

Larimar Therapeutics Corporate Deck

June 2024

Forward-Looking Statements

This presentation contains forward-looking statements that are based on the beliefs and assumptions of Larimar Therapeutics, Inc. ("Company") 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 Larimar's ability to develop and commercialize nomlabofusp (CTI-1601) and other planned product candidates, Larimar's planned research and development efforts, including the timing of its nomlabofusp clinical trials, expectations with respect to the FDA START pilot program, interactions with the FDA and overall development plan 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," "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 clinical trials, and assessments; that the FDA may not ultimately agree with Larimar's nomlabofusp development strategy; 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.



Clinical-Stage Novel Protein Replacement Therapy Platform

Potential first therapy to increase frataxin levels

Lead candidate nomlabofusp is a recombinant fusion protein designed to directly address frataxin deficiency in patients with FA by delivering the protein to mitochondria. Granted Orphan Drug (US & EU), Rare Pediatric Disease (US), Fast Track (US), & PRIME (EU) designations. **Recently selected by FDA to participate in its START pilot program**

Consistent Phase 1 and Phase 2 findings

Nomlabofusp was generally well tolerated and demonstrated dose-dependent increases in frataxin (FXN) levels from baseline in skin and buccal cells in a completed 4-week placebo-controlled Phase 2 study and a completed multiple ascending dose Phase 1 study

Intend to pursue accelerated approval with FDA

FDA acknowledgement that FXN deficiency appears to be critical to the pathogenic mechanism of FA, and that there continues to be an unmet need for treatments that address the underlying disease pathophysiology. Discussions to support an accelerated approval are ongoing. BLA submission targeted for 2H 2025

OLE study with near-term catalysts

Dosed first patient in OLE study with 25 mg daily dosing in Q1 2024 with **interim data expected in Q4 2024**Continuing to enroll patients and activate additional sites

In May 2024, the FDA removed the partial clinical hold

Dose escalation to 50 mg planned following further characterization of FXN pharmacodynamics at the 25 mg dose

Strong financial foundation

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Nomlabofusp Selected by FDA for START Pilot Program

Highlights FDA commitment to augment formal meetings with more rapid, ad-hoc communications to accelerate program development of rare diseases

START Pilot Program

Support for Clinical Trials Advancing Rare Disease Therapeutics

A new milestone-driven program launched by the FDA in September 2023

Designed to accelerate development of novel therapies intended to address unmet medical needs in rare diseases

Initial selection of up to 6* novel drugs

- 3 products by CDER (nomlabofusp) for rare neurodegenerative conditions
- 3 products by CBER for cell and gene therapy

CDER Selection Based On

Demonstrated development **program readiness** (e.g., sponsors who demonstrate the ability to move the program towards a marketing application)

Potential to address serious and unmet medical need in a rare neurodegenerative condition

Alignment of CMC development timelines with clinical development plans

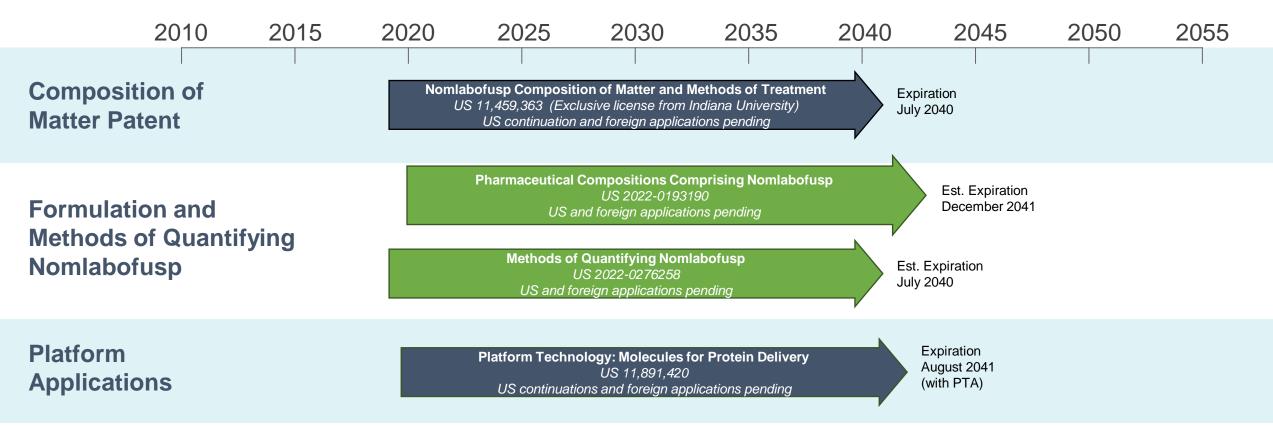
Proposed plan where **enhanced communication can improve efficiency of product development**



^{*}Per Pink Sheet article (6.6.24), 7 novel drugs were selected

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 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)



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

Genetic defect on both alleles lowers frataxin levels

Most patients with FA only produce ~20-40% of normal frataxin levels depending on the tissue, sampling technique, and assay considered*



Affects ~20,000 patients globally

~5,000 patients in the U.S., with most remaining patients in the EU

~70% of patients present before age 14

Progressive disease

Initial symptoms include unsteady posture and frequent falling, and patients are eventually confined to a wheelchair Life expectancy of 30-50 years with an early death usually caused by heart disease

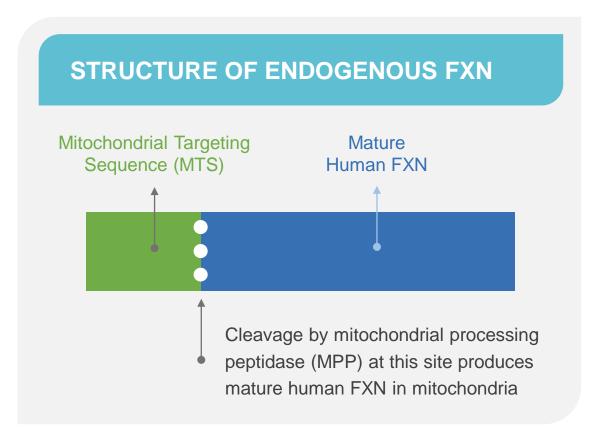
No approved therapies increase frataxin levels

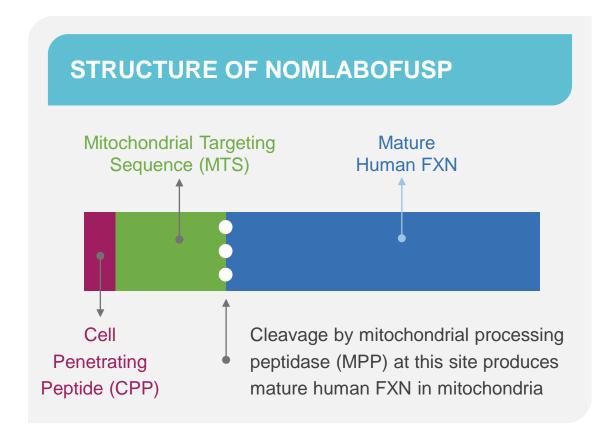
Only treatment approved for FA does not address frataxin deficiency



Nomlabofusp is Designed to Deliver Additional Frataxin

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



FXN Levels Predict Disease Progression in FA

Lower FXN levels are associated with earlier onset of disease, faster rate of disease progression, and shorter time to loss of ambulation

Median Age of Onset and Rate of Disease Progression in Relation to FXN Levels

FXN Level* **Age of Onset** FARS** (% of Normal Level) (Change/Year) (Years) 11.2 2.9 22.0 11 2.1 31.0 16 2.0 48.7 19 1.6

Adapted from H.L.Plasterer et al. PLoS ONE 2013 8(5):e63958

Median Age of Onset Predicts Time to Loss of Ambulation

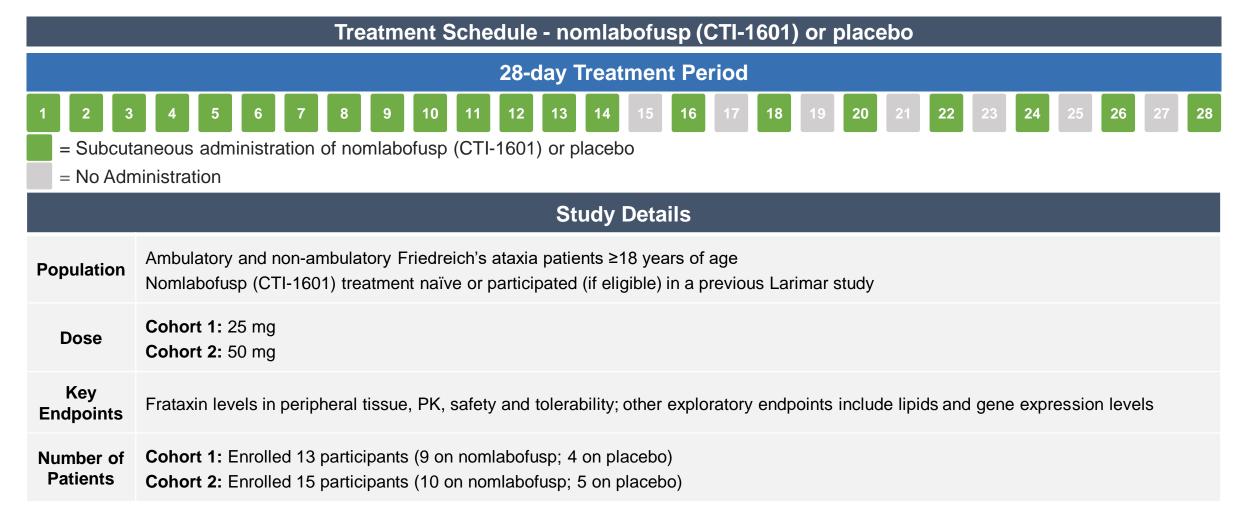
Age of Onset (Years)	Median Time to Loss of Ambulation (Years)
< 15	11.5
15 to 24	18.3
> 24	23.5

Adapted from C. Rummey et al. EClinicalMedicine. 2020 18:100213



Completed Ph 2 Dose Exploration Study (25 & 50 mg Cohorts)

Goal: Further characterize PK/PD and assess safety to inform long-term dose and dose regimen



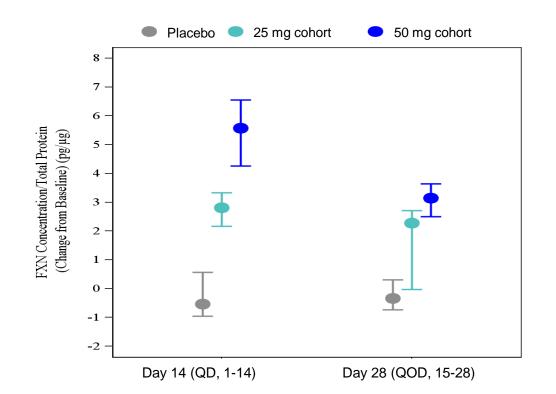


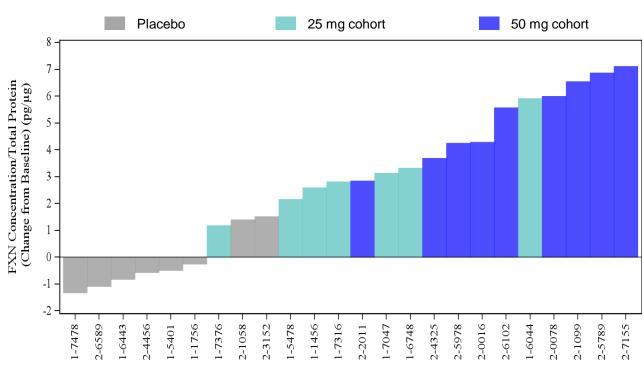
Dose-Dependent Increase in FXN Levels in Skin Cells

Participants dosed daily for 14 days, then every other day until day 28



FXN Levels* in Skin Cells Change from Baseline at Day 14

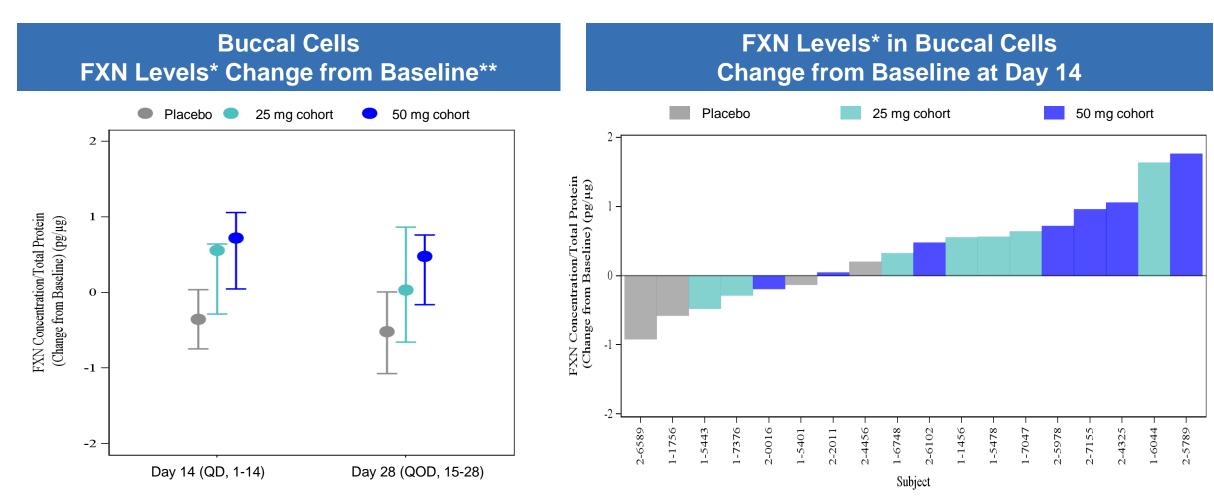






Dose-Dependent Increase in FXN Levels in Buccal Cells

Participants dosed daily for 14 days, then every other day until day 28





Absolute Increases in Skin FXN Levels

Dose response in tissue FXN concentrations and increases from baseline after dosing

Day 14 Skin FXN Levels							
Dane	V:-:4	Absolute Values (pg/μg)					
Dose	Visit -	Median	Mean				
	Baseline	3.70	3.38				
25 mg	Day 14	5.53	6.40				
	Change from Baseline	2.81	3.02				
	Baseline	2.12	2.08				
50 mg	Day 14	7.40	7.32				
30 mg	Change from Baseline	5.57	5.24				

Day 28 Skin FXN Levels							
Daga	Vioit	Absolute Values (pg/μg)					
Dose	Visit	Median	Mean				
	Baseline	3.70	3.38				
25 mg	Day 28	4.39	4.80				
_59	Change from Baseline	2.28	1.41				
	Baseline	2.12	2.08				
50 mg	Day 28	5.23	5.24				
9	Change from Baseline	3.14	3.17				



Absolute Increases in Buccal FXN Levels

Dose response in tissue FXN concentrations and increases from baseline after dosing

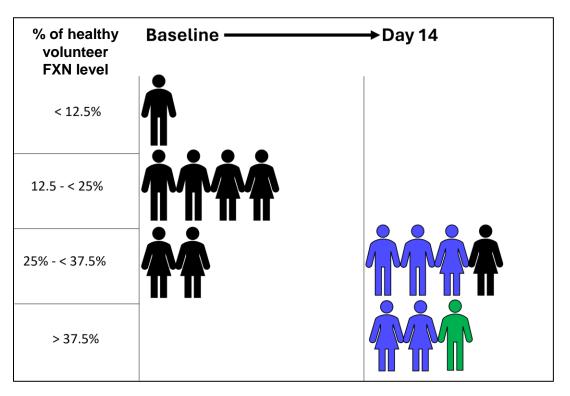
Day 14 Buccal FXN Levels							
Dana	V:-:4	Absolute Values (pg/μg)					
Dose	Visit	Median	Mean				
	Baseline	1.78	1.80				
25 mg	Day 14	2.24	2.22				
20 mg	Change from Baseline	0.56	0.42				
	Baseline	1.61	1.69				
50 mg	Day 14	2.44	2.38				
	Change from Baseline	0.72	0.69				

Day 28 Buccal FXN Levels							
Dana	V:-:4	Absolute Values (pg/μg					
Dose	Visit	Median	Mean				
	Baseline	1.70	1.65				
25 mg	Day 28	1.73	1.76				
20 mg	Change from Baseline	0.03	0.11				
	Baseline	1.76	1.77				
50 mg	Day 28	2.15	2.15				
	Change from Baseline	0.48	0.38				

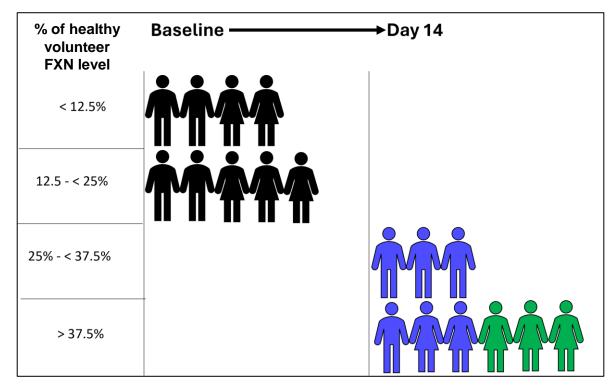


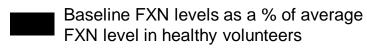
Skin Cell FXN Levels Achieve Higher % of Healthy Volunteers* Following 14 days of Daily Nomlabofusp

25 mg of Nomlabofusp



50 mg of Nomlabofusp







FXN levels increased from baseline and reached 25% to < 50% of average FXN level in healthy volunteers

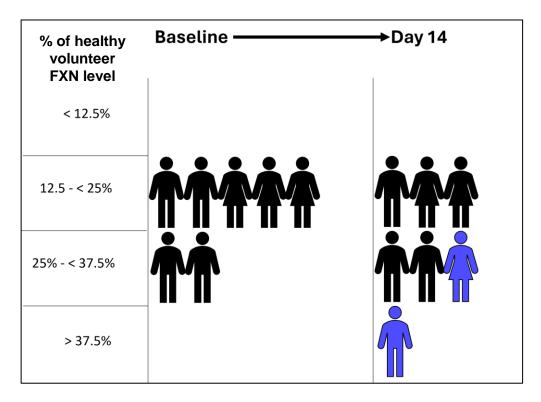


FXN levels increased from baseline and reached > 50% of average FXN level in healthy volunteers

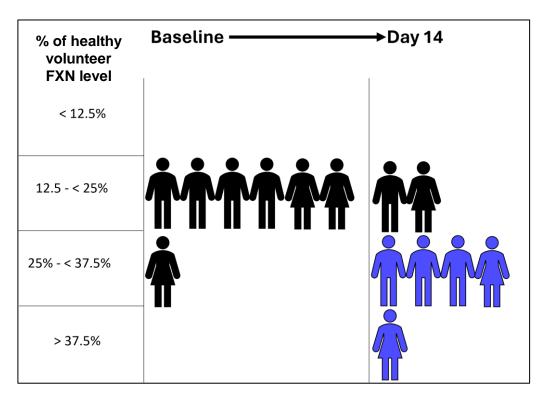


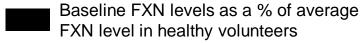
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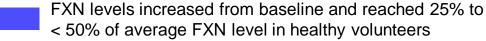
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Nomlabofusp: Predictable Pharmacokinetics



Quick absorption after subcutaneous administration



Dose-proportional increases in exposure observed



Pharmacokinetic profile consistent with Phase 1 studies



Ph1 & Ph2 Data: Nomlabofusp is Generally Well Tolerated



61 patients have participated in our Phase 1 and Phase 2 studies with no serious adverse events in any nomlabofusp clinical study. One severe adverse event occurred, an allergic reaction that resolved with standard treatment referenced below.



44 of 46 clinical trial participants dosed with nomlabofusp completed their respective study

One Phase 2 participant in the 25 mg cohort withdrew due to allergic reaction that resolved with standard treatment One Phase 1 participant in the 50 mg cohort withdrew due to mild-to-moderate nausea and vomiting



Most common adverse events (AEs) were mild and moderate injection site reactions (ISRs)

No study discontinuations due to ISRs and all resolved



Open-label Extension Study: Dosed first patient in Q1 2024

Preliminary interim data expected in Q4 2024

Key Eligibility Criteria

Previous participation in Phase 1 or Phase 2 trials

Daily subcutaneous injection of 25 mg nomlabofusp;

self-administered or by a caregiver

- First site initiated
- First patient dosed in March 2024
- Continuing to enroll patients and activate additional sites

Key Study Objectives

- Safety and tolerability
- Long-term PK
- Dose escalation to 50 mg planned following further characterization of FXN pharmacodynamics at 25 mg dose
- Tissue FXN concentrations and potential use as surrogate endpoint to support accelerated approval
- Clinical efficacy measures compared to the matched set of untreated patients from FACOMS* database

Screening Period ≤ 42 days**

Treatment Period Planned for ≥ 1 year

Potential extensions



Nomlabofusp Clinical Development Plan

In May 2024, the FDA removed the partial clinical hold Intend to pursue accelerated approval pathway with potential BLA submission targeted for 2H 2025 Recently selected by FDA to participate in its START pilot program



Ongoing open-label extension study with 25 mg daily dosing for eligible patients who participated in SAD, MAD, and/or four-week dose exploration studies

Interim data expected Q4 2024



Plan to include pediatric patients 2 to 17 years of age in clinical development*

Participants eligible to participate in long term studies



Planned global double-blind placebo-controlled registration/confirmatory study**

BLA submission targeted for 2H 2025



^{*}Company is discussing with FDA as to what additional clinical trial data in adults would inform inclusion of pediatric patients ages 2 to 17 in our studies.

**Company initiated discussions with FDA on the potential use of FXN levels to support accelerated approval. Also, the Company is planning discussions with regulators and investigators outside the U.S. to expand clinical program to international geographies.

Larimar plans to dose escalate to 50 mg following further characterization of FXN pharmacodynamics at the 25 mg dose.

Nomlabofusp is a Competitively Differentiated Treatment Approach*

\$7.3B Acquisition supports the robust market potential for FA treatments



Nomlabofusp is a potential first-and-only protein replacement therapy designed to address the underlying cause of FA

Approach	Product	Company	Mechanism of Action	Clinical Status
Protein replacement	Nomlabofusp (CTI-1601)	Larimar	Recombinant frataxin protein	Phase II
Mitochondrial Oxidative Stress Modifier	Omaveloxolone (SKYCLARYS™)	Reata Pharma/Biogen	Nrf2 Activator	Approved (US and EU)
	Vatiquinone	PTC Therapeutics	15-Lipoxygenase Inhibitor	Phase III
Gene Expression Regulator	- IDI-216P2 (new formulation)		GeneTAC	Pre-clinical
Gene Therapy	LX2006	Lexeo Therapeutics	Frataxin Gene Replacement	Phase I/II



Positive Topline 50 mg & 25 mg Ph 2 Data and Dosed First Patient in OLE

Consistent
Ph 1 and Ph 2
Findings

Nomlabofusp is generally well tolerated at doses tested up to 4 weeks

Dose-dependent increases in FXN levels from baseline in evaluated tissues (skin and buccal cells)

Baseline FXN levels in skin cells in the 50 mg cohort were < 17% of the average of healthy volunteers. After daily dosing for 14 days, FXN levels increased to 33% to 59%

Regulatory Updates

Initiated discussions with FDA regarding use of FXN as a surrogate endpoint to support accelerated approval

In May 2024, the FDA removed the partial clinical hold

Recently selected by FDA to participate in its START pilot program

Intend to pursue accelerated approval with potential BLA submission for 2H 2025

Beginning preparations to expand nomlabofusp clinical program to ex-U.S. geographies

2024/2025 Milestones Q1 2024: Dosed first patient in OLE study

Q4 2024: Interim data from OLE study

2H 2024: Final Phase 2 data planned to be presented at a conference

2H 2025: BLA submission



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Larimar Therapeutics

May 20, 2024 Corporate Deck

THANK YOU



Scientific Advisory Board



Finbar and Marianne Kenny Professor in Clinical and Research Neurology at Weill Cornell Medicine.

Professor of Neuroscience at Weill Cornell Medicine.



Co-founder of Chondrial Therapeutics, which became Larimar Therapeutics, Inc.

Professor of Pediatrics at Indiana University School of Medicine



Executive Director of the Mitochondrial Medicine Frontier Program at The Children's Hospital of Philadelphia (CHOP)

Professor in the Division of Human Genetics, Department of Pediatrics at University of Pennsylvania Perelman School of Medicine



Medical Director and Division Chief of the University of California San Francisco (UCSF) Movement Disorders and Neuromodulation Center.

Carlin and Ellen Wiegner Endowed Professor of Neurology



Strong Relationship with FARA

Company has strong relationship with Friedreich's Ataxia Research Alliance (FARA)

 National, non-profit organization dedicated to the pursuit of scientific research leading to treatments and a cure for FA

FARA provides industry with several key items

- Assistance with patient recruitment and education
- Access to Global Patient Registry with demographic and clinical information on more than 1,000 FA patients
- Sponsored a Patient-Focused Drug Development Meeting in 2017 resulting in a publication titled "The Voice of the Patient"



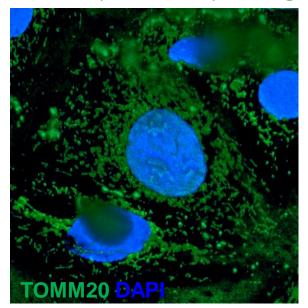


Nomlabofusp Transduction of Cells In Vitro Leads to hFXN Located in Mitochondria

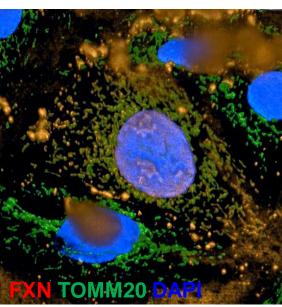
FXN staining

FXN DAPI

TOMM20 (mitochondria) staining



FXN co-localizes with TOMM20



- Rat cardiomyocytes (H9C2) were transduced with nomlabofusp
- Cells were fixed and analyzed by immunofluorescence microscopy to detect the presence of human frataxin (hFXN) and TOMM20 (a mitochondrial outer membrane protein)
- Nuclei were stained with DAPI



Nomlabofusp Extends Survival in FXN-deficient KO Mice

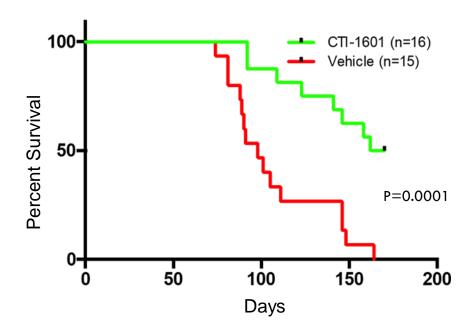
Initial proof-of-concept for FXN replacement therapy in cardiac mouse model of FA

Median survival of MCK-Cre FXN-KO mice

- 166 days (nomlabofusp) vs. 98 days (Vehicle)
- Nomlabofusp administered 10 mg/kg SC every other day

Survival beyond vehicle mean (107.5 days)

- 87.5% (nomlabofusp) vs. 33% (Vehicle)
- Demonstrates that nomlabofusp is capable of delivering sufficient amounts of FXN to mitochondria



Nomlabofusp (CTI-1601) rescues a severe disease phenotype in a well-characterized cardiac mouse model of FA



Nomlabofusp Prevents Development of Ataxic Gait in Neurologic KO Mouse Model

In-Vivo Efficacy Data in Pvalb-Cre FXN-KO Mouse Model

Single dose level: 10 mg/kg nomlabofusp or vehicle given intraperitoneally three times per week

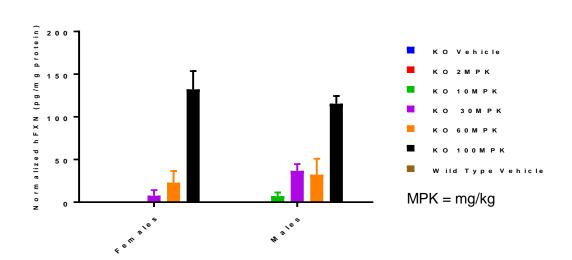
- hFXN replacement with nomlabofusp prevents development of ataxic gait
- Nomlabofusp-treated mice survive longer than untreated mice
- Human frataxin **present in brain, dorsal root ganglia and spinal cord** demonstrating central nervous system penetration



Nomlabofusp Delivers hFXN to Mitochondria and Restores SDH Activity in KO Mice

Study Design – Cardiac and skeletal muscle FXN knockout mice (MCK-CRE) were treated at varying SQ doses of nomlabofusp every other day for two weeks at Jackson Laboratories (Bar Harbor, ME). After dosing, animals were sacrificed, and heart and skeletal muscle were evaluated for hFXN concentration in mitochondrial extracts and SDH activity was assessed.

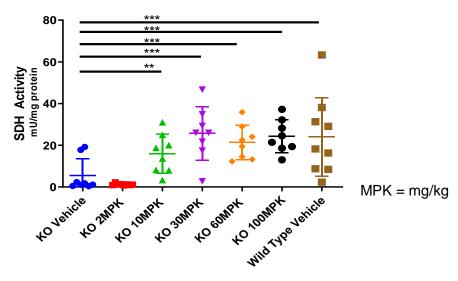
Mitochondrial FXN (Heart)



Mitochondria hFXN concentration increases dose-dependently Given subcutaneously, nomlabofusp functionally replaces hFXN in mitochondria of KO mice

Larimar Therapeutics

SDH Activity (Muscle)

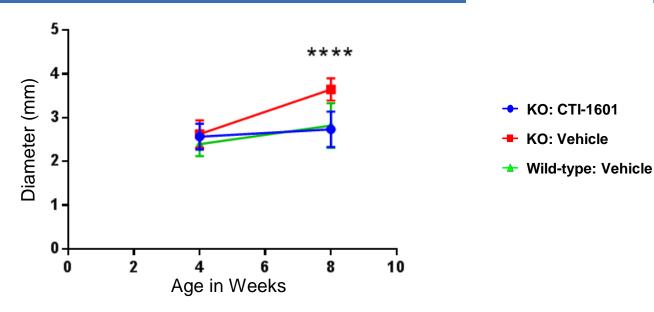


Succinate dehydrogenase (SDH) activity, which is indicative of mitochondrial function, increases in a dose-dependent manner after administration of nomlabofusp; activity plateaus at 30 mg/kg and is equivalent to activity in wild type

Nomlabofusp Prevents Left Ventricle Dilation in KO Mice

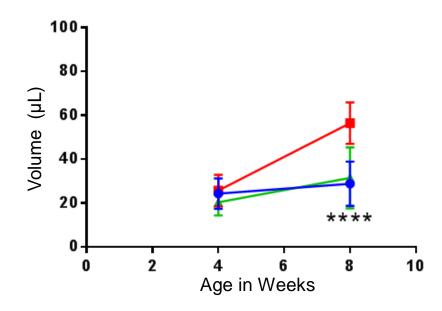
Study Design – Cardiac and skeletal muscle FXN knockout mice (MCK-CRE) were treated at 10 mg/kg every other day at Jackson Laboratories (Bar Harbor, ME). Echocardiograms were performed pre-dose and post dose.

Left Ventricle Internal Diameter (Systole)



Left ventricular (LV) volume increases in systole in untreated mice by 8 weeks (after 4 weeks of dosing with vehicle), but remains similar to wildtype when treated with nomlabofusp (10 mg/kg every other day)

Left Ventricle Volume (Systole)

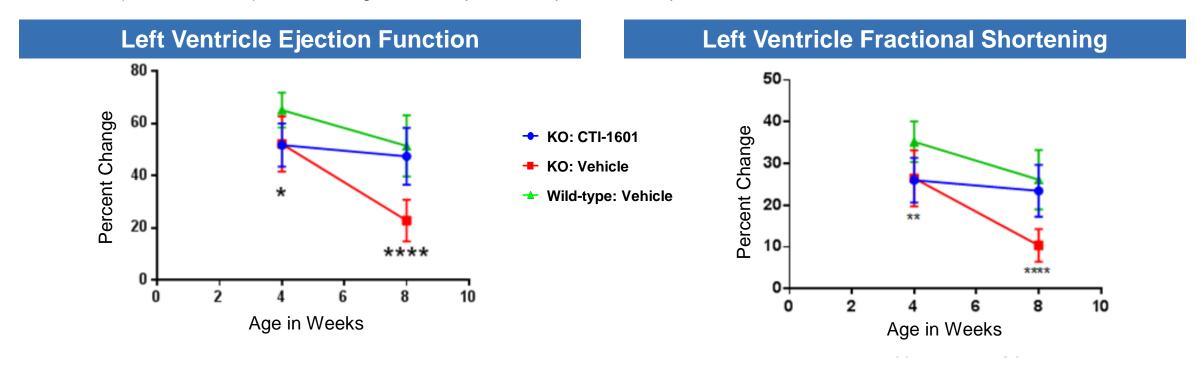


Nomlabofusp-treated mice have similar LV volume as wild type; echocardiogram shows significant differences between vehicle and nomlabofusp treated (10 mg/kg every other day) KO mice



Nomlabofusp Preserves Left Ventricle Function in KO Mice

Study Design – Cardiac and skeletal muscle FXN knockout mice (MCK-CRE) were treated at 10 mg/kg every other day at Jackson Laboratories (Bar Harbor, ME). Echocardiograms were performed pre-dose and post dose.



Left ventricular (LV) function drops significantly in vehicle treated mice by Week 8

Nomlabofusp-treated (10 mg/kg every other day) mice have similar LV function as wildtype; echocardiogram shows significant differences between vehicle and nomlabofusp treated KO mice



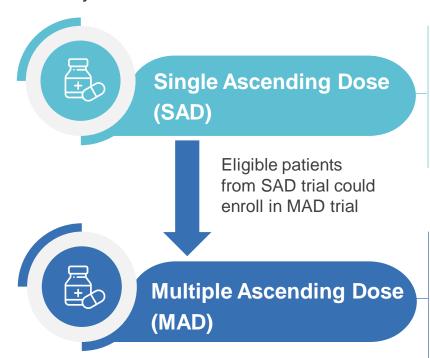


CTI-1601: Phase 1 Clinical Program in Patients with FA

Program consisted of double-blind, placebo controlled single- and multiple-ascending dose trials

Phase 1 Development Plan

- Two double-blind, placebo-controlled dosing trials in patients with FA
- Patient dosing began December 2019
- Safety Review Committee assessed all blinded data between each cohort to ensure patient safety



Number of subjects: 28

Dose levels: 25 mg, 50 mg, 75 mg and 100 mg (subcutaneous administration)

Treatment Duration: 1 day

1º Endpoint: Safety and tolerability

2º Endpoints: PK; PD; FXN levels; multiple exploratory

Status: Complete

Number of Subjects: 27

Dose Range: 25 mg, 50 mg, 100 mg (subcutaneous administration)

Treatment Regimen: Multiple increasing doses administered subcutaneously over 13 days

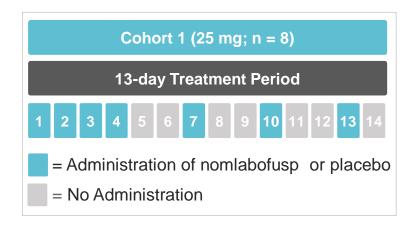
1º Endpoint: Safety and tolerability

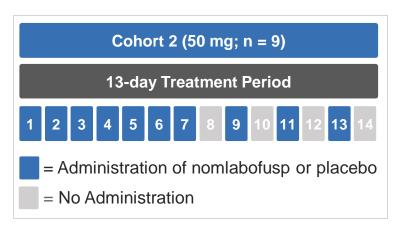
2º Endpoints: PK; PD; FXN levels (buccal cells, platelets, optional skin biopsies); multiple exploratory

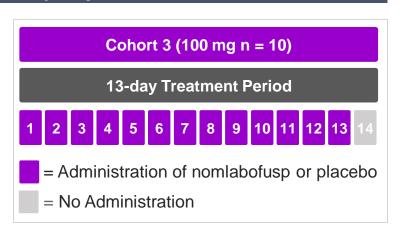
Status: Complete

Completed Phase 1 Multiple Ascending Dose Study

Treatment Schedules for Each Cohort- nomlabofusp (CTI-1601) or placebo







FXN Level Sampling Days Presented for Each Cohort

Cohort 1 Sampling Days					
Buccal Cells Baseline, Day 4, Day 13					
Skin	Baseline, Day 13				
Platelets	Baseline, Day 4, Day 13				

Cohort 2 Sampling Days					
Buccal Cells Baseline, Day 7, Day 13					
Skin	Baseline, Day 13				
Platelets	Baseline, Day 7, Day 13				

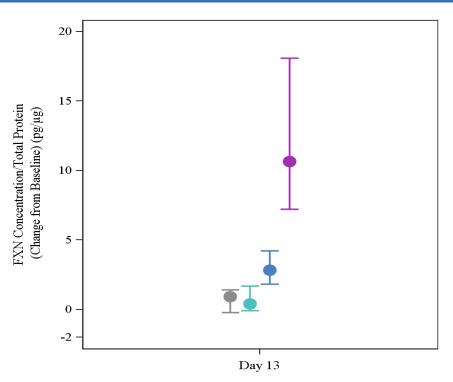
Cohort 3 Sampling Days					
Buccal Cells Baseline, Day 7, Day 13					
Skin Baseline, Day 13					
Platelets	Baseline, Day 7, Day 13				



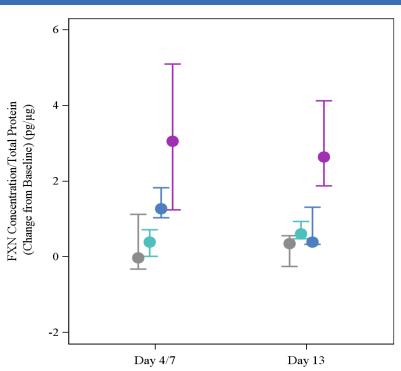
Dose Dependent Increases in FXN Levels Observed in Skin and Buccal Cells in Phase 1

FXN* Change from Baseline By Dose Group (Skin Cells)

FXN* Change from Baseline By Dose Group (Buccal Cells)







50 mg: Dosed daily for 7 days, every other day thereafter100 mg: Dosed daily for 13 days

Placebo: Participants randomized to placebo in each cohort 25 mg: Dosed daily for 4 days, every third day thereafter



*FXN levels measured via detection of peptide derived from mature FXN; FXN concentrations are normalized to total cellular protein content in each sample; Data represent median and 25th and 75th percentiles; FXN levels from Day 4, & Day 13 measurements are shown for data derived from the 25 mg cohort; FXN levels from Day 7 & Day 13 measurements are shown for data derived from the 50 & 100 mg cohorts;

MAD Trial Patient Demographics

Parameter	Statistic	All placebo (n=7)	25 mg CTI-1601 (n=6)	50 mg CTI-1601 (n=7)	100 mg CTI-1601 (n=7)	All CTI-1601 (n=20)	Overall (n=27)
Sex							
Male	n (%)	5 (71.4)	3 (50.0)	4 (57.1)	3 (42.9)	10 (50.0)	15 (55.6)
Female	n (%)	2 (28.6)	3 (50.0)	3 (42.9)	4 (57.1)	10 (50.0)	12 (44.4)
Age (years)							
	Mean	25.7	39.7	34.7	28.0	33.9	31.7
	SD	6.37	16.59	9.03	8.96	12.13	11.40
	Median	23	37	36	24	34	28
	Min, Max	20,36	21,65	19,47	20,44	19,65	19,65
Race							
White	n (%)	6 (85.7)	6 (100.0)	6 (85.7)	6 (85.7)	18 (90.0)	24 (88.9)
Asian	n (%)	0	0	1 (14.3)	1 (14.3)	2 (10.0)	2 (7.4)
American Indian	n (%)	1 (14.3)	0	0	0	0	1 (3.7)
Ethnicity							
Hispanic/Latino	n (%)	2 (28.6)	0	0	0	0	2 (7.4)
Not Hispanic/Latino	n (%)	5 (71.4)	6 (100.0)	7 (100.0)	7 (100.0)	20 (100.0)	25 (92.6)



MAD Trial Patient Disease Characteristics

Parameter	Statistic	All placebo (n=7)	25 mg CTI-1601 (n=6)	50 mg CTI-1601 (n=7)	100 mg CTI-1601 (n=7)	All CTI-1601 (n=20)	Overall (n=27)
Age at Symptom Onset							
	Mean	14.1	24.0	19.3	11.9	18.1	17.1
	SD	5.34	14.48	6.21	6.72	10.37	9.39
	Median	15.0	18.0	19.0	10.0	18.0	16.0
	Min, Max	8,23	12,44	8,28	5,22	5,44	5,44
Age at Diagnosis							
	Mean	18.3	31.5	26.4	15.9	24.3	22.7
	SD	7.87	19.88	4.28	8.21	13.24	12.23
	Median	20.0	25.5	28.0	13.0	27.0	21.0
	Min, Max	9,32	14,64	17,30	5,27	5,64	5,64
Assistive Device							
Walker	n (%)	0	2 (33.3)	3 (42.9)	0	5 (25.0)	5 (18.5)
Wheelchair	n (%)	4 (57.1)	3 (50.0)	1 (14.3)	6 (85.7)	10 (50.0)	14 (51.9)
Other	n (%)	1 (14.3)	0	1(14.3)	0	1 (5.0)	2 (7.4)
None	n (%)	2 (28.6)	1 (16.7)	2 (28.6)	1 (14.3)	4 (20.0)	6 (22.2)



PK analyses support evaluating once-daily and every-other-day dosing regimens for CTI-1601

Summary of MAD Trial PK Analyses

- CTI-1601 was quickly absorbed after subcutaneous administration
- Ose-proportional increases in exposure observed with increasing doses of CTI-1601
- CTI-1601 appeared to be at or close to steady state exposure after 13 days of dosing
 100 mg once daily



Demographics – Phase 2 Trial

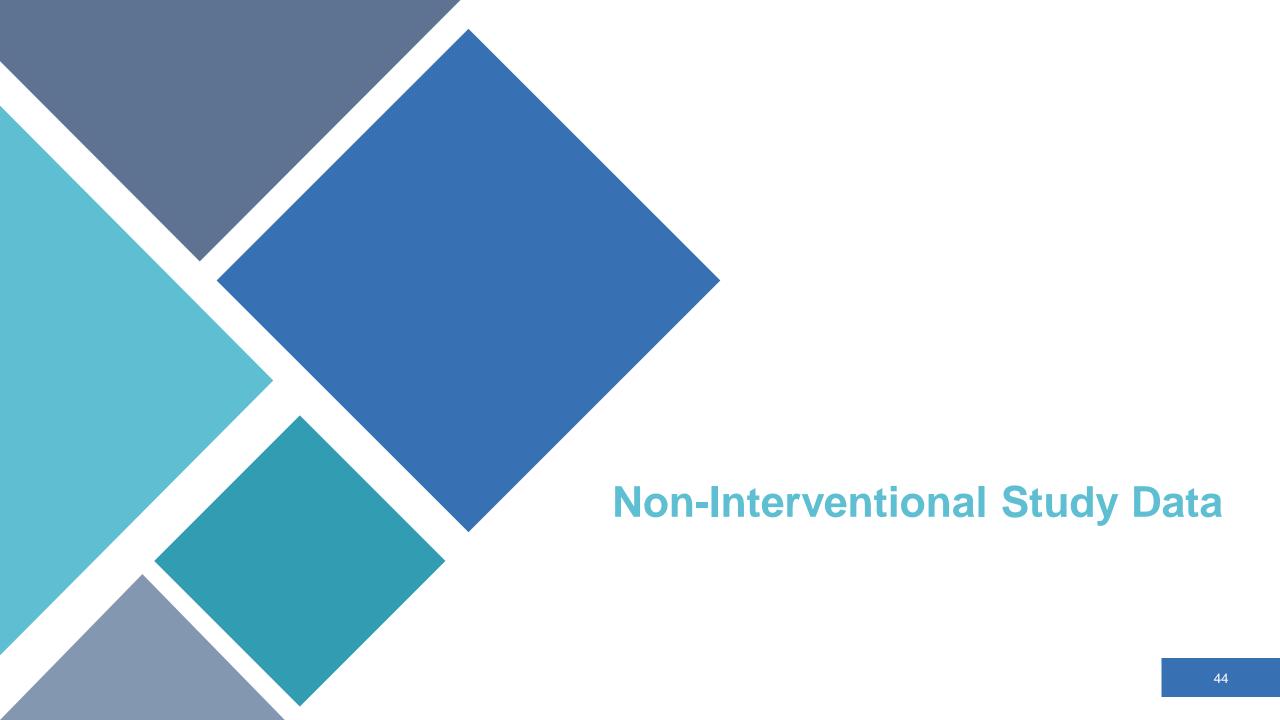
	25 mg Cohort			50 mg Cohort			
	Placebo N = 4	Nomlabofusp $N = 9$	Overall N = 13	Placebo N=5	Nomlabofusp $N = 10$	Overall <i>N</i> = 15	
Age at Screening (Years)							
Mean (SD)	34.0 (9.20)	37.8 (14.93)	36.6 (13.16)	28.6 (4.67)	28.1 (11.00)	28.3 (9.17)	
Median	33	31	31	27	24	26	
Q1, Q3	27, 42	27, 42	27, 42	26, 30	21, 32	21, 32	
Min, Max	25, 45	25, 69	25, 69	24, 36	19, 54	19, 54	
Sex n (%)							
Male	2 (50.0)	5 (55.6)	7 (53.8)	1 (20.0)	4 (40.0)	5 (33.3)	
Female	2 (50.0)	4 (44.4)	6 (46.2)	4 (80.0)	6 (60.0)	10 (66.7)	
Previously Treated with Nomlabofusp n (%)							
Yes	1 (25.0)	3 (33.3)	4 (30.8)	0	1 (10.0)	1 (6.7)	
No	3 (75.0)	6 (66.7)	9 (69.2)	5 (100.0)	9 (90.0)	14 (93.3)	



Disease Characteristics – Phase 2 Study

	25 mg Cohort			50 mg Cohort		
	Placebo N=4	Nomlabofusp $N = 9$	Overall $N = 13$	Placebo N=5	Nomlabofusp $N = 10$	Overall <i>N</i> = 15
Age at Symptom Onset (Years)						
Mean (SD)	14.5 (4.93)	13.0 (10.47)	13.5 (8.77)	15.2 (7.26)	13.7 (8.37)	14.2 (7.78)
Median	14.5	10	11	14	12.5	14
Q1, Q3	11, 19	8, 13	9, 15	11, 16	7, 18	7, 18
Min, Max	9, 20	5, 38	5, 38	8, 27	5, 30	5, 30
Age at Diagnosis (Years)						
Mean (SD)	17.5 (5.57)	18.6 (11.20)	18.2 (9.58)	18.6 (6.80)	16.6 (8.03)	17.3 (7.46)
Median	16.5	16	16	19	13.5	14
Q1, Q3	14, 22	14, 20	14, 20	13, 20	10, 21	12, 21
Min, Max	12, 25	5, 42	5, 42	12, 29	9, 30	9, 30
Time Since Diagnosis (Years)						
Mean (SD)	16.1 (5.97)	18.5 (11.52)	17.8 (9.94)	9.5 (3.72)	11.9 (7.05)	11.1 (6.10)
Median	13.42	14.32	13.5	11	11.26	11
Q1, Q3	12.9, 19.3	12.8, 21.6	12.8, 21.6	5.8, 11.3	7.4, 15.3	5.8, 15.2
Min, Max	12.5, 25.0	5.4, 45.0	5.4, 45.0	5.6, 14.0	2.3, 25.1	2.3, 25.1

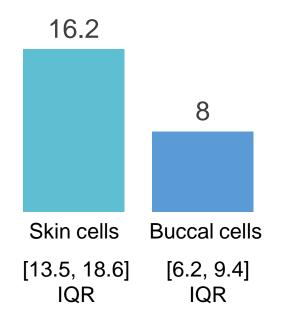




CLIN-1601-002: Top-line Non-interventional Study Results

Non-interventional study measured FXN in homozygous healthy volunteers

Median Frataxin Concentration (pg/μg) in Homozygous Healthy Volunteers (n = 60)



Most patients with FA only produce ~20-40%¹ of normal frataxin levels depending on the tissue, sampling technique, and assay considered

Lower FXN levels seen with typical onset² (5 to 15 years of age)

Higher FXN levels seen with late onset² (after 25 years of age)

Heterozygous carriers who show no signs of disease have buccal cell FXN levels of ~50% of unaffected healthy persons¹

