max	12, 55	12, 55
Age of symptom onset (years)		
Mean (SD)	12.4 (5.98)	12.6 (5.25)
Min, Max	5, 30	5,30
Baseline mFARS Total Score		
Mean (SD)	55.0 (16.96)	50.6 (13.19)
Min, Max	16.8, 85.5	24.0, 83.0

	Nomlabofusp* N = 41	FACOMS N = 362
Baseline FARS-ADL Overall Score		
Mean (SD)	17.1 (7.1)	14.7 (5.30)
Min, Max	0, 27	2, 27
Baseline 9-HPT Average Time of Dominant Hand(s)		
Mean (SD)	93.8 (65.5)	75.4 (42.45)
Min, Max	36.0, 277.3	36.0, 262.1

FACOMS longitudinal natural history study (N = 955) includes participants with confirmed FA diagnosis
 Larimar identified participants from the FACOMS dataset with similar range of baseline characteristics of participants in the OL study using data recorded over the last 2 years for each participant

Improvements Across Clinical Outcomes with Nomlabofusp Relative to Worsening in FACOMS Reference Group Supports Potential Clinical Benefits

Comparison to external reference group intended to support the use of FXN for an accelerated approval

Clinical Outcome Measure Change from Baseline, Mean (Range)								
	mFARS [0- 93]		FARS-ADL [0- 36]		9-HPT Dominant Hand [Seconds]		MFIS [0- 84]	
	Nomlabofusp	FACOMS ¹	Nomlabofusp	FACOMS ¹	Nomlabofusp	FACOMS ¹	Nomlabofusp	FACOMS ¹
Baseline	55.0 (16.8, 85.5) n=41	50.6 (24.0, 83.0) n=362	17.1 (0.0, 27.0) n=41	14.7 (1.5, 27.0) n=362	93.8 (36.0, 277.3) n=37	75.4 (36.0, 262.1) n=362	34.5 (2.0, 79.0) n=41	NA
Change at 1 year	-1.0 (-6.5, 3.0) n=13	1.6 (-15.7, 18.0) n=189	-1.1 (-9.0, 2.5) n=13	1.5 (-5.5, 9.0) n=211	-15.6 (-46.7, 15.4) n=12	6.1 (-40.1, 203.7) n=194	-5.2 (-25.0, 10.0) n=13	NA
Change at 18 months	-2.3 (-10.0, 4.5) n=7	2.3²	-0.3 (-1.5, 1.0) n=7	NA	-11.8 (-13.6, 6.5) n=7	NA	0.6 (-16.0, 15.0) n=7	NA

Range = min, max

Data are presented as of the March 2026 cutoff date.

¹ Based on the range of baseline characteristics of participants in the OL study, Larimar identified patients from the FACOMS dataset with similar characteristics using data recorded over the last 4 years for each patient.

² Data collected annually in FACOMS; 18-month value was interpolated using a linear equation constructed with annual data up to 3 years.

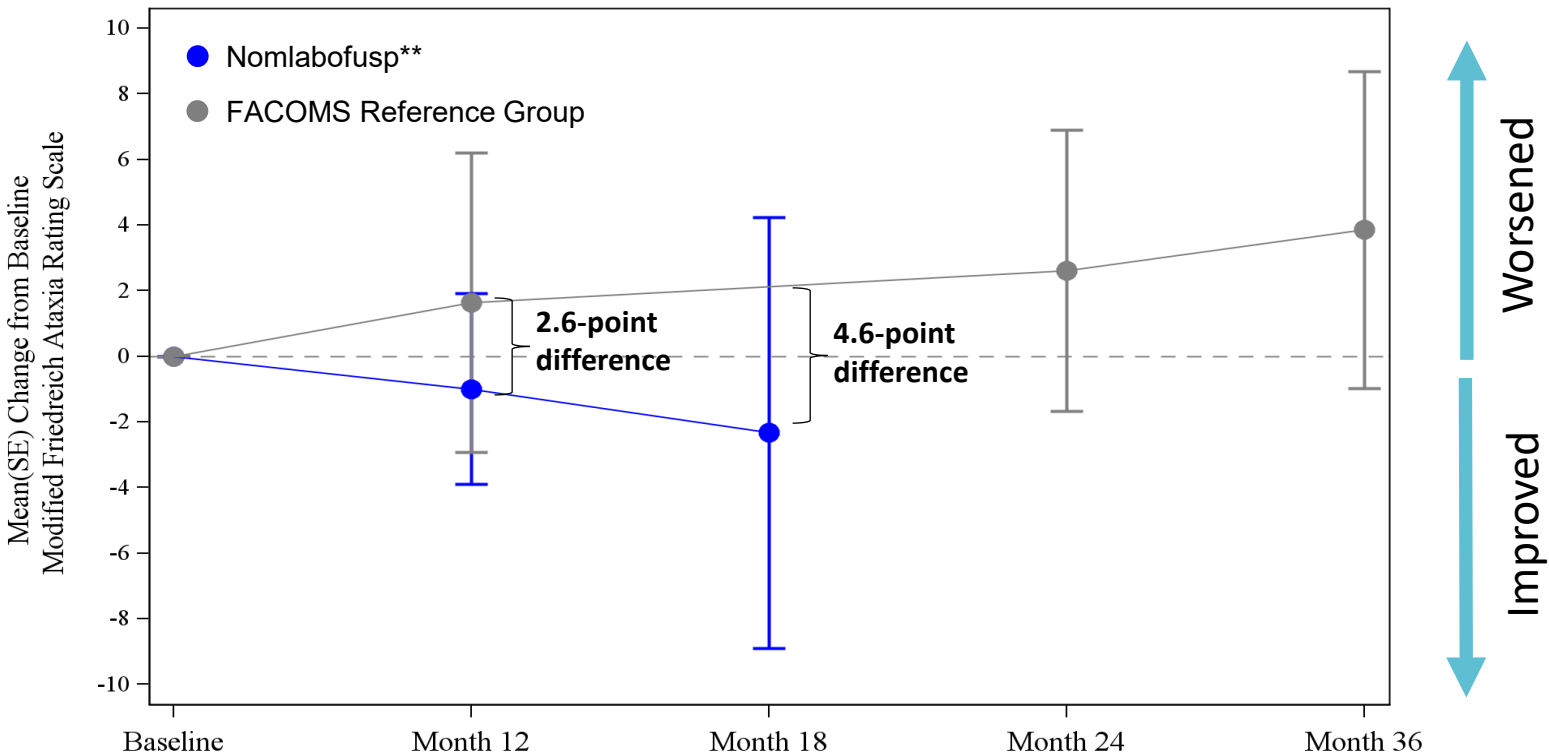
2.6-point Difference in Mean mFARS Score for Nomlabofusp Treated Participants and FACOMS Reference Group at 1 year

A 4.6-point calculated* difference in mean mFARS score for treated participants and FACOMS Reference Group at 18 months

Change from baseline after treatment with nomlabofusp in OL study:

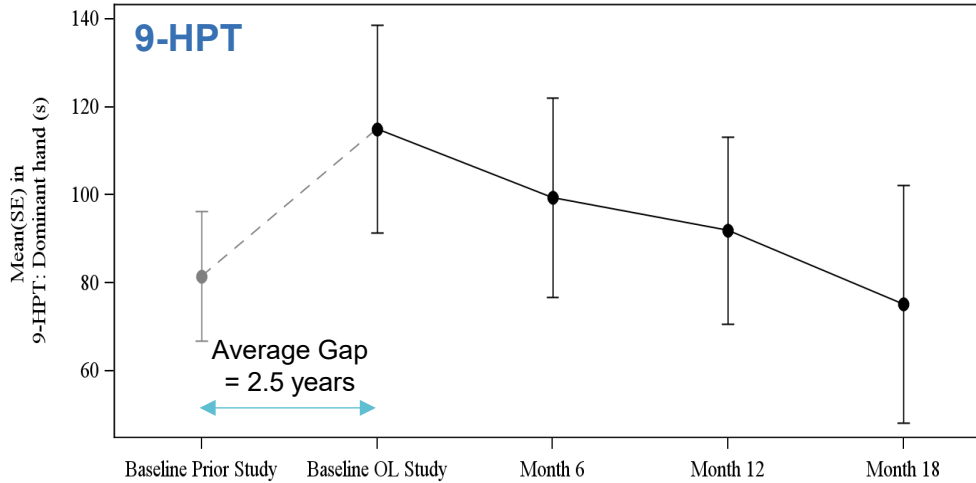
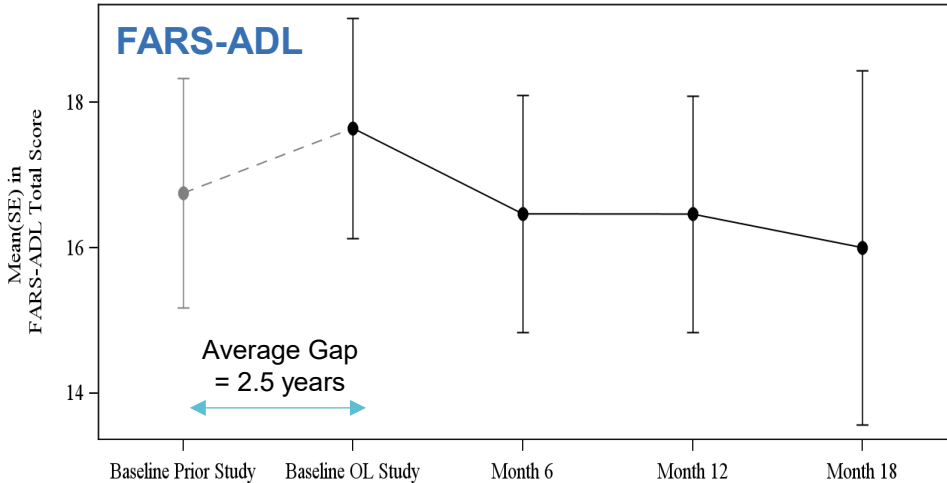
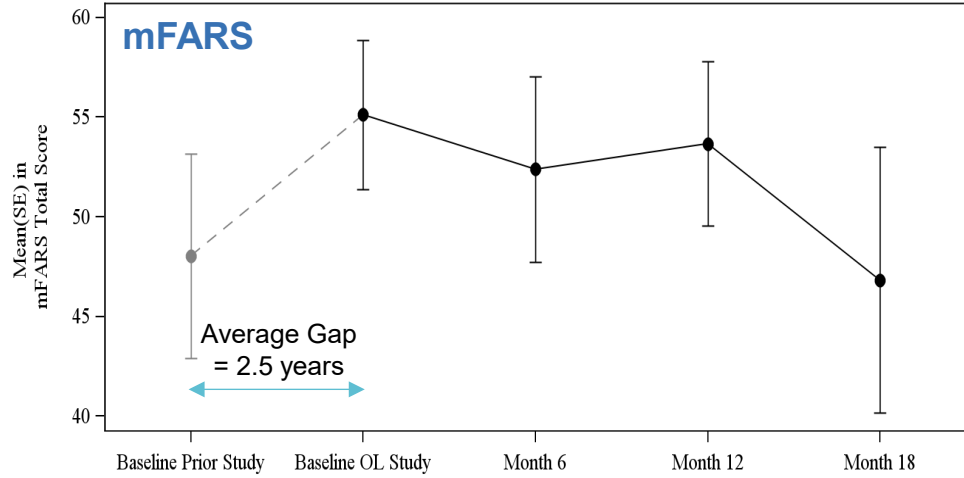
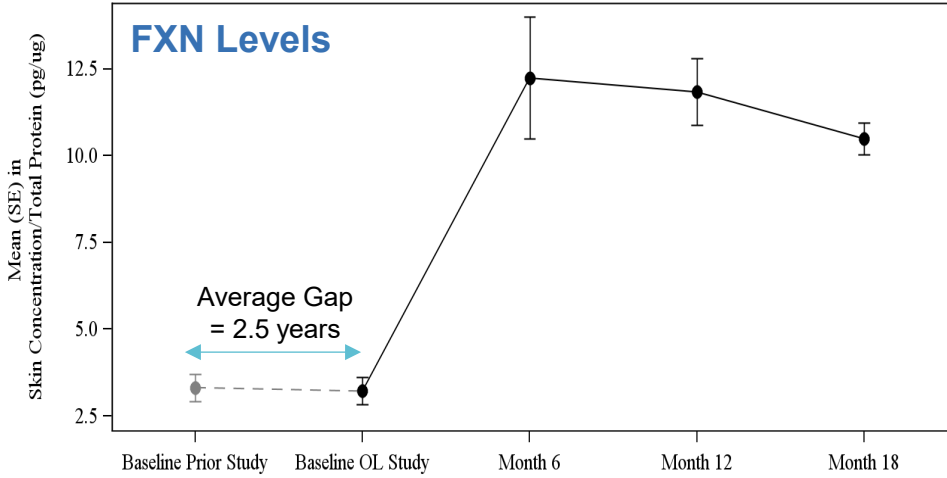
- Mean 1.0-point improvement at 1 year in 13 participants
- Mean 2.3-point improvement at 18 months in 7 participants

Change in mFARS



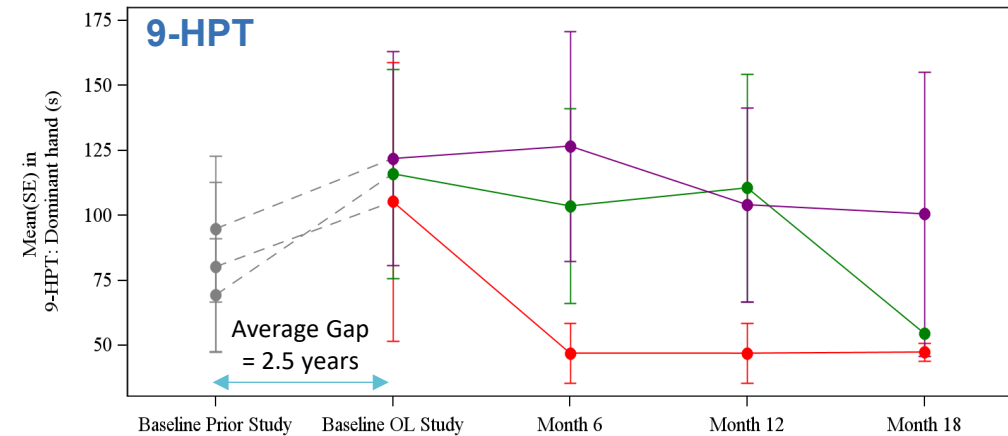
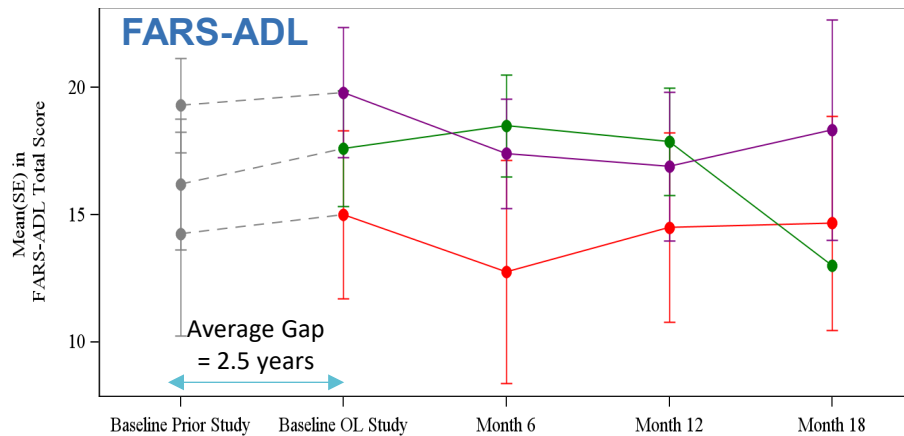
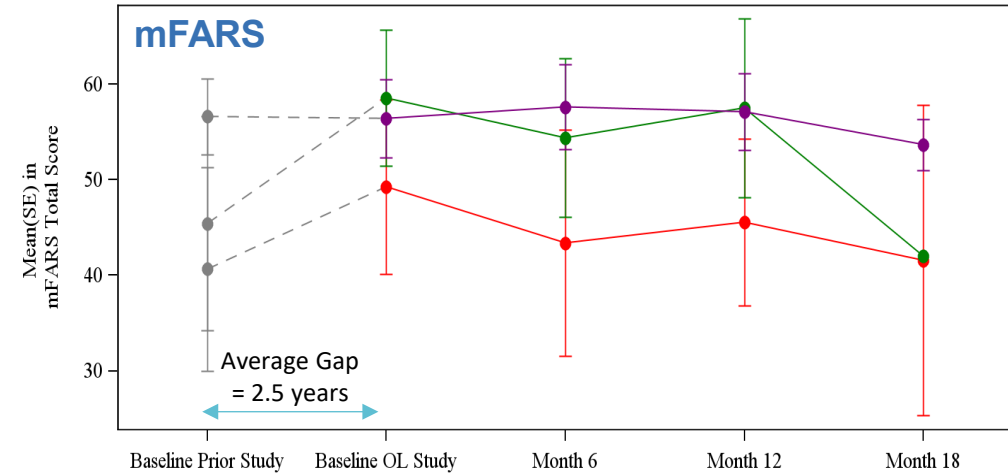
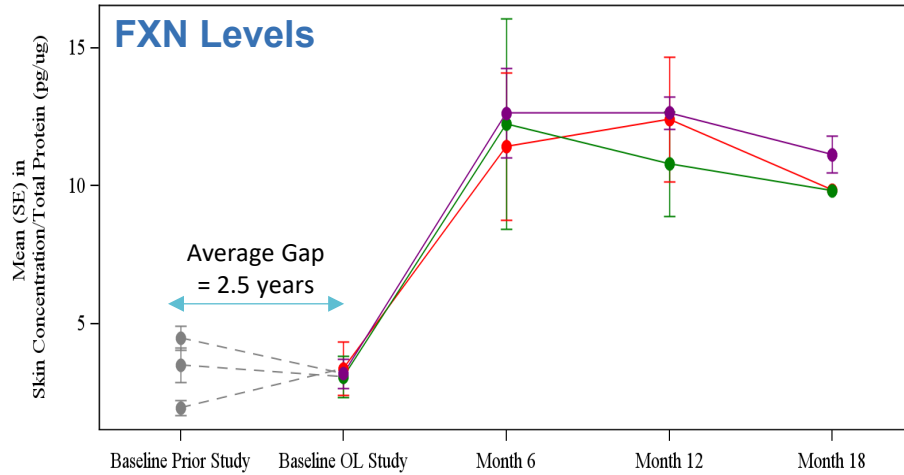
* Data collected annually in FACOMS; 18-month value was interpolated using a linear equation constructed with annual data up to 3 years
 ** N at 1 year = 13; N at 18 months = 7

Patients Who Worsened Between Prior Nomlabofusp Study and OL Study Improved On Key Clinical Outcome Measures During Treatment



OL study: N at 1 year = 13; N at 18 months = 7

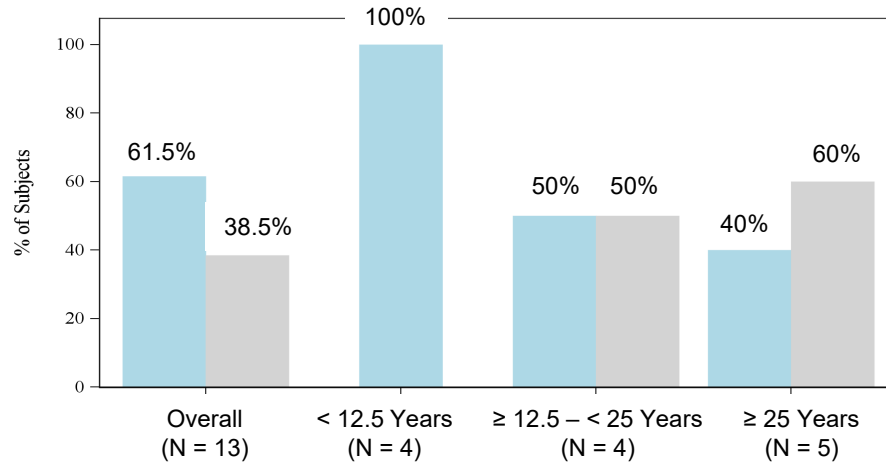
Different Clinical Outcome Measures May Be More Or Less Sensitive At Different Points In A Patient's Disease Course



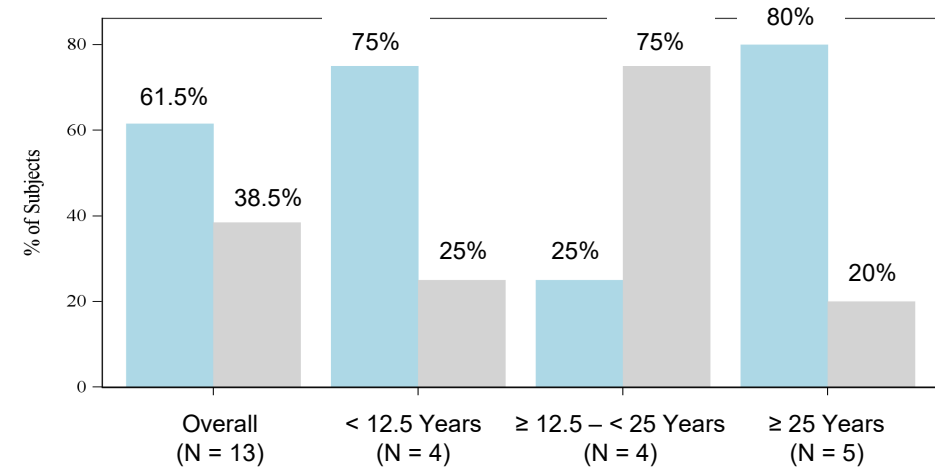
● < 12.5 Years Duration ● ≥ 12.5 – <25 Years Duration ● ≥ 25 Years Duration

Majority Achieved Improvement at 1 Year With Certain Outcome Measures More Sensitive at Different Times in Disease Course

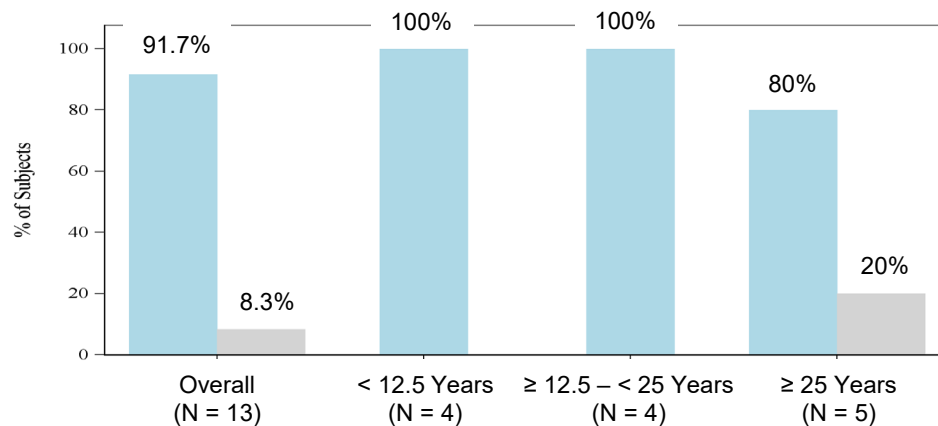
mFARS



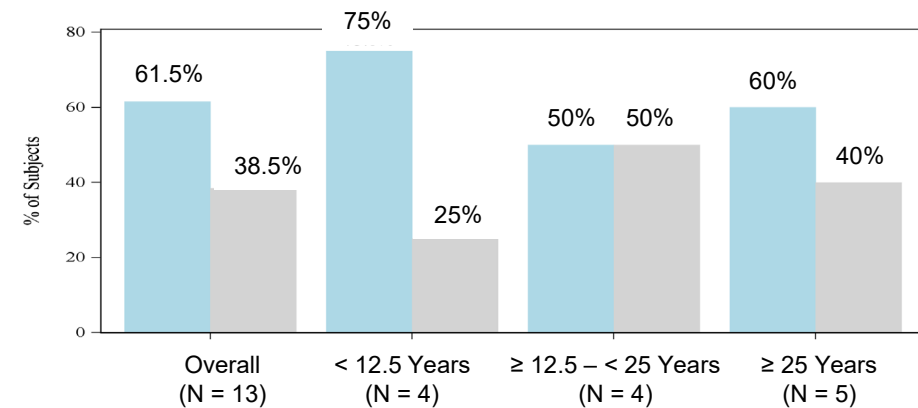
FARS-ADL



9-HPT



MFIS



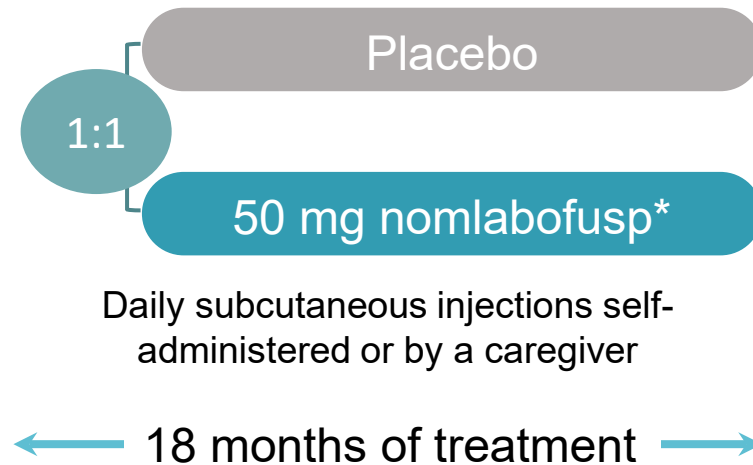
Global Confirmatory Phase 3 Double-blind Placebo-Controlled Study

Dosing of first patient expected Q3 2026

Patient Population

- Ambulatory participants
- 2 – 40** years of age (~2/3 under 21 years of age)
- n = 100 – 150

Sites in U.S., E.U., U.K.,
Canada, and Australia planned



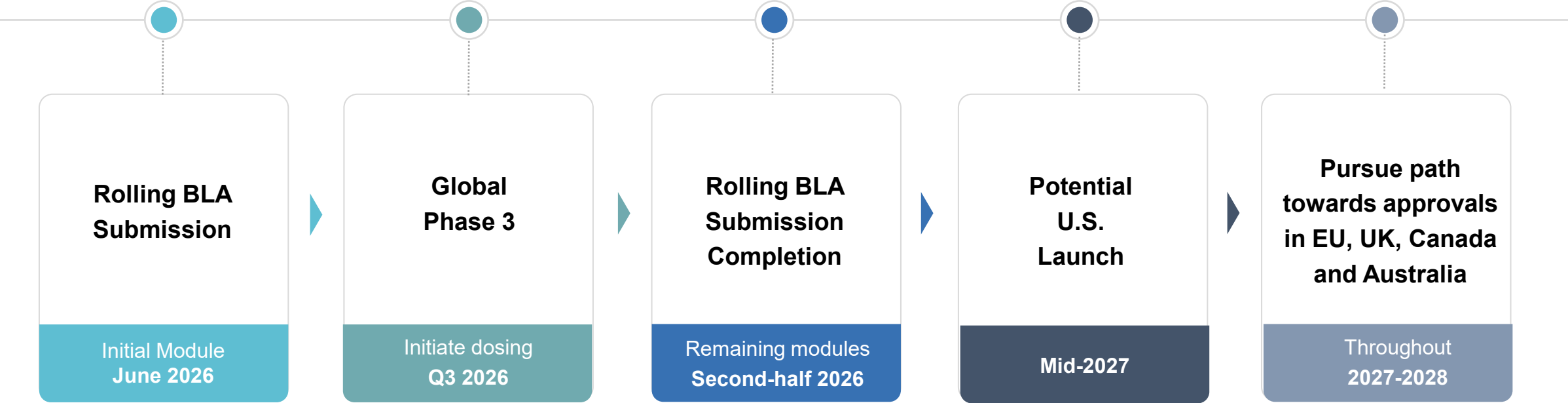
Key Study Objectives

- Safety and tolerability
- Upright stability (U.S.) and mFARS (EU) as primary outcome measures

Phase 3 participants differ from OL study, with all expected to be ambulatory and ~2/3 under age 21

Rolling BLA Initiated and First Module Submitted; Final Modules Expected 2H 2026

Anticipated Program Milestones



Nomlabofusp Advancing as the First Potential Disease Modifying Therapy for Broad FA Population

Rolling BLA submission initiated
First module submitted
Completion expected 2H 2026

Dosing of first patient in global
Phase 3 trial expected Q3 2026

Well-characterized and generally well-
tolerated long term safety profile

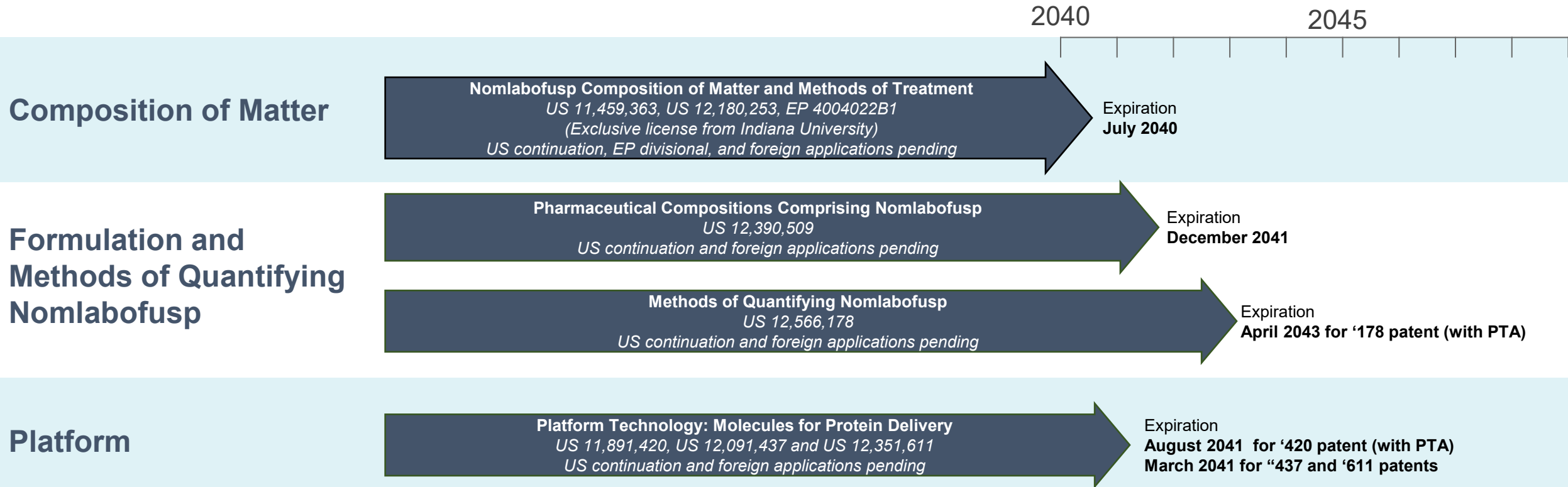
Sustained FXN levels up to 18 months;
Improvements in clinical outcomes at 1 year
and at 18 months; Pursuit of broad label
potentially supported by OL study data



Appendix

Larimar Technology is Supported by a Strong IP Portfolio

Granted nomlabofusp (CTI-1601) composition of matter patent extends into 2040



Additional nomlabofusp IP protection

- US and foreign pending applications and patents cover key biomarkers, analytical tools and methods of treatment for additional disease indications for nomlabofusp
- Nomlabofusp should be eligible for **12 years of market exclusivity** upon approval in the US (independent of patents) and at least **10 years of market exclusivity** upon approval in EU (independent of patents)