A microscopic view of several mitochondria, showing their characteristic bean-like shape and internal cristae. The image is rendered in shades of blue and purple, giving it a scientific and futuristic appearance. The mitochondria are scattered across the frame, with some in sharp focus and others blurred in the background.

Targeting bioenergetic dysfunction across human disease



Leading
Mitochondrial
Medicine

August 2021

Our forward-looking statements and disclaimers

This presentation and various remarks we make during this presentation contain forward-looking statements within the meaning of The Private Securities Litigation Reform Act of 1995. Such forward-looking statements include those regarding Stealth BioTherapeutics' plans, strategies and expectations for its preclinical and clinical advancement of its drug development programs, including its ongoing clinical trials of elamipretide and planned clinical trial of SBT-272; its plans for the potential submission of an NDA for Barth syndrome; its expectations regarding regulatory interactions, including its belief that the existing data may provide sufficient evidence to support NDA review; the potential benefits of Stealth BioTherapeutics' product candidates; its key milestones for 2021 and 2022; and its plans regarding future data presentations. Statements that are not historical facts, including statements about Stealth BioTherapeutics' beliefs, plans and expectations, are forward-looking statements. The words "anticipate," "expect," "hope," "plan," "potential," "possible," "will," "believe," "estimate," "intend," "may," "predict," "project," "would" and similar expressions are intended to identify forward-looking statements, although not all forward-looking statements contain these identifying words. Stealth BioTherapeutics may not actually achieve the plans, intentions or expectations disclosed in these forward-looking statements, and you should not place undue reliance on these forward-looking statements. Actual results or events could differ materially from the plans, intentions and expectations disclosed in the forward-looking statements as a result of known and unknown risks, uncertainties and other important factors, including: Stealth BioTherapeutics' ability to obtain additional funding and to continue as a going concern; the impact of the COVID-19 pandemic; the ability to successfully demonstrate the efficacy and safety of Stealth BioTherapeutics' product candidates and future product candidates; the preclinical and clinical results for Stealth BioTherapeutics' product candidates, which may not support further development and marketing approval; the potential advantages of Stealth BioTherapeutics' product candidates; the content and timing of decisions made by the FDA, the EMA or other regulatory authorities, investigational review boards at clinical trial sites and publication review bodies, which may affect the initiation, timing and progress of preclinical studies and clinical trials of Stealth BioTherapeutics product candidates; the possibility that the FDA will not file the planned Barth NDA following the Company's anticipated submission of it; Stealth BioTherapeutics' ability to obtain and maintain requisite regulatory approvals and to enroll patients in its planned clinical trials; unplanned cash requirements and expenditures; competitive factors; Stealth BioTherapeutics' ability to obtain, maintain and enforce patent and other intellectual property protection for any product candidates it is developing; and general economic and market conditions. These and other risks are described in greater detail under the caption "Risk Factors" included in the Stealth BioTherapeutics' most recent Annual Report on Form 20-F filed with the Securities and Exchange Commission ("SEC"), as well as in any future filings with the SEC. Forward-looking statements represent management's current expectations and are inherently uncertain. Except as required by law, Stealth BioTherapeutics does not undertake any obligation to update forward-looking statements made by us to reflect subsequent events or circumstances.

Pioneering mitochondrial medicine

Ophthalmology platform



- **Dry age-related macular degeneration** (dry AMD) P2b data H1 2022; intravitreal formulation development ongoing
- **Leber's hereditary optic neuropathy** (LHON) P3 initiation pending formulation decision

Neurology platform



- **nDNA-related primary mitochondrial disease** (nPMD) P3 initiation planned H2 2021
- **SBT-272** preclinical evidence of improved survival and neuronal health in **ALS** models; P1 trial initiation targeted H1 2022
- **SBT-550** series improved cell-survival in **Friedreich's ataxia** patient-derived fibroblasts

Cardiology platform

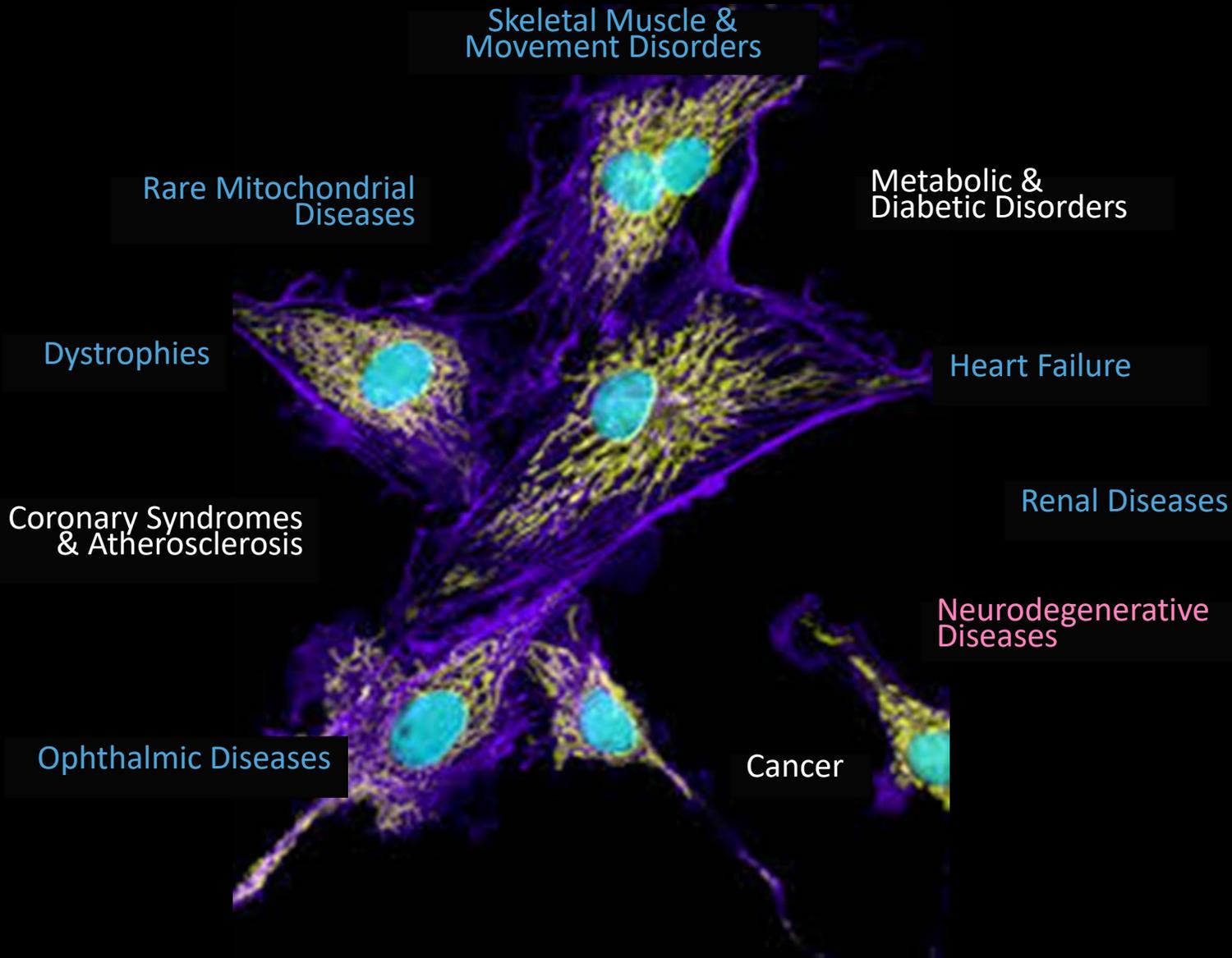


- **Barth** NDA expected to be submitted to FDA in August 2021
- **Friedreich's ataxia** P2a clinical trial commencing H2 2021 assessing visual function and cardiac endpoints
- **Duchenne cardiomyopathy** P2/3 initiation H1 2022 subject to discussions with FDA, planning efforts and financing plans

Our pipeline

	Indication	Drug	Discovery	Preclinical	Phase 1	Phase 2	Phase 3
Ophthalmology	Dry age-related macular degeneration (AMD)	Elam	→ Data expected H1 2022				
	Leber's hereditary optic neuropathy (LHON)	Elam	→ P3 initiation pending formulation decision				
Neurology	nDNA-related primary mitochondrial disease (PMD)	Elam	→ Initiate P3 study H2 2021				
	Neuro (ALS, other)	SBT-272	→ Toxicology studies ongoing; P1 initiation targeted H1 2022				
	Other neuro	SBT-550	→ Evaluating for Friedreich's ataxia, Leigh's syndrome				
Cardiology	Barth Syndrome	Elam	→				
	Duchenne cardiomyopathy	Elam	→ P2/3 initiation H1 2022, subject to planning, FDA feedback, finances				
	Friedreich's ataxia (FRDA)	Elam	→ Initiate P2a study 2021				

Mitochondrial dysfunction and human disease

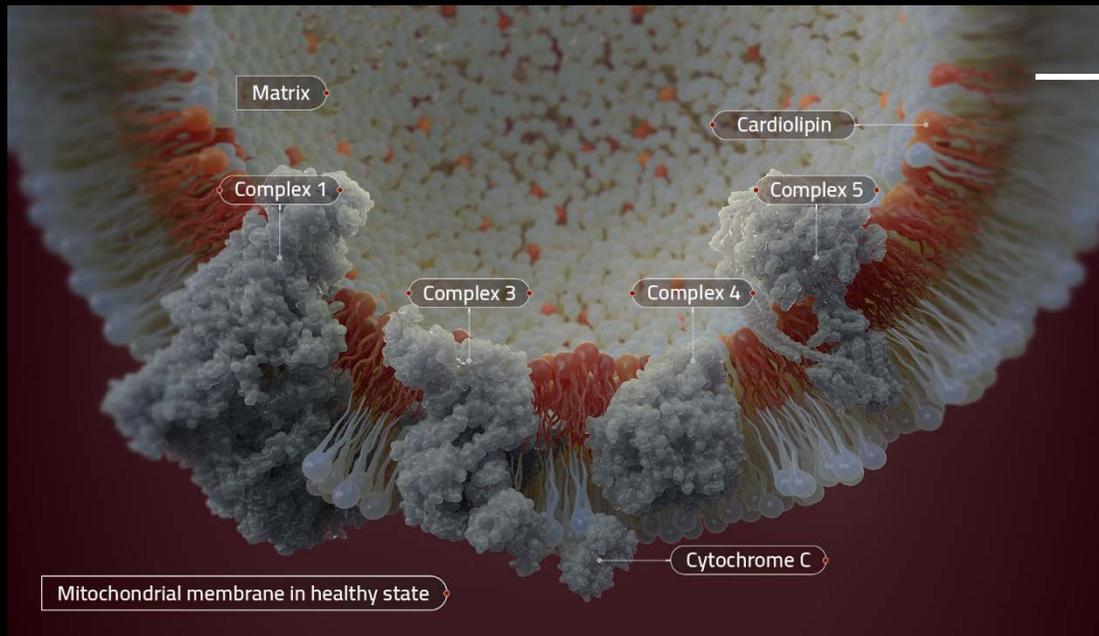


- Mitochondria produce ~90% of the energy utilized by mammalian cells through a highly dynamic mitochondrial network
- Mitochondrial oxidative stress is implicated across many rare and common diseases, typically involving organ systems with high energy demands (heart, eye, brain, skeletal muscle)
- SBT's first-in-class lead compound, elamipretide, has shown clinical benefit in **cardiac**, **ophthalmic** and **skeletal muscle diseases**, and its pipeline compounds SBT-272 and first-in-class SBT-550 series are being developed for **neurodegenerative diseases**.

Mitochondrial inner membrane is disrupted in disease

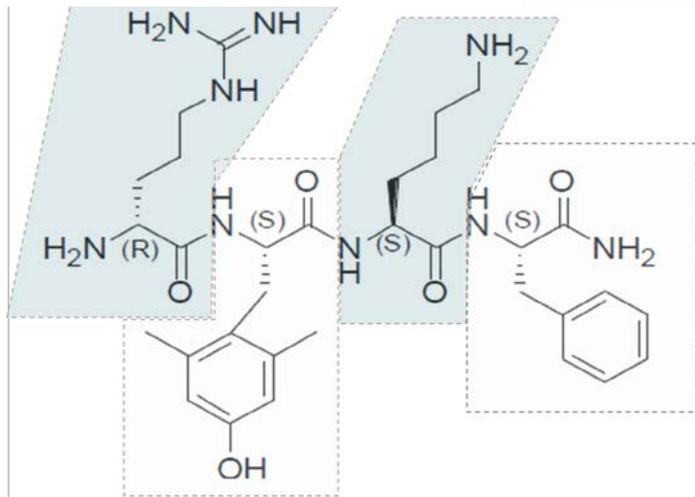
In healthy states, cardiolipin promotes inner mitochondrial membrane curvature to organize respiratory complexes

ROS-mediated damage of cardiolipin disrupts cristae curvature and organization of respiratory complexes

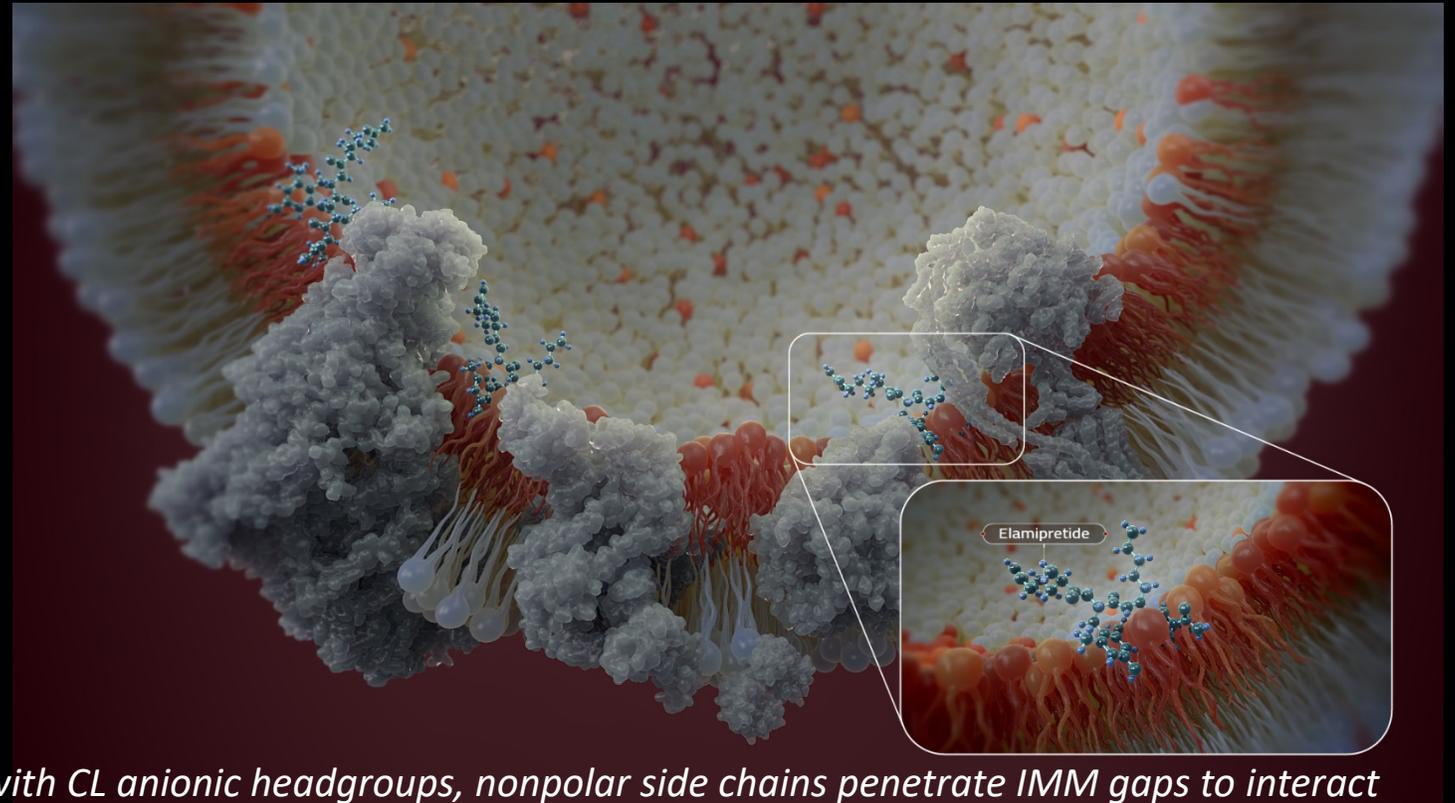


Elamipretide targets cardiolipin; improves IMM structure

Elamipretide modulates IMM dynamics which are disrupted in diseases entailing mitochondrial dysfunction



Charge motif optimizes mitochondrial targeting



Positively charged residues interact electrostatically with CL anionic headgroups, nonpolar side chains penetrate IMM gaps to interact hydrophobically with CL acyl chains, improving lipid packing, cristae morphology and IMM surface area¹

IMM = inner mitochondrial membrane; CL = cardiolipin

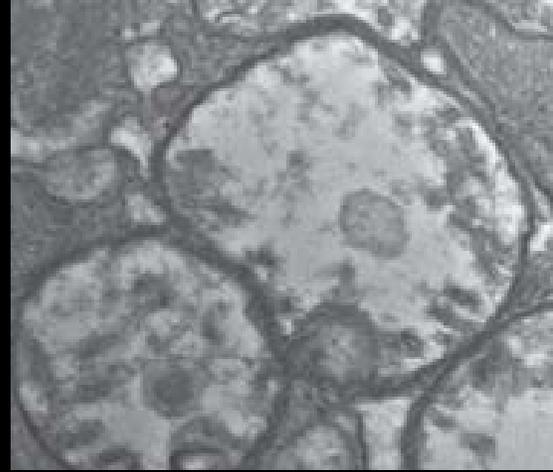
¹ Mitchell, Wayne et al. "The mitochondria-targeted peptide SS-31 binds lipid bilayers and modulates surface electrostatics as a key component of its mechanism of action." The Journal of biological chemistry vol. 295,21 (2020): 7452-7469. doi:10.1074/jbc.RA119.012094

Elamipretide normalizes morphology, networking

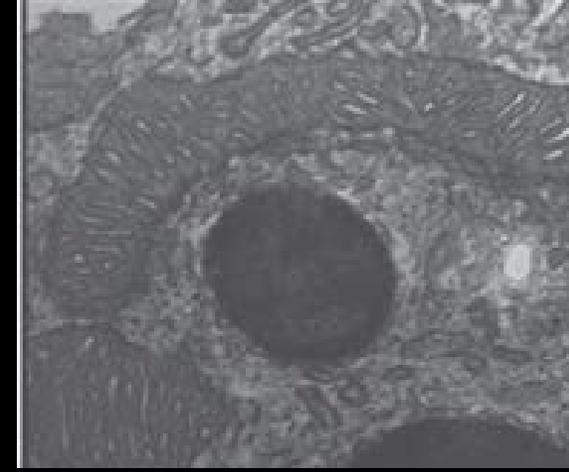
Improved morphology in mouse model of diabetic retinopathy



Normal mouse

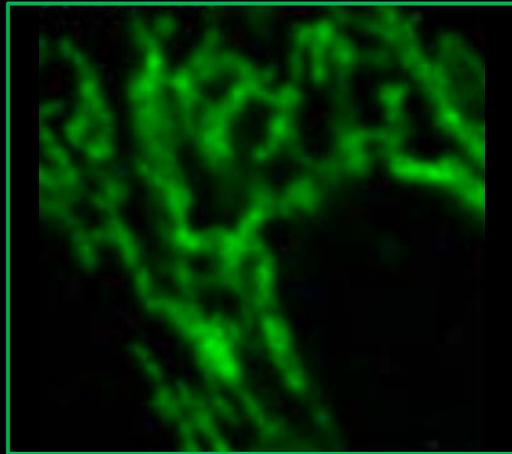


Placebo-treated diabetic mouse

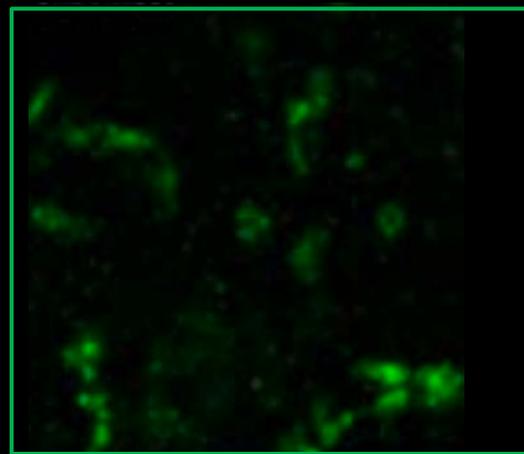


Elamipretide-treated diabetic mouse

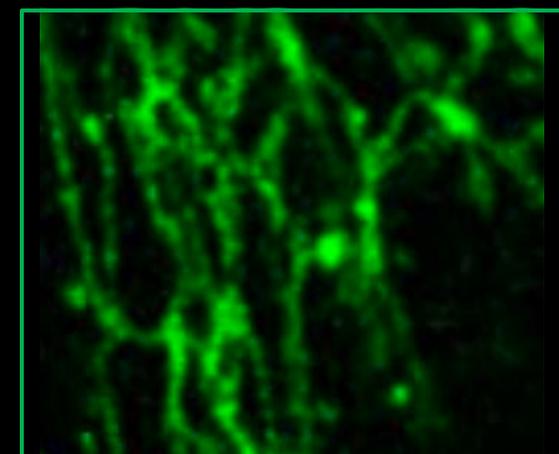
Improved networking in DCMA patient derived cells



Normal



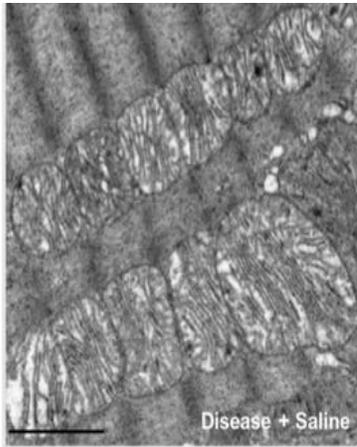
Cardiomyopathy



Cardiomyopathy + elamipretide

Time course to improvements

TAZPOWER P2/3 Clinical Trial and Open-label Extension & associated preclinical data



Improved mitochondrial function

Hours/Days

Restoration of healthy gene expression

Days

Cardiac/mitochondrial protein turnover

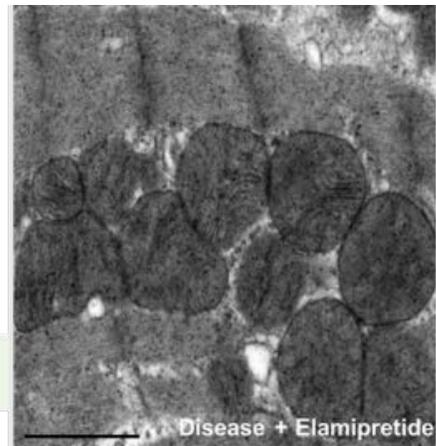
Weeks

Improved cardiac substrate metabolism

Weeks/Months

Myocardial remodeling

Months/Year



Elamipretide Improves Mitochondrial Respiration in the Failing Human Heart

Stauffer, *ESC HF*, 2017, Chatfield, *JACC Basic Translational Sc*, 2019

Elamipretide remediates respiratory chain and mitochondrial quality control abnormalities caused by cardiolipin deficiency

Anzmann et al; *J Biol Chem*. 2021

Elamipretide improves plasma medium chain acylcarnitines in Barth syndrome

Oates et al; medRxiv 2020.11.20.20235580

Elamipretide improves cardiac parameters in Barth syndrome

Thompson, et al., *Genet Med* 23, 471–478 (2021)

Ophthalmology

The visual system is one of the most energetically demanding systems in the brain.

The visual system is particularly vulnerable to functional deficits induced by deficiencies in energy metabolism.

Defects in energy metabolism often lead to visual deficits and even blindness in diseases such as age-related macular degeneration (AMD), glaucoma and diabetic retinopathy, as well as genetic diseases such as LHON and FRDA. In addition, visual deficits and defective energy metabolism are implicated in diseases of aging such as Alzheimer's, Huntington's and Parkinson's diseases.

Wong-Riley, Eye Brain, 2010.



*Dry AMD ~1 million**



*Friedreich's ataxia
1:40,000*



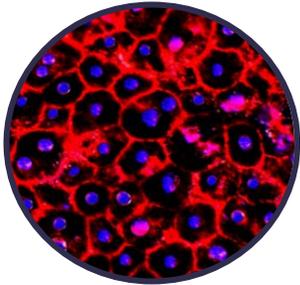
*Leber's hereditary optic neuropathy
~7,000**

Preclinical efforts in glaucoma underway

* All estimates are of US patients affected

AMD at a glance

Preclinical models



Improved mitochondrial function and vision in animal models.

Cousins, *Retina Today*, 2016,
Angiogenesis, 2017,
Kappahn, *ARVO*, 2017

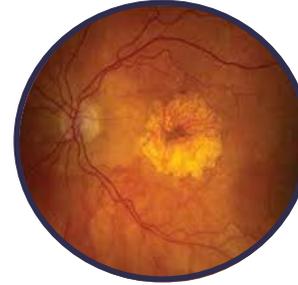
Natural history



High risk drusen + intermediate geographic atrophy (GA) patients lose up to 6 letters of visual acuity every 12 months.

Holkamp, *Angiogenesis*, 2018;
Ladd, data on file.

Clinical data



ReCLAIM P1 trial (6 mos. duration; drusen + GA) showed improved visual function + apparent slowing of GA progression.

Angiogenesis, 2019,
ARVO, 2019, *ASRS* 2019

Current & next steps



ReCLAIM-2 Phase 2b trial in patients with GA fully enrolled; data H1 2022. IVT development ongoing.

ReCLAIM Phase 1 trial

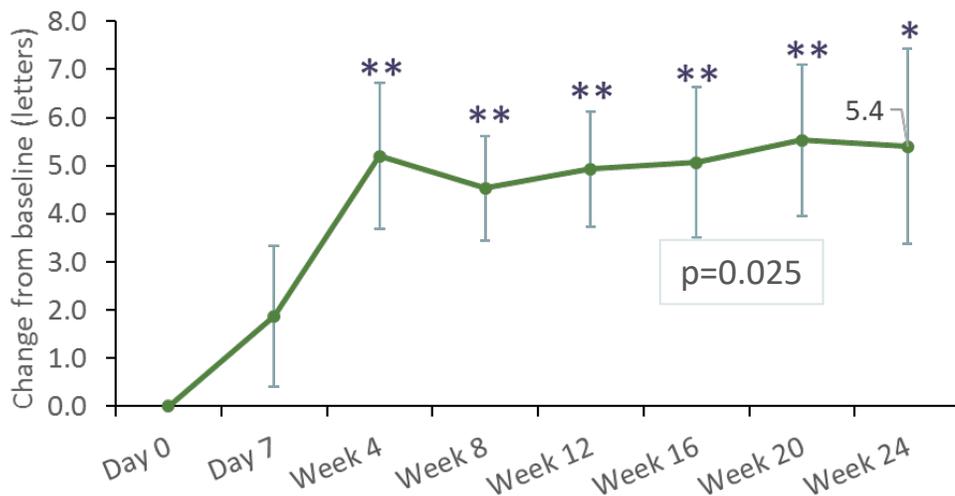


Stealth Biotherapeutics [data on file].

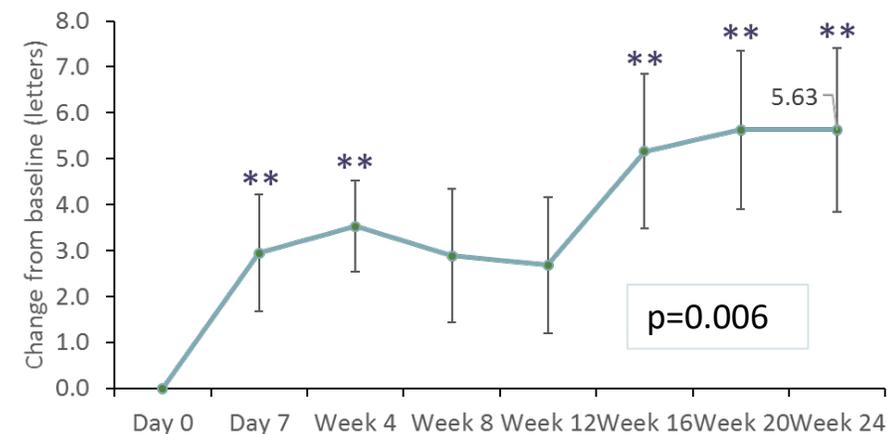
ReCLAIM: improved visual acuity in low and regular light



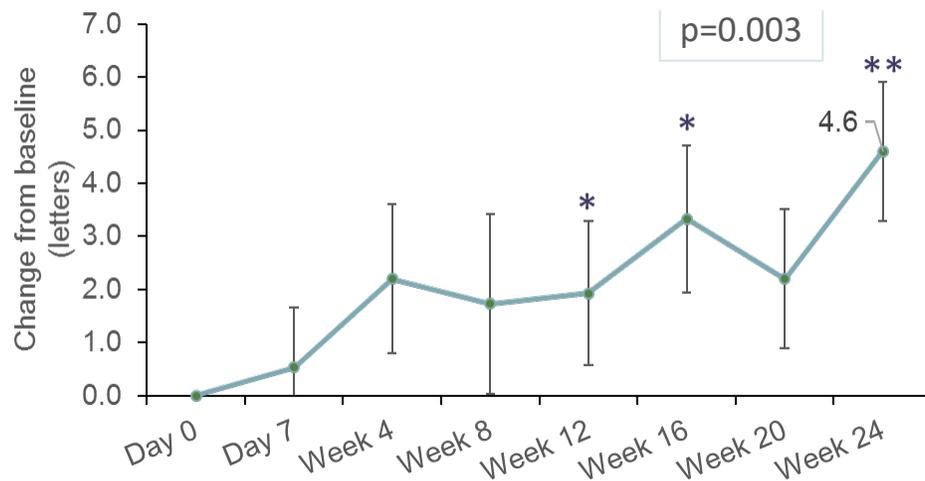
GA: Mean Change in LLVA n=15



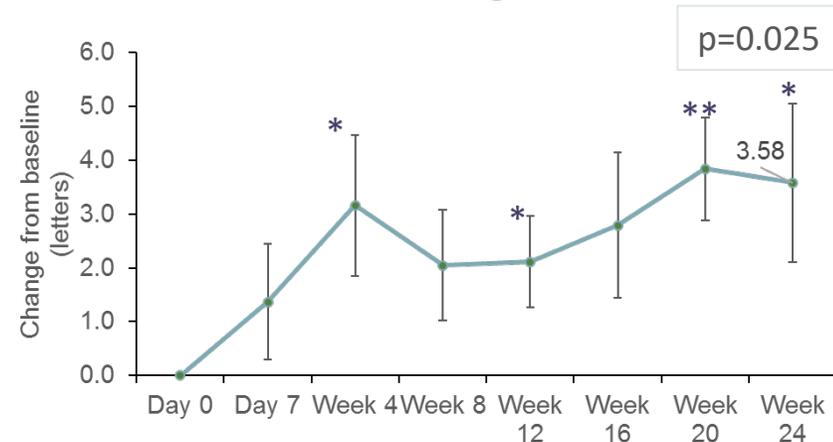
Drusen: Mean Change in LLVA n=19



GA: Mean Change in BCVA n=15

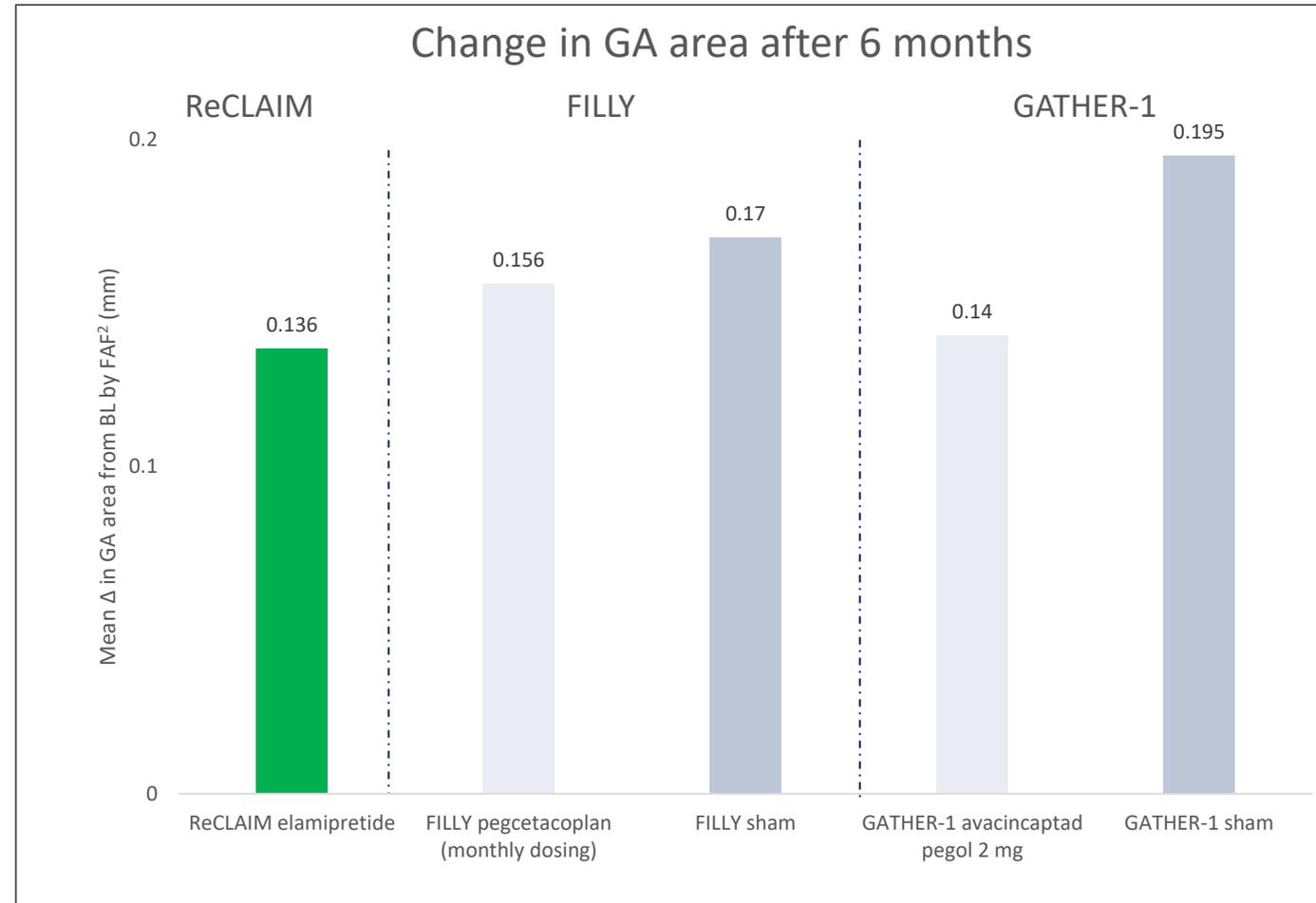
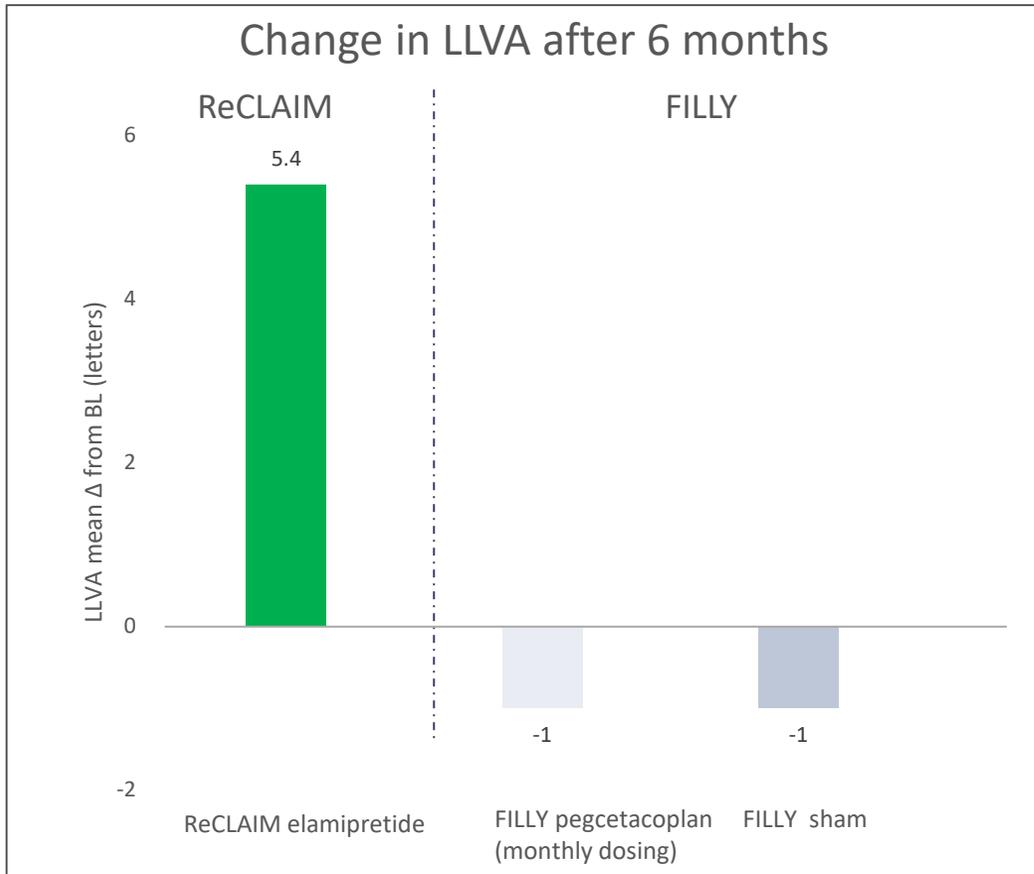


Drusen: Mean Change in BCVA n=19



Slowed GA growth relative to other agents in development

Reduced GA growth and improved vision at 6 months relative to other agents in development¹



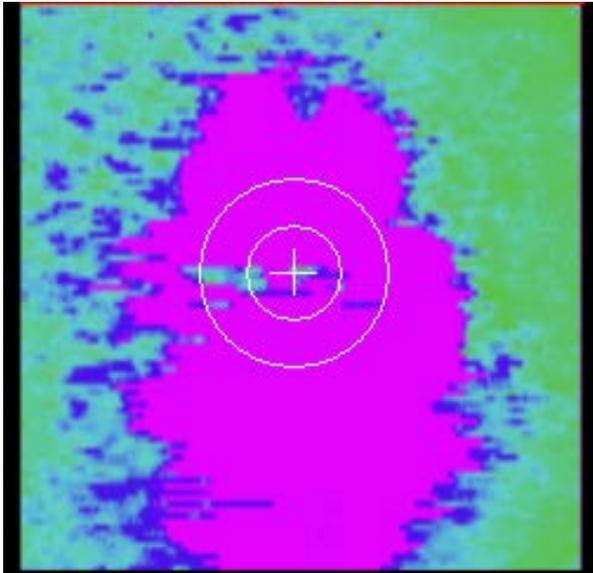
¹Liao et al., Ophthalmology 2020; Jaffe et al., Ophthalmology 2020, with 6-month LLVA extrapolated from graphic representation; Filly and Gather-1 patient populations differ from ReCLAIM; FAF²=fundus autofluorescence, square root; LLVA=low light visual acuity; Δ =change; BL= baseline

Improved vision correlated with ellipsoid zone health

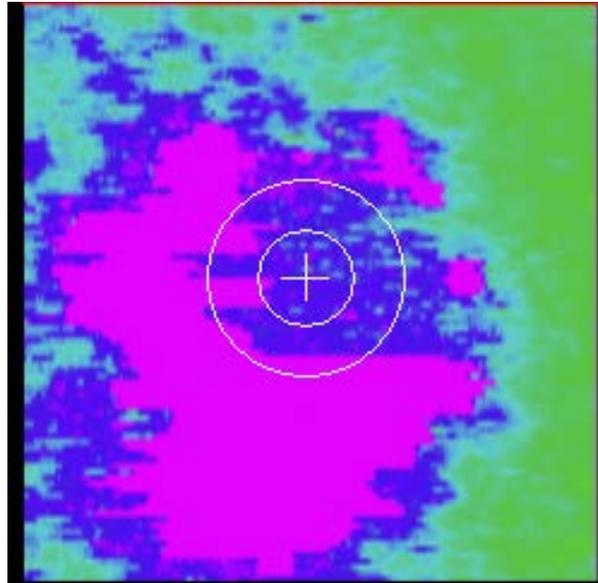
- The ellipsoid zone (EZ) is an area of the retina comprised mostly of mitochondria which supports photoreceptor function and is known to be attenuated in dry AMD
- In a post hoc analysis, ~50% of GA patients gained ≥ 5 letters in LLVA; with response correlated with baseline macular percentage of total EZ attenuation ($r = -0.72$; $P = 0.002$)

EZ-zone mapping from illustrative GA patients, w/  indicating attenuation and  indicating healthy EZ

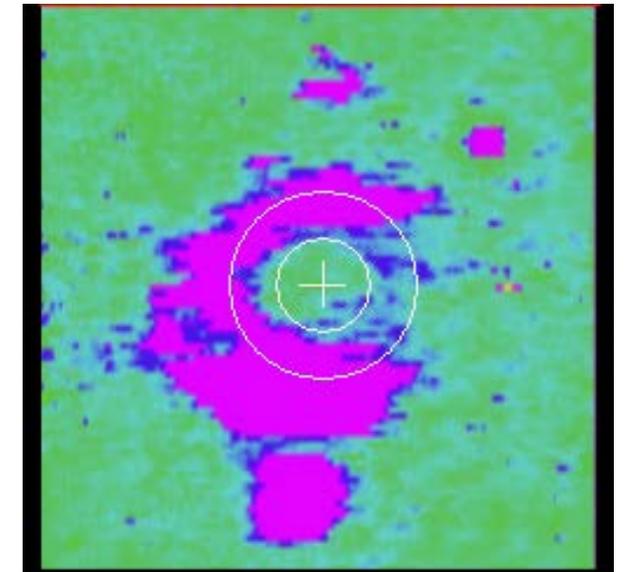
2-letter gain



4-letter gain

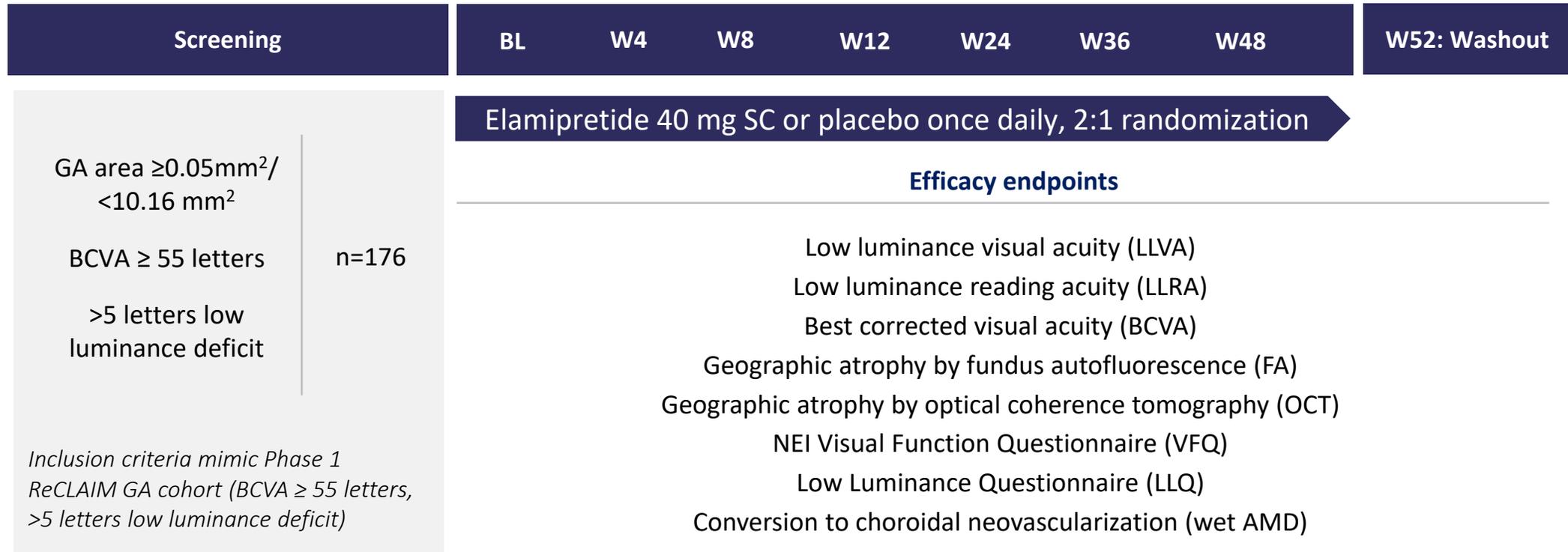


18-letter gain



ReCLAIM-2

Fully enrolled



IVT development ongoing

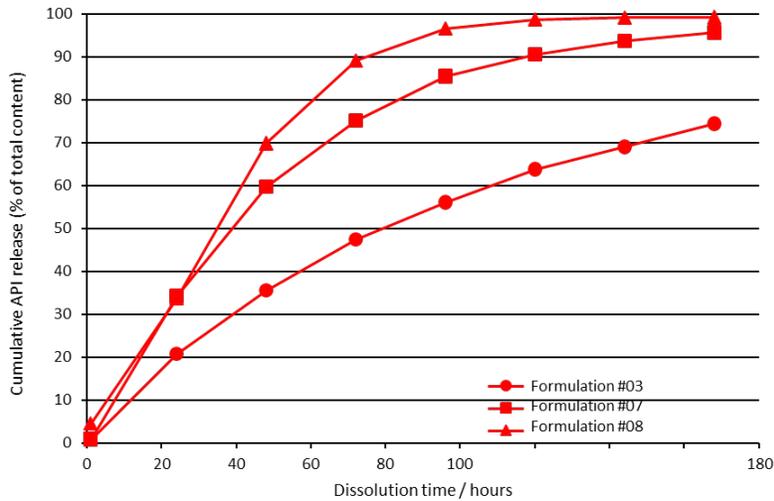
Objective is to design a matrix to release elamipretide slowly into the retina, allowing dosing every 3- to 4-months

Feasibility Stage

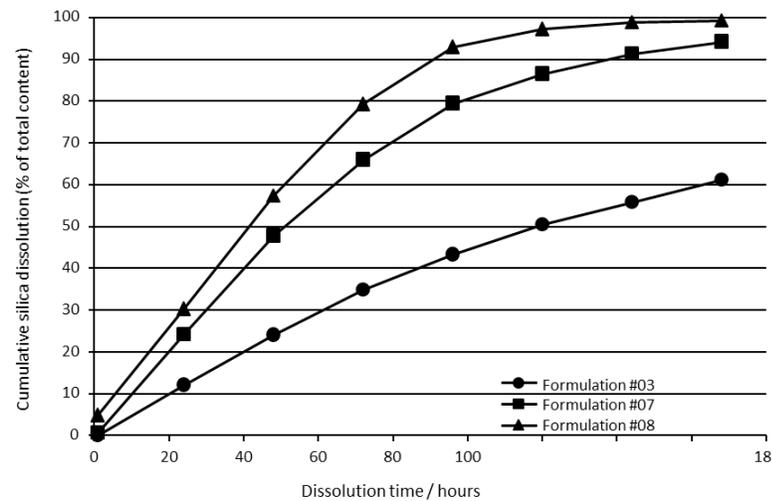
Drug release mimics matrix dissolution, anticipated 4–10-month release.

In Vitro Release Testing

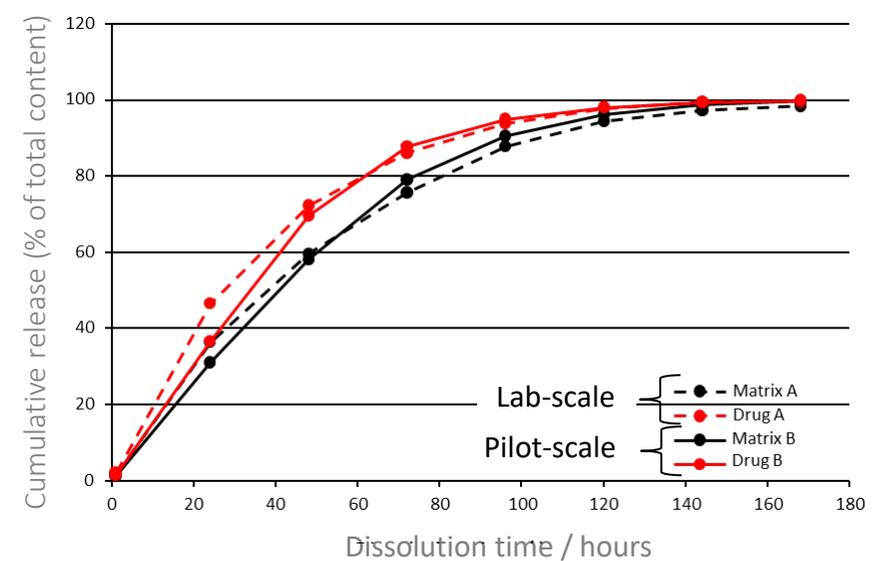
Drug release mimics matrix dissolution



Drug release



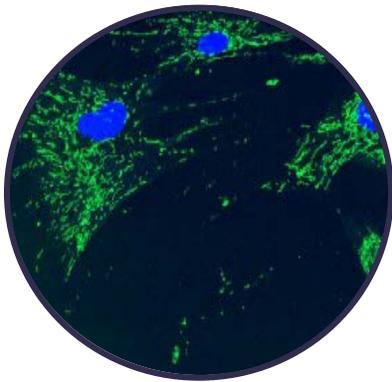
Matrix dissolution



Planning to complete *in vitro* efficacy + retinal PK and IVT drug product ready for GLP tox testing commensurate w/P2b data read-out

Friedreich's ataxia at a glance

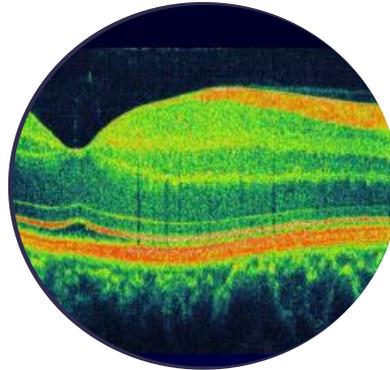
Nonclinical Data



Elamipretide improves frataxin expression and mitochondrial function in Friedreich's ataxia patient-derived lymphoblasts (GM15850)

Zhao, et al., Scientific Reports, 2017.

Natural history



Friedreich's Ataxia Collaborative Clinical Research Network has assessed visual acuity in >500 patients longitudinally over 5+ years. Cardiac natural history is also well-established.

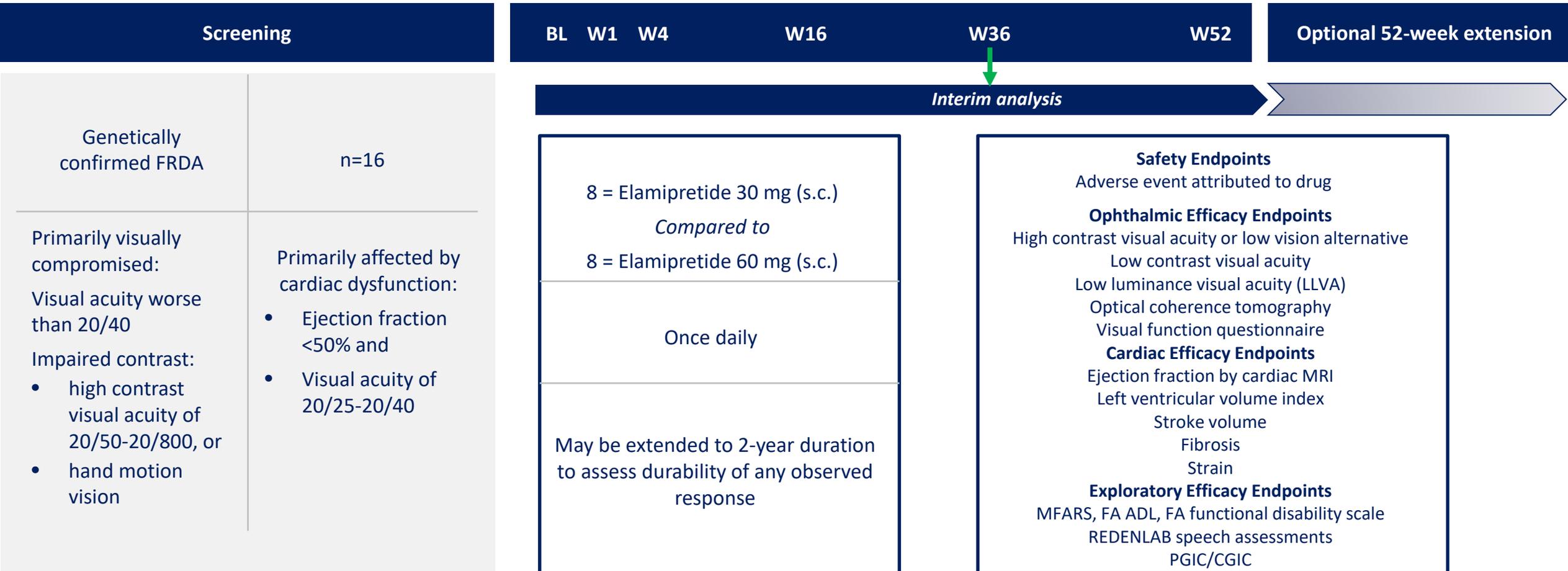
Balcer, Visual Function in FRDA; Pousset et al., JAMA Neurol. 2015

Clinical plan



Planning Phase 2a 52-week clinical study to assess safety and efficacy of 2 doses of elamipretide (30 mg SC and 60 mg SC) and inform Phase 2/3 endpoint selection. Interim data analysis planned at 36-weeks to inform extension to 104-weeks.

Phase 2a study commencing H2 2021



* Protocol subject to IRB approval

Leber's hereditary optic neuropathy at a glance

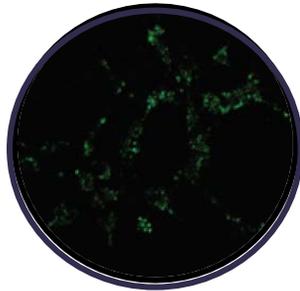
Route of administration



1.0% topical ophthalmic drops reach the retina in therapeutic concentrations + demonstrate efficacy. Higher concentrations reach retina via SC delivery.

Stealth, data on file; Alam, *Dis. Mod. Mech.* 2015

Preclinical Models



Improved mitochondrial function in murine-derived retinal ganglion cell (RGC) line. Improved RGC survival + visual outcomes in murine acute traumatic optic neuropathy model.

Chen 2017; Pelaez, Tse (ongoing)

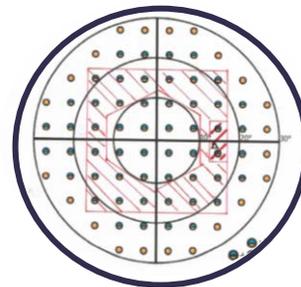
Natural history



For patients >12 mos. post vision-loss, visual field and acuity are not expected to improve over 2 yr. period.

Lam, *JAMA Ophthalmology*, 2014

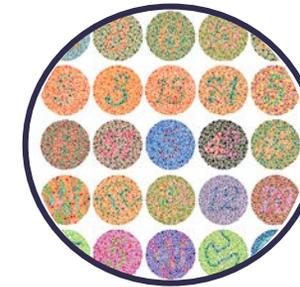
Clinical data



ReSIGHT Phase 2 did not show improvement in BCVA after 48-weeks of elamipretide 0.1% topical ophthalmic drops. Improved visual field and visual quality of life.

ARVO, 2019, EUNOS, 2019, UMDf, 2019.

Open-label data



Improvements from P2 baseline in visual acuity, visual field, color, contrast + visual quality of life observed at week 28.

ARVO, 2019, EUNOS, 2019, UMDf 2019

Current & next steps



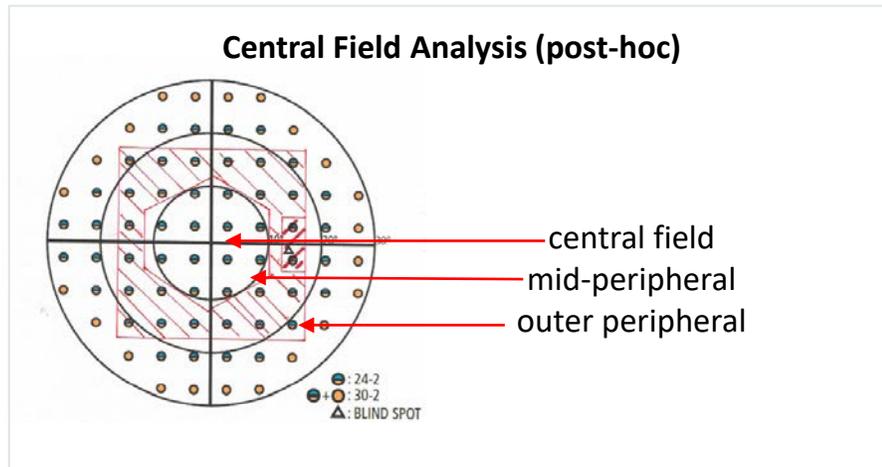
IVT formulation work ongoing to inform P3 dosage.

Leber's hereditary optic neuropathy

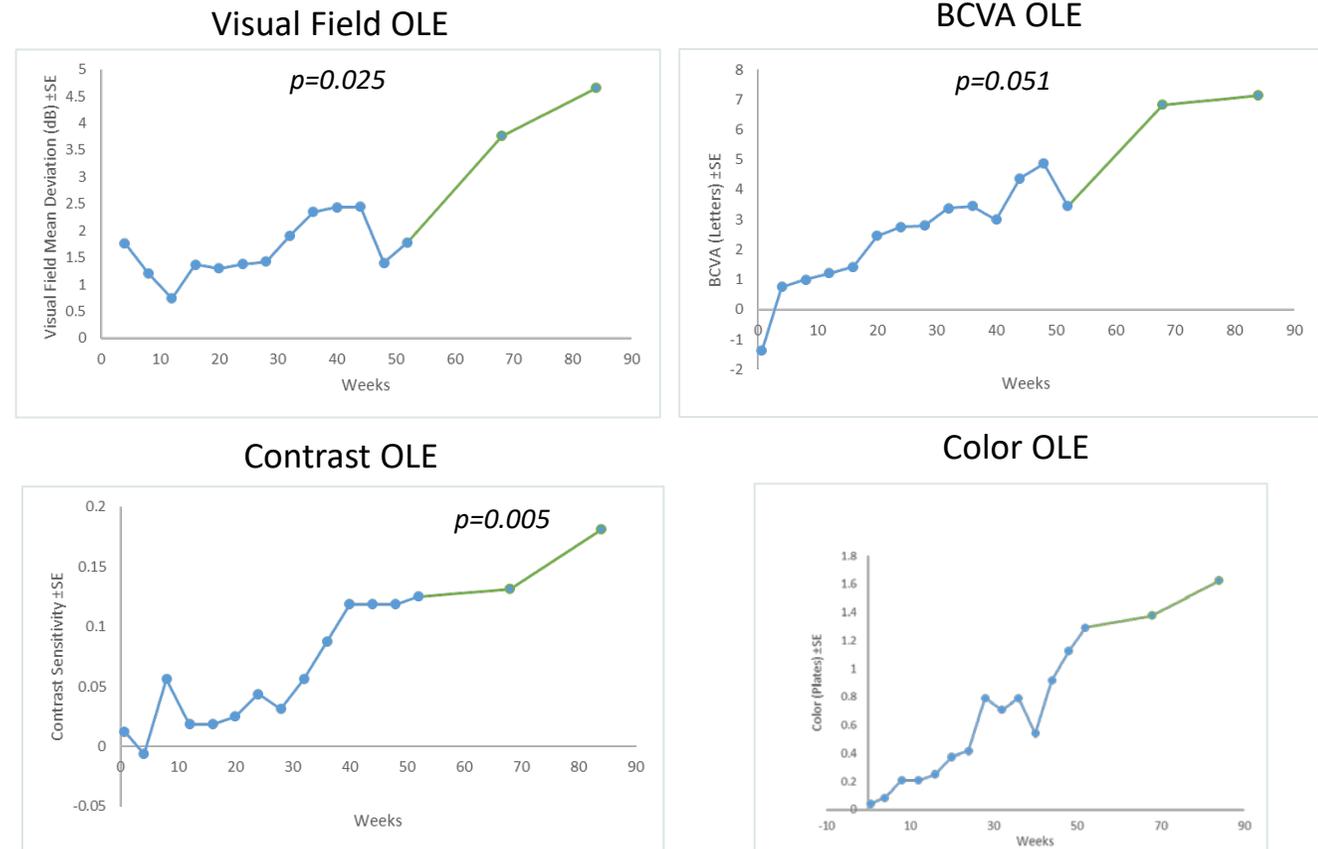
P2 early improvement in central visual field; long-term improvement across endpoints. Formulation work ongoing to support P3.

Double-masked, fellow-eye control trial

In double-masked, fellow-eye control trial, improvements observed in Humphrey's visual field ($p < 0.02$), particularly in the central visual field ($p < 0.0001$) which is most impaired in LHON



Open-label extension (at 6 months)



Raw values averaged between eyes; blue = double masked portion of trial, green = OLE; n=12

Neurology



Elamipretide

nuclear Primary Mitochondrial Disease (nPMD) ~7,000*



SBT-272 and pipeline

ALS, MSA and other indications being explored preclinically

The brain accounts for about **2% of our body weight** and consumes about 20% of our total oxygen and about **25% of our total energy supply**.

100s-1,000s of mitochondria are contained in a single neuron.

Neurons depend almost entirely on mitochondrial oxidative phosphorylation for their energy supply.

Mitochondrial dysfunction has been implicated in diseases such as Parkinson's, Alzheimer's and Huntington's diseases and amyotrophic lateral sclerosis (ALS) as well as in genetic mitochondrial diseases.

Wong-Riley, Eye Brain, 2010; Rango, et. al., Genes, 2018..

* All estimates are of US patients affected

nPMD at a glance

Clinical



nPMD patient subgroup improved on 6MWT during MMPOWER Phase 3 trial; data showed significant exposure response relationship.

Enrichment



Primary efficacy analysis to enrich for mitochondrial replisome-related mutations and myopathic phenotype.

Current & next steps

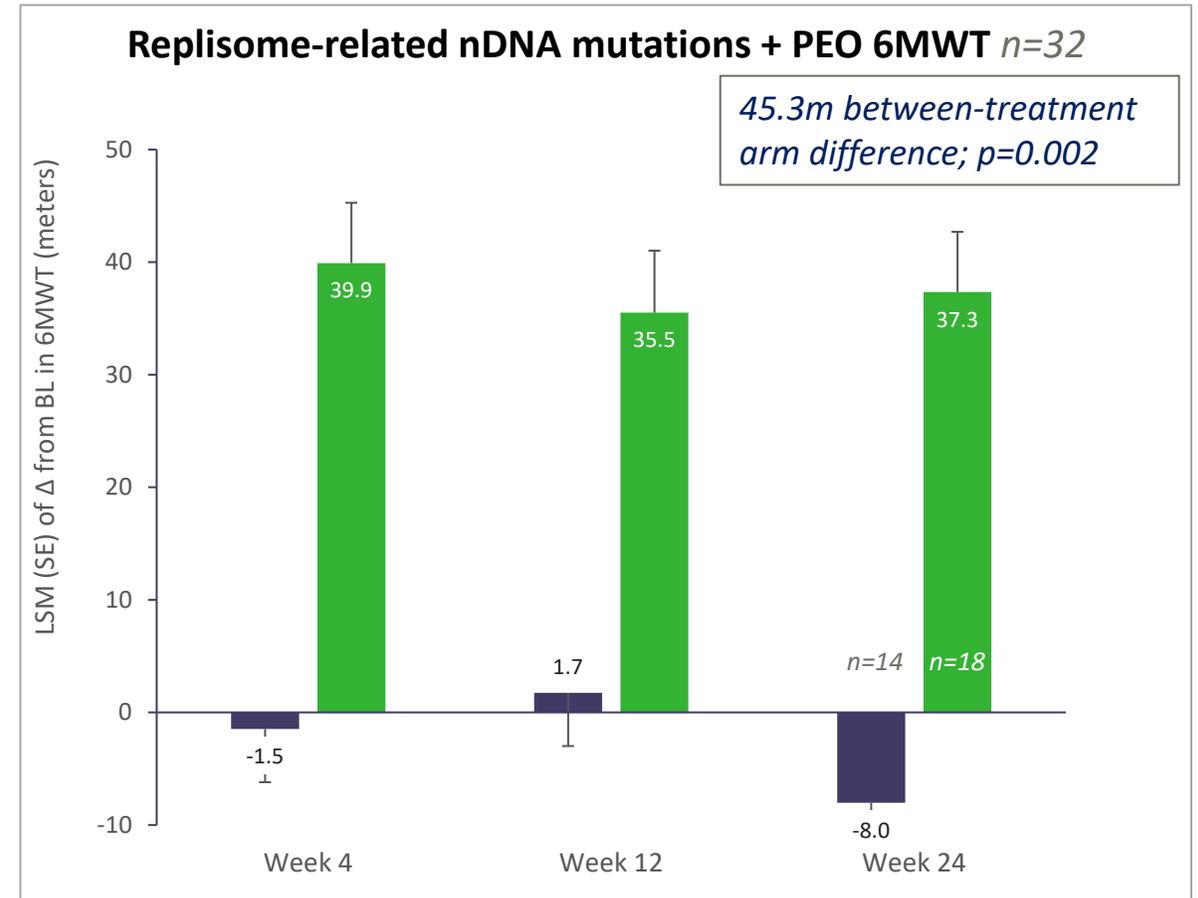
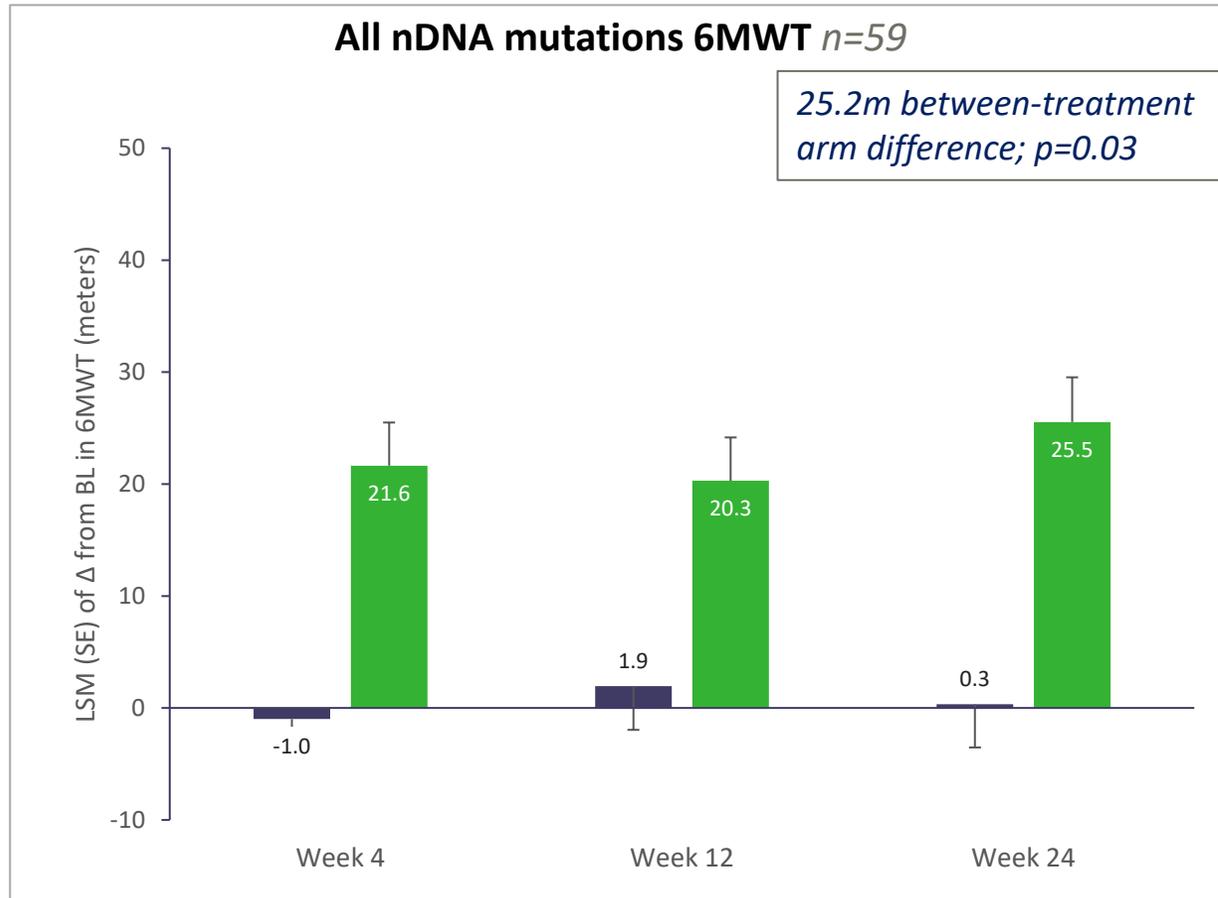


FDA aligned on Phase 3 trial design. Trial initiation planned H2 2021.

nPMD clinical data suggests P3 enrichment strategies

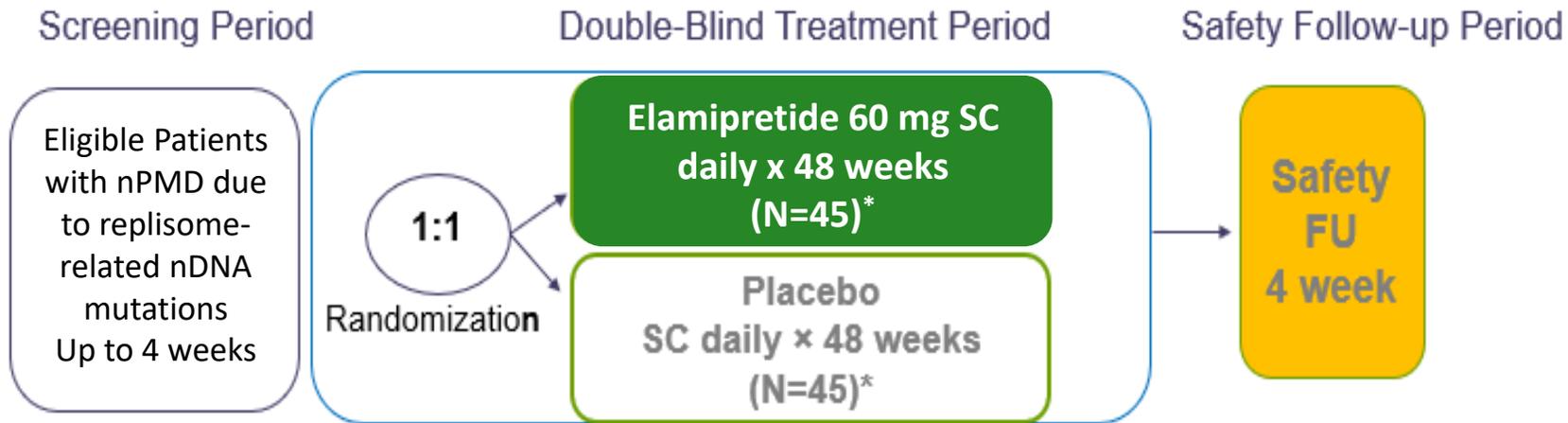
Post-hoc Analyses of 6MWT data in nPMD patients

Enriching for replisome-related nDNA mutations + PEO co-morbidity ensures myopathic phenotype, predicts more robust response



■ Placebo ■ Elamipretide 40 mg

Phase 3 trial design



* Up to 40 additional patients with non-replisome nDNA mutations

- Primary efficacy analysis in patients with POLG and other replisome-related mutations (n=90)
- 60 mg SC once-daily
- 6MWT primary endpoint; 5XSST, 3TUG, PROs secondary endpoints
- 1-year duration
- Initiation H2 2021

Pipeline at a glance



100+

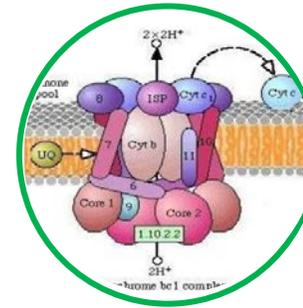
proprietary
differentiated
compounds
multiple families



SBT-272

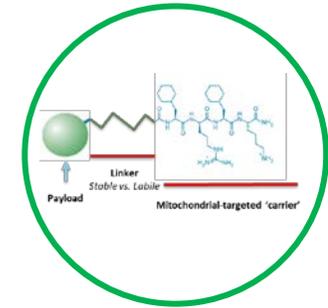
Clinical stage (Phase 1)

- ↑ mitochondrial uptake (>6X)[^]
C_{max} (~3X), AUC (>25X) in rat brain[^]
- ↑ survival in male cohort of ALS SOD-1 model; correlated NfL reduction
- ↑ neurite length, branching in TDP-43 upper motor neurons



SBT-550

SBT-550 series shows dose-dependent improvements in cell viability in Friedreich's ataxia patient-derived fibroblasts



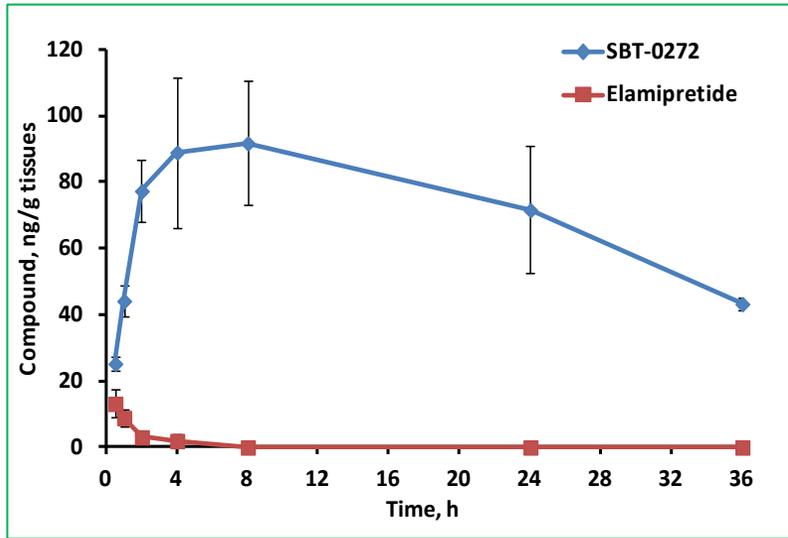
Delivery

Targeting small molecules to the mitochondria

[^] in each case relative to elamipretide; C_{max} = maximum concentration; AUC = area under the drug concentration-time curve; NfL = neurofilament light chain
Stealth BT data on file; Keefe et al., *NEALS* 2019; Gautam, et al., *NEALS* 2020; Wu, et al., *J Mol Neurosci.*, Oct 2018

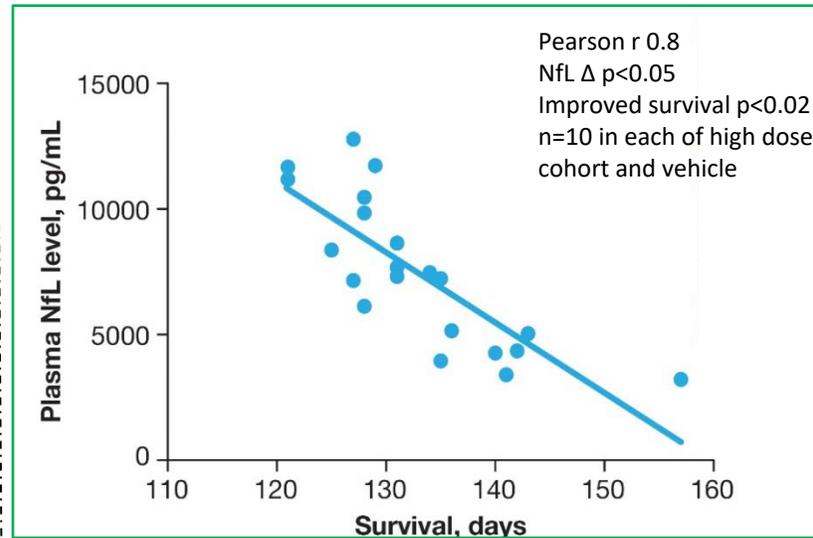
SBT-272 as potential neuronal protective agent

Improved blood-brain-barrier penetration



- Mitochondria-targeted small molecule
- >6X higher mitochondrial uptake relative to elamipretide
- ~3X higher Cmax and >25X higher AUC in brain relative to elamipretide
- Toxicology ongoing to support Phase 1 trial initiation early 2022

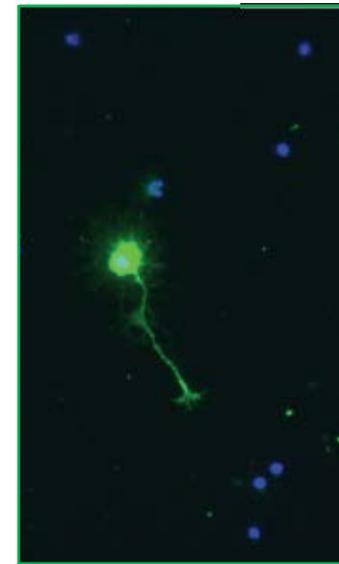
Improved survival, NfL in ALS SOD-1 model



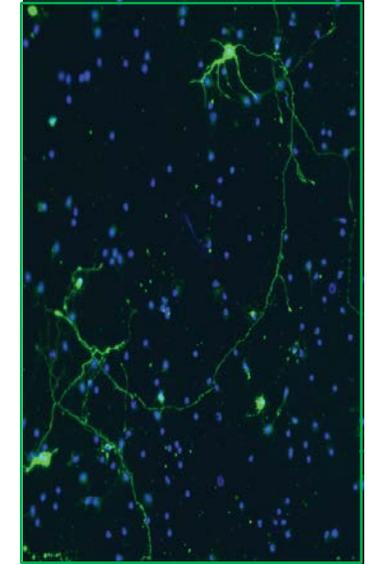
- Survival correlated with improvement in NfL, a biomarker of nerve damage.

Neuroprotection in TDP-43 ALS model

Improved neurite length and branching in mutant TDP43 primary upper motor neurons



Disease – short axon; large growth cones with disintegrating axons



SBT-272 100nM – shift in CSMN morphology and health, very long axons, networking with branch points and arborizations

Stealth BT data on file; showing brain accumulation in Sprague Dawley after 5mg/kg SBT-272 or elamipretide (n=4 per time-point).

Cardiology



Barth <200



Friedreich's ataxia
1:40,000

Duchenne muscular dystrophy
1:3,500 - 5,000

Mitochondria in the healthy heart produce **95%** of the approximately **6 kg** of adenosine triphosphate (ATP) utilized daily to pump blood through the body.

Mitochondria comprise **~35%** of the volume of cardiomyocytes, the primary contractile cells in the myocardium.

Decrements in mitochondrial energy homeostasis trigger numerous responses in gene expression, lead to vicious cycles of damage-mediated signaling, and promote overall remodeling of the heart (dilation, hypertrophy) over time.

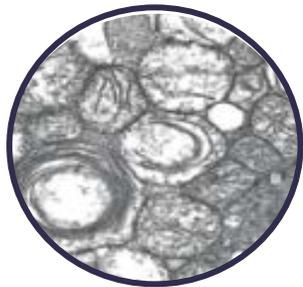
Dudek and Maack, 2016; Martinez et al. 2017; Sabbah, 2020.

All estimates are of US patients affected; BSF Voice of the Patient Report, 2019; Hanson, et.al., World J Cardiol., Jan. 2019; Payne, R.M., Prog. Pediatr. Cardiol., 2011; Giugliano, GR et al., Tex Heart Inst J, 2007; Machiraju et al., Front Cardiovasc Med 2019; Vasan et al., JACC: Cardiovascular Imaging 2018; Sabbah HN. Heart Fail Rev. 2020 Oct 1.

Barth at a glance

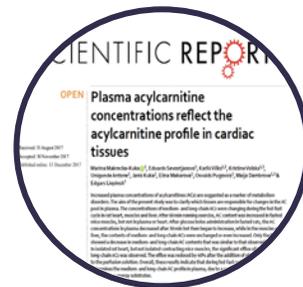
Our Barth development initiative was prompted by requests from advocacy (Barth Syndrome Foundation) and KOLs.

Preclinical models



BTHS derived cardiomyocytes + lymphoblastoid cells; TAZ KD mouse model; lipid bi-layer modeling systems; DCMA fibroblasts Pu, BSF, 2016; Vernon, ongoing; Mitchell, 2019; Allen, 2019, pub. pend., Machiraju, 2019

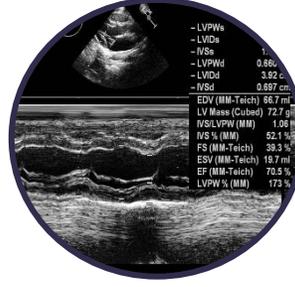
Clinical data



No changes in 6MWT or BTHSA-Total Fatigue during 12-week treatment in TAZPOWER Phase 2/3 crossover trial. Responders observed in pre-specified sub-group. Improvements in metabolic biomarkers; trends toward improved cardiac function.

MDA, 2019, UMDF, 2019

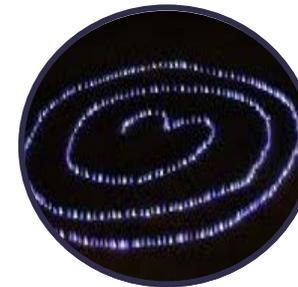
Open-label data



Improvement from Phase 2/3 baseline on multiple pre-specified endpoints (cardiac function, 6MWT, BTHSA-Total Fatigue, Muscle Strength, PGI Symptoms) in 8 patients at week 36 of OLE.

MDA, 2019, UMDF 2019

Natural history comparative control



SPIBA-001 observational study established the effectiveness of elamipretide compared to natural history control with statistically significant improvement on 6MWT (p=0.0005) primary endpoint and other secondary endpoints.

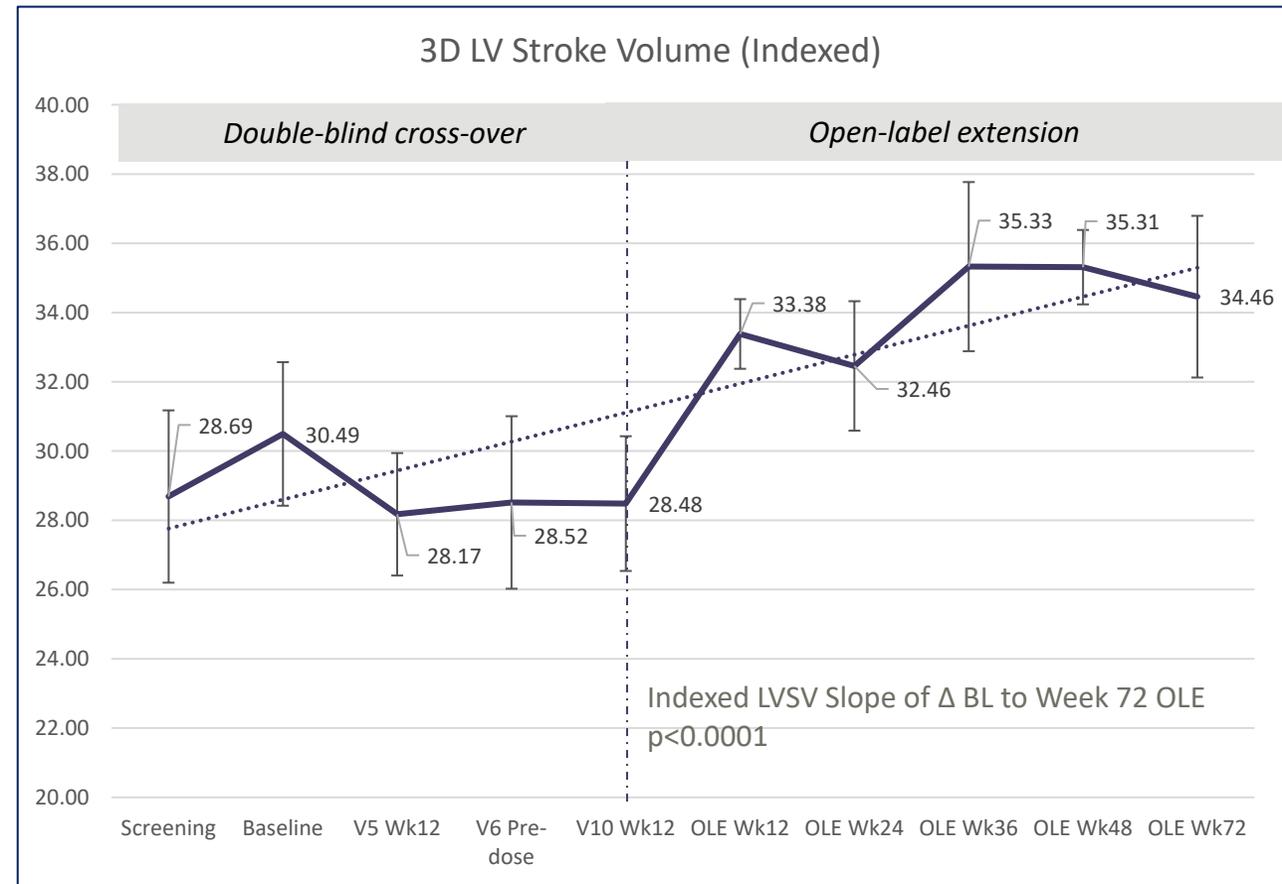
Current & next steps



Rare pediatric, orphan drug and fast track designation. FDA requested additional data to support NDA review, but feasible trial design could not be identified. NDA submission planned during August 2021, but no assurance FDA will file.

Long term data suggests reversal of disease pathology

- **All TAZPOWER patients** had impaired left ventricular function at baseline, with low left ventricular end diastolic, end systolic, and stroke volume.
- **Stroke volume**, the amount of blood pumped by the heart's left ventricle per contraction, is one of the primary determinants of cardiac output, or the volume of blood pumped by the heart, and an important indicator of how efficiently the heart can meet the body's demand for perfusion to various organs.
- **Correlations between improvements in stroke volume and functional endpoints (6MWT) strengthening with long-term OLE therapy (OLE Week 72 $r=0.52$).**
- Changes in cardiac function and structure may suggest **durable reversal of disease pathology.**

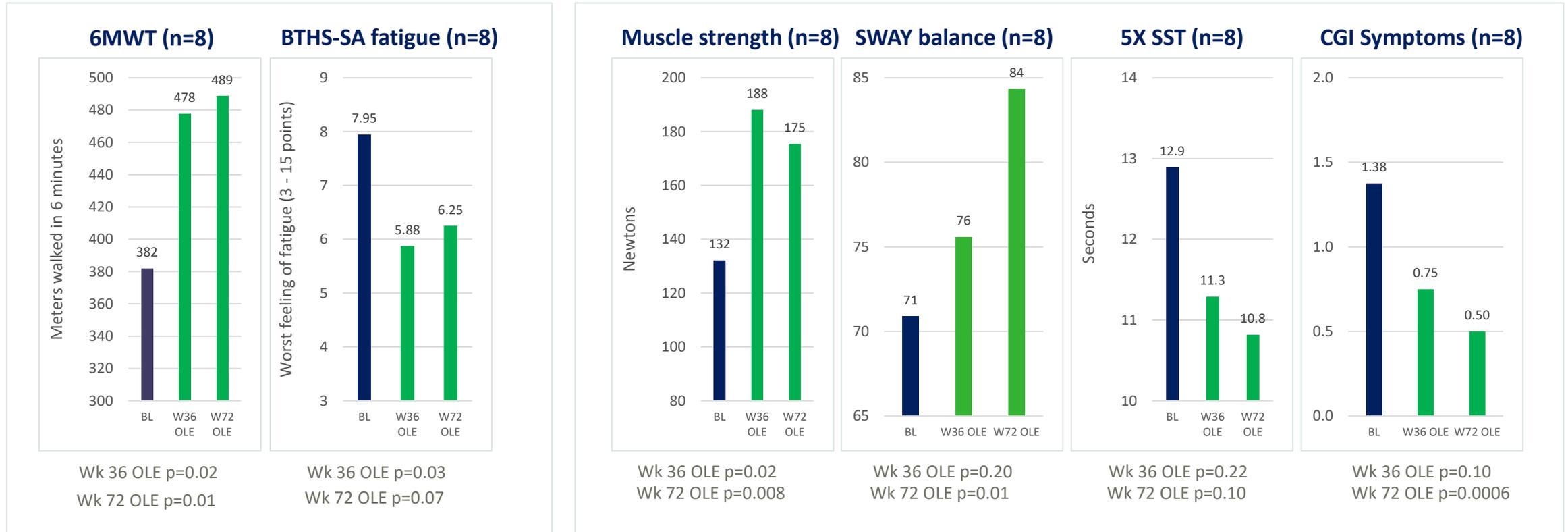


Indexed LVEDV slope of Δ BL to Week 72 OLE $p<0.0001$

Indexed LVESV slope of Δ BL to Week 72 OLE $p=0.0002$

Long term efficacy during OLE

>100-meter improvement in 6MWT, durable >2 years, exceeds reported effects of other drugs in HF trials.¹



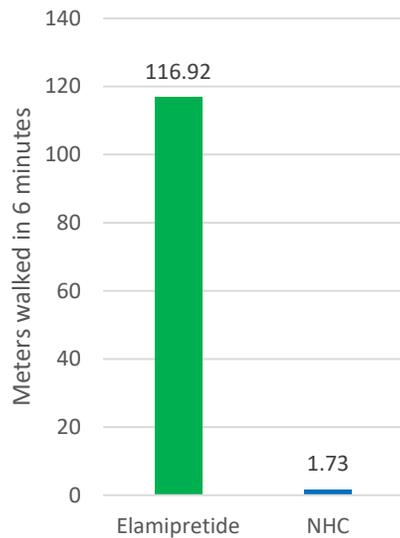
- **Borg scale:** no observed increase in effort from Part 1 baseline through OLE Week 72, suggesting that improvement was not due to expectational bias.

SPIBA-001 Phase 3 met primary endpoint

TAZPOWER Week 72 OLE compared to prognostically matched natural history controls (NHC)*

Primary endpoint

6MWT Δ from baseline



Week 72 OLE: $p=0.0003$

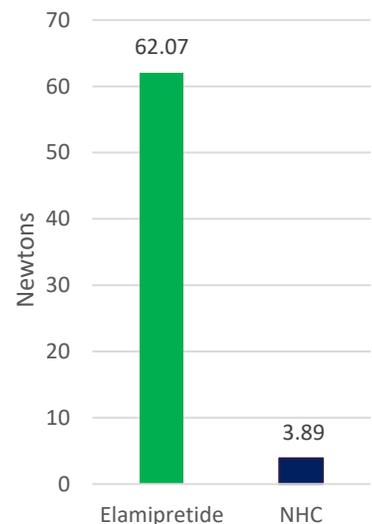
Week 36 OLE: Elam 80.30, NHC 0.60, $p=0.0004$

Week 48 OLE: Elam 91.86, NHC 0.89, $p=0.0005$

*Week 72 analysis conducted post-hoc at FDA request

Secondary endpoints

Muscle strength by HHD Δ from baseline

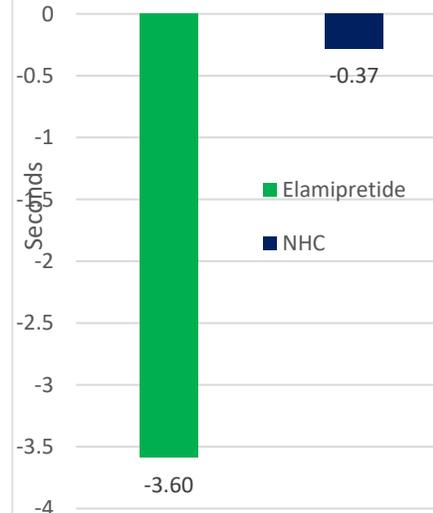


Week 72 OLE: $p=0.0002$

Week 36 OLE: Elam 41.79, NHC 1.04, $p=0.0002$

Week 48 OLE: Elam Δ 48.67, NHC Δ 1.97, $p=0.0005$

5XSST Δ from baseline

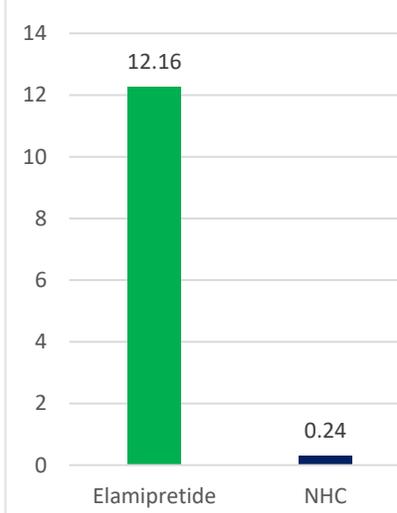


Week 72 OLE: $p=0.008$

Week 36 OLE: Elam -2.36, NHC -0.002, $p=0.042$

Week 48 OLE: Elam Δ -2.83, NHC Δ -0.003, $p=0.034$

SWAY balance Δ from baseline



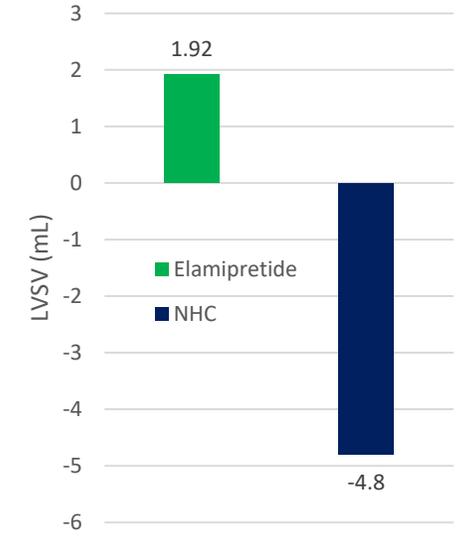
Week 72 OLE: $p=0.03$

Week 36 OLE: Elam 7.40, NHC 0.86, $p=0.13$

Week 48 OLE: Elam 8.81, NHC 1.08, $p=0.12$

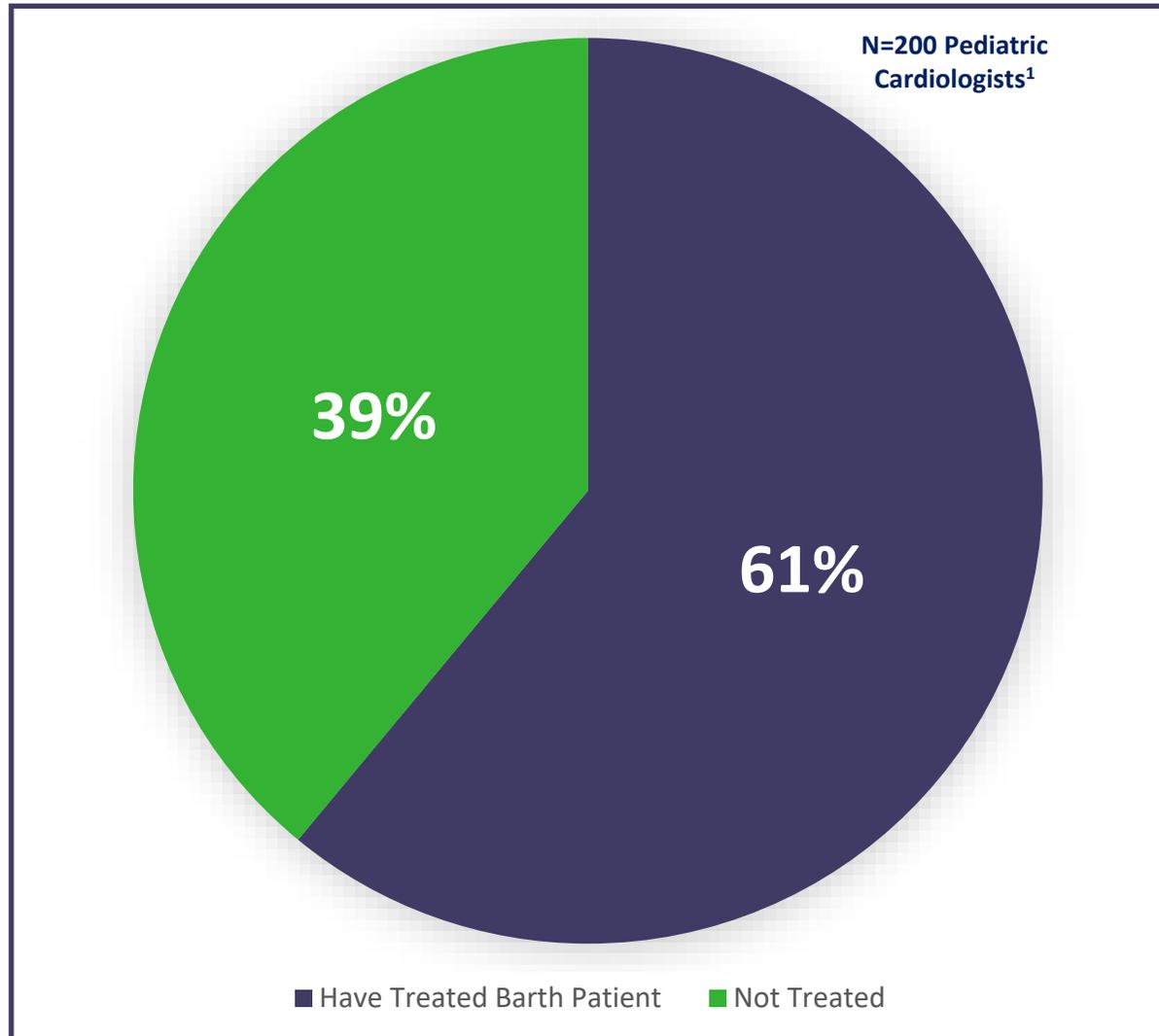
Cardiac function

LVSV Δ from BL



Week 72 OLE: LSM 6.72, $p=0.002$

Broadening Awareness of Unmet Need in Barth



¹ Bruno and Ridgway Research Associated, April 2021, Survey of 200 Pediatric Cardiologists

Publications and Presentations Support the Potential of Elamipretide as the First Treatment for Barth



A phase 2/3 randomized clinical trial followed by an open-label extension to evaluate the effectiveness of elamipretide in Barth syndrome, a genetic disorder of mitochondrial cardiolipin metabolism



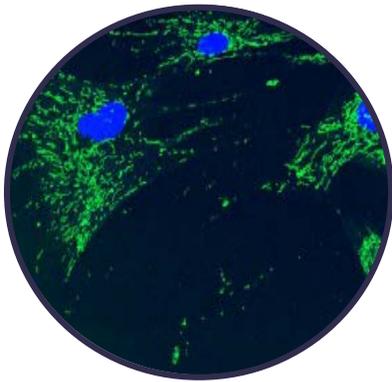
Elamipretide Significantly Improves Disease Symptomatology versus Natural History Controls in Barth Syndrome



Elamipretide Improves Functional Assessments when Compared to the Natural History Progression of Cardiomyopathy-related Disease Symptomatology in Patients with Barth Syndrome

Duchenne cardiomyopathy at a glance

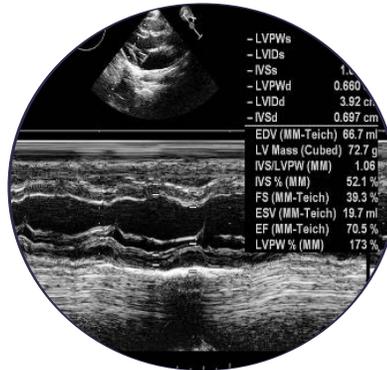
Nonclinical Data



ELAM improves mitochondrial respiration in explanted cardiac tissue from Becker MD patient. SBT-20 (sister compound) improves mitochondrial bioenergetics, ultrastructure, and quality control and reduces fibrosis in DMD mouse.

Stauffer, unpublished, 2020; Hughes, 2019, <https://core.ac.uk/download/pdf/240129932.pdf>.

Natural history



CINRG Duchenne Natural History Study (DNHS): longitudinal (2005-2016) study of >400 Duchenne patients assessing strength and mobility, heart and lung function, clinical care, behavior, community participation and quality of life.

Clinical plan



Expect to meet with FDA H2 2021 to discuss Phase 2/3 trial design followed by trial initiation.

Our company at a glance

Leading
mitochondrial
medicine



Significant
unmet need



First in class
therapies



Multi-asset
platform



Experienced
team



Orphan diseases:

Barth (clinical), LHON (clinical),
FRDA (pending),
Duchenne (planning), nPMM
(clinical), ALS (preclinical)

Age-related diseases:

dry AMD (clinical), glaucoma
(preclinical)

Visual impairment:

~1m US AMD + ~10k
LHON patients

Orphan neurology

Life-limiting

cardiomyopathy:

<200 US Barth patients;
potential for Duchenne,
Friedreich's ataxia

Fast track:

Barth, LHON, AMD w/GA

Orphan drug:

Barth, LHON

Rare pediatric designation:

Barth

No US approved therapies

Pipeline-in-a-product
100+ pipeline compounds
Mito targeting platform
>600 patents issued + pending

>10 decades drug
development experience
**Dedicated to improving
the lives of patients**

