#### Protecting and preserving dystrophic muscle: The balance between exercise and contraction-induced muscle injury

Symposium at the Muscular Dystrophy Association (MDA) Clinical & Scientific Conference

Orlando, FL

Monday March 4, 2024



©2024 Edgewise Therapeutics. All rights reserved

#### Program overview

- Introduction by Joanne Donovan
- John Vissing, MD, PhD, Director, Neuromuscular Clinic and Research Unit, Department of Neurology, University of Copenhagen
  Physical Exercise and Muscle Damage in BMD
- Tanja Taivassalo, PhD, Associate Professor, Department of Physiology and Aging, University of Florida

Overview of Physical Exercise in Boys with Duchenne Muscular Dystrophy

• Joanne Donovan, MD, PhD, Chief Medical Officer, Edgewise Therapeutics

Targeting Protection Against Contraction-Induced Injury in BMD: An Overview of the Sevasemten (EDG-5506) Clinical Program

• Panel Questions and Discussion



### In dystrophinopathy, contraction leads to muscle damage



Dystrophin connects contractile proteins to the membrane and surrounding matrix to protect against contraction-induced injury.

Contraction-induced muscle injuries occur in the absence of full-length dystrophin.



Optimizing the level of physical activity is a delicate balance in muscular dystrophies







- Since lack of dystrophin leads to contraction-induced damage in dystrophinopathies, is all muscle fiber contraction "bad" in muscular dystrophies?
- How can circulating biomarkers of muscle injury provide an understanding of contractioninduced injury in muscular dystrophies?
- Are there benefits to prescribed exercise in muscular dystrophies?
- Can targeting contraction-induced injury in muscular dystrophies with sevasemten (EDG-5506), a fast myosin inhibitor be an effective pharmacological approach in DMD and BMD?



#### Physical Exercise and Muscle Damage in Becker Muscular Dystrophy

#### John Vissing, MD, PhD

Director, Copenhagen Neuromuscular Center Department of Neurology, University of Copenhagen







### Disclosures for John Vissing

- Consultant on advisory boards for Edgewise Therapeutics, Roche, Sanofi Genzyme, Sarepta Therapeutics, Novartis Pharma AG, Fulcrum Therapeutics, Biogen, Lupin, Amicus, Zogenix, Regeneron, Argenx BVBA, UCB Biopharma SPRL, Arvinas, ML Biopharma, Atamyo, Horizon Therapeutics, Dyne Therapeutics
- Research, travel support, and/or speaker honoraria from Sanofi Genzyme, Alexion Pharmaceuticals, Edgewise Therapeutics, Fulcrum Therapeutics, and UCB Biopharma SPRL
- Principal investigator in clinical trials for Edgewise Therapeutics, Sanofi Genzyme, Roche, Horizon Therapeutics, Argenx BVBA, Novartis Pharma AG, Alexion Pharmaceuticals, UCB Biopharma SPRL, Genethon, ML Biopharma, Reneo Pharma, Pharnext, Janssen Pharmaceutical, Khondrion, Regeneron, and Dynacure SAS, Janssen



# Injury biomarkers with exercise in Becker and McArdle disease

#### 20 mins, 95% VO<sub>2</sub> Max bike exercise followed by 40 leg presses at 80% 1-RM max



Source: Figure adapted from Dahlqvist JR, Voss LG, Lauridsen T, Krag TO, Vissing J. A pilot study of muscle plasma protein changes after exercise. *Muscle Nerve*. 2014;49(2):261-266. doi:10.1002/mus.23909



### Methodology: Exercise challenge and SomaScan® analysis





PI: Mads Stemmerik (CMRC, Rigshospitalet, Copenhagen) Ben Barthel (Edgewise Therapeutics)



#### Participants and demographics

	N	% Male	Age (yrs)	ВМІ	VO2 <sub>Max</sub> (mL min <sup>-1</sup> kg <sup>-1</sup> )	WMax (J sec⁻¹)	% HR <sub>Max</sub>	1-RM (kg)
Control	9	77.8	44 ± 13	24.5 ± 2.4	38.8 ± 3.5	278 ± 53	100 ± 7.2	96 ± 26
BMD	9	100	33 ± 7	23.6 ± 2.9	22.9 ± 8.5	113 ± 107	94.4 ± 8.9	38 ± 41
LGMD2I	8	12.5	30 ± 10	22.6 ± 2.7	26.1 ± 8.5	132 ± 71	95.4 ± 5.3	49 ± 29
LGMD2L	9	66.7	52 ± 9	27.1 ± 4.4	27.6 ± 11.4	176 ± 89	96.6 ± 9.8	70 ± 44



#### Identification of a shared pre-exercise baseline signature





#### Exercise dynamics of baseline signature proteins



Most and least responsive proteins



# Validation of the universal baseline signature using Becker data





## Exercise responsive and nonresponsive proteins show opposing age correlations





#### Conclusions and future questions

- We have identified and validated a common signature of biomarkers that are elevated in several muscular dystrophies, including Becker
- Exercise responsive and nonresponsive markers exhibit opposite directional correlations with age
- Can exercise nonresponsive biomarkers be leveraged as more stable indicators of disease progression and/or treatment effects over long time-frames?
- Can exercise responsive biomarkers be used as a more sensitive biomarker set to measure muscle injury in an interventional trial?

The findings show that you can certainly induce muscle damage by exercise in Becker, but does that mean that exercise should be avoided?



#### Training in dystrophinopathies





# Animal studies have suggested a potential deleterious effect of training in muscular dystrophies



Sacco P, Jones DA, Dick JR, Vrbová G. Contractile properties and susceptibility to exerciseinduced damage of normal and mdx mouse tibialis anterior muscle. *Clin Sci (Lond)*. 1992;82(2):227-236. doi:10.1042/cs0820227.

Carter GT, Abresch RT, Fowler WM Jr. Adaptations to exercise training and contraction-induced muscle injury in animal models of muscular dystrophy. *Am J Phys Med Rehabil*. 2002;81(11 Suppl):S151-S161. doi:10.1097/00002060-200211001-00016.



#### Is it safe to train a sick muscle?





#### Healthy muscle



#### **Dystrophic muscle**





#### 12-week and 1-year aerobic exercise training in 11 men with Becker

Patients included in this study had a relatively mild Becker phenotype





### 3-month and 12-month aerobic training in Becker



**Reference:** Sveen ML, et al. Endurance training improves fitness and strength in patients with Becker muscular dystrophy. *Brain.* 2008;131(Pt 11):2824-2831. doi:10.1093/brain/awn189.



# Effect of aerobic training on strength in leg muscles of Becker patients

	3 mo.	3 mo.	12 mo.
	10	n=6	n=6
Hip Flexion	$8\pm4$	$7\pm3$	14±8 *
Hip Extension	$2\pm4$	$3\pm7$	$2\pm7$
Hip Adduction	$-6 \pm 27$	$14 \pm 7$	$15\pm 8$
Hip Abduction	22±7 *	$18 \pm 6 *$	13 ± 7 *
Knee Flexion	$5 \pm 11$	$16 \pm 4 *$	$13 \pm 8$
Knee Extension	$14 \pm 12$	31 ± 15 *	40 ± 15 *
Foot Dorsiflexion	13±6 *	$15 \pm 4 *$	25±5 *
Foot Plantar flexion	20±4 *	16±4 *	21±5 *

Significance is corrected for 5% intra-observer variance. \* p < 0.05.

## Plasma creatine kinase before and during training in 11 patients with Becker



### Training Becker: Conclusions

- Aerobic training is safe
- Aerobic training improves endurance and muscle strength
- The effect is long-lasting



#### Weak patients: can we train them?

• It is generally believed that muscles weaker than 10% of normal are not trainable



### 6 months of strength training in LGMD2I and Becker





**Reference:** Resistance training in patients with Limb Girdle and Becker muscular dystrophies. Sveen ML, Andersen SP, Ingelsrud LH, Blichter S, Olsen NE, Jønck S, Krag TO, Vissing J. *Muscle Nerve*. 2013;47(2): 163-169. doi: 10.1002/mus.23491.



#### Patient Using an Antigravity Treadmill





#### Timetable for study design



**Reference:** Berthelsen MP, Husu E, Chistensen SB, Prahm KP, Vissing J, Jensen BR. Anti-gravity training improves walking capacity and postural balance in patients with muscular dystrophy. *Neuromuscul Disord*. 2014; 24(6): 492-8. doi: 10.1016/j.nmd.2014.03.001.



#### Dynamic postural balance test





### Training effects on dynamic postural balance



**Reference:** Berthelsen MP, Husu E, Chistensen SB, Prahm KP, Vissing J, Jensen BR. Anti-gravity training improves walking capacity and postural balance in patients with muscular dystrophy. *Neuromuscul Disord*. 2014; 24(6): 492-8. doi: 10.1016/j.nmd.2014.03.001.



### Training effects on 6-min walking distance



**Reference:** Berthelsen MP, Husu E, Chistensen SB, Prahm KP, Vissing J, Jensen BR. Anti-gravity training improves walking capacity and postural balance in patients with muscular dystrophy. *Neuromuscul Disord*. 2014; 24(6): 492-8. doi: 10.1016/j.nmd.2014.03.001.



Training effects on closed-kinetic chain leg muscle strength



**Reference:** Jensen BR, Berthelsen MP, Husu E, Christensen SB, Prahm KP, Vissing J. Body weight-supported training in Becker and limb girdle 2I muscular dystrophy. *Muscle Nerve*. 2016;54(2):239-243. doi:10.1002/mus.25039.



#### Assisted cycling for wheelchair users





# Aerobic training in wheelchair users with muscular dystrophies



Nanna Scharff Poulsen, MD Unpublished data



#### Assisted training of wheelchair users: end-points

- Increase cardiovascular fitness
- Increase strength, but probably with minor functional importance
- Alleviate pain from sitting (butt and back)
- Alleviate GI symptoms related to immobilization





#### • Do train your patients with BMD!

- Stronger patients can be trained using similar exercise principles as for healthy
- Weak patients are trainable. Use assistive devices (motorized ergometers, using antigravity, etc)
- Both strength and endurance training are beneficial, but aerobic exercise is likely safer, has greater and quicker efficacy response
- Better endpoints. Endpoints differ according to phenotype. We need valid PROs. Long time follow-up/compliance in a real-world setting



#### **Overview of Physical Exercise in Boys with Duchenne Muscular Dystrophy**

#### Tanja Taivassalo, PhD

Associate Professor, Department of Physiology and Aging University of Florida



©2024 Edgewise Therapeutics. All rights reserved


- Travel support, and/or speaker honoraria from Edgewise Therapeutics
- Consultant for CFD Research Corporation



### Does exercise exacerbate or protect muscle in DMD?



### Recommendations to Define Exercise Prescription for Duchenne Muscular Dystrophy

Robert W. Grange and Jarrod A. Call Exercise and Sciences Reviews, 2007





Exercise intensity and frequency induce varying signaling pathways to remodel muscle and increase resiliency



↑mitochondria↑antioxidants and reduce ROS

↑Ca<sup>2+</sup> handling

Eter Cise

▲blood vessel formation

↑ Utrophin expression along sarcolemma

12-weeks voluntary wheel running induces slow oxidative phenotype in *mdx* mice



## In *mdx* mice, contraction-induced injury is dependent on the type of exercise



References: 1. Petrof et al, 1993. 2. Kobayashi et al. 2012. 3. Mathur et al, 2011.

### Early studies suggested link between physical activity and muscle degeneration in boys with DMD

ACTIVI:

Pseudohypertrophic muscular dystrophy

Distribution of degenerative features as revealed by an anatomical study

Charles A. Bonsett, M.D. 1963

intimately related to, or affected by, physical activity which hastens the muscle's demise.

Effect of Exercise on Patients with Duchenne Muscular Dystrophy

Hubert Pöche<sup>a</sup>, Werner Hopfenmüller<sup>b</sup>, Manfred Hoffmann<sup>b</sup>





3

### Serum CK tracks physical activity



# First study of strength training in DMD did not support negative effects of exercise

The Effect of Exercise in Muscular Dystrophy

Paul J. Vignos, Jr., MD, and Mary P. Watkins



1. Performance of hip-abduction exercise with weight for assistance.

- n=12 boys (5-10 yrs)
- 10 reps of each (hip abduction, hip extension, knee extension, arm flexion, sit ups
- daily for first 6 months/ 3-5 times per week for following 6 months
- no 'ill' effects
- Increase in weight lifted at 4 months

provement. The opinion that active forms of exercise are deleterious in muscular dystrophy is not supported by our results. The suggestion that exercise programs should consist of only a small number of repetitions because of rapid, easy fatigue which might contribute to further deterioration of muscle strength is, also, not supported.<sup>4</sup> The pa-

Table 2.--Changes in Muscle Strength in Exercised and Unexercised Patients With Duchenne Muscular Dystrophy

	Age at Beginning of Program (Yr)	Functional Class,* Beginning of Program	% Muscle Strength at Beginning of Program	Change in % Muscle Strength During Year Before Program	Change in % Muscle Strength During Year of Program
Unexercised patients (14)	in the second		p Gabria Incontr.		
Mean	7.7	2.1	61	- 3.36	- 7.71
SD				6.82	2.61
Exercised patients (14)	18429-5477 FA (24)	Salar Salar	PROPERTY OF		a contrate
Mean	7.4	2.0	59	- 8.0	+1.07
SD				3.04	3.76
p	A CONTRACTOR OF A CONTRACTOR O			> 0.5	< 0.01 *



# No evidence of muscle damage after acute isometric strength exercise in boys with DMD



**Eccentric contraction** 



 Received: 4 June 2020
 Revised: 2 December 2020
 Accepted: 6 December 2020

 DOI: 10.1002/mus.27137
 DOI: 10.1002/mus.27137
 DOI: 10.1002/mus.27137

DOI: 10.1002/mus.2/13/

CLINICAL RESEARCH ARTICLE

MUSCLE&NERVE

Safety, feasibility, and efficacy of strengthening exercise in Duchenne muscular dystrophy

Donovan J. Lott PT, PhD<sup>1</sup> | Tanja Taivassalo PhD<sup>2</sup> | Korey D. Cooke DPT<sup>1</sup> | Hyunjun Park BS<sup>1</sup> | Zahra Moslemi OT, MS<sup>3</sup> | Abhinandan Batra PT, PhD<sup>1</sup> | Sean C. Forbes PhD<sup>1</sup> | Barry J. Byrne MD, PhD<sup>4</sup> | Glenn A. Walter PhD<sup>2</sup> | Krista Vandenborne PT, PhD<sup>1</sup>



#### CK response to acute isometric exercise

### T2 weighted MRI Baseline



### + 48 hours (-0.3% change in T2)





# Isometric strength training is safe and effective in boys with DMD



(A)

551

50·

45

40

35-

30

Muscle T<sub>2</sub> (ms)

### **Exercise parameters:**

- 12 weeks (3x/week)
- Isometric strengthening at 50% MVC
- At home, remotely supervised
- High (>85%) compliance to intervention





# Motor-assisted cycle exercise training is safe and has potential to delay functional deterioration in DMD

Assisted Bicycle Training Delays Functional Deterioration in Boys With Duchenne Muscular Dystrophy: The Randomized Controlled Trial "No Use Is Disuse"

Al Neurorehabilitation and Neural Repair 27(9) 816-827 © The Author(s) 2013 Reprints and permissions: sagepub.com/journalsPermissions.nav DOI: 10.1177/1545968313496326 nnr.sagepub.com ©SAGE Jensen M, et al



Figure 3 Posture during dynamic leg and arm training



### Exercise parameters:

- 6 months (5 x per week, 15 min)
- Assisted ergometry (motor support using KPT)
- Intensity = OMNI < 6</li>

### <u>Results:</u>

- 6% decline in motor function in control group
- Motor function measure stable in exercise group

### Considerations:

- No measures of muscle damage obtained
- No information on how much work was performed



# Development of an active cycling paradigm to induce adaptation in dystrophic muscle



Time (sec)



# 6-month home-based cycle exercise training intervention





# No evidence of muscle damage after 6-months cycling exercise



# Cycle exercise training induces physiological adaptations

**Reduction in motor-assistance** 







Cycle training normalizes physiological responses to submaximal exercise and improves peak exercise capacity



Reference: Data on File



# Impact of cycle training on functional performance is variable; bone density is maintained



**Timepoint (months)** 



## Cycle exercise training improves muscle oxidative capacity and fat fraction



Reference: Work from Dr. S. Forbes

Willcocks, R. 2023

# Exercise training improves quality of life in boys with DMD

1. Since your child began the exercise training, how would you describe your child's overall physical wellbeing?

					- Chi	
1	2	3	4	5	6	(7)
Very much	Much	Somewhat	No change	Somewhat	Much	Very much
worse	worse	worse		improved	improved	improved

Briefly explain your response or provide an example in your own words:

	Will	ING	TO	RUN	DOW	N TO	THE N	ELGHBORS	H	DOSE (1/4	MILE)
E BACK I	HOME.										
	GYM	TEAG	HER	SAUS	HE	ISNT	TAKING	BREAKS	IN	CLASS	
ANVAJORE	E H	FIS	DAN	TICIDA	TACA	1/07	- NIDE				

9. Since your child began exercise training, how would you describe your child's overall quality of life?

1	2	3	4	5	6	(7)
Very much	Much	Somewhat	No change	Somewhat	Much	Very much
worse	worse	worse		improved	improved	improved

#### Briefly explain your response or provide an example in your own words:

		OVERI	ALL	QUA	LITY	15	BETT	ER	FOR	All	OFT	Tite	REASON	S
STA	FED A	BOVE	. HE	ISN	TS	SITTIN	6 0	UTO	FAS	MAN	1 407	IVITI	ES AS	
HE	ONCE	DID	AND	15	STRO	NGER	IN	1.115	BELL	EES	THAT	HE	CAN	DO
IT.														

1. Since your child began the exercise training, how would you describe your child's overall physical wellbeing?

1	2	3	4	5	6	7
Very much	Much	Somewhat	No change	Somewhat	Much	Very much
worse	worse	worse		improved	improved	improved

Briefly explain your response or provide an example in your own words: He himself feels stronger which Makes him want to help himself More Caet out of a chair independently of ress himself. I also feel the muscles in his legs are more noticeable. He also says "mon watch I can run faster"

2. Since your child began exercise training, how would you describe your child's energy levels?

						<b>N</b>		
1	2	3	4	5	6	)	7	
Very much	Much	Somewhat	No change	Somewhat	Much	1	Very much	
worse	worse	worse	Here William	improved	limprove	d )	improved	
						_		

Briefly explain your response or provide an example in your own words; He now is wanting to be more active and asks to go swimming and also wants to play more and will do activities longer



## ...and boys don't want to stop exercising





# Take home messages about exercise in DMD

- Frequency and dose of exercise play an important role in therapeutic outcomes
- **Appropriate** exercise is <u>safe</u> and feasible for boys with DMD
  - Moderate intensity (~50% MVC) isometric strength exercise
  - Moderate intensity (50-60% HRR) active cycling
- Appropriate exercise is <u>effective</u>, reversing deconditioning and promoting adaptations similar to healthy muscle
- Preliminary evidence that cycle (aerobic) exercise training may protect muscle from excessive contraction-induced injury, leading to better outcomes
- Further work needed (serum biomarkers, systemic benefits)
- Exercise needs to be considered as an **adjuvant** to other developing therapeutics for DMD



## Acknowledgements

- Dr. S. Forbes ٠
- Dr. D. Lott ٠
- M. Bomma, Bsc ٠
- Dr. L Sweeney ٠
- Dr. G. Walter ٠
- Dr.Vandenborne ٠
- Dr. R. Willcocks •
- ٠
- •
- ٠

- J. Berthy, RN ٠
- J. Lammers, PT ٠
- T. Cousins, DNP
- Dr. M. Corti ٠
- C. Powers ٠
- V. Bordeaux
- Dr. A. Bernier
- Dr. J. Sladky
- Dr. C. Zingariello



- Dr. W. Dixon
- Dr. K. Stubbs
- H. Sweatland. W81XWH191033)
- E. Griffins •



- Supported by Department
- of Defense (Grant number:
- Clinical Trials.gov: NCT04322357





### The Patients and Families!





# Targeting protection against contractioninduced injury in Becker: an overview of the sevasemten (EDG-5506) clinical program

Joanne Donovan, MD, PhD

Chief Medical Officer Edgewise Therapeutics



©2024 Edgewise Therapeutics. All rights reserved

# **Contraction-induced muscle damage & sevasemten (EDG-5506)**



# In dystrophinopathy, **fast muscle fibers** are disproportionately injured by contraction



Dystrophin connects contractile proteins to the membrane and surrounding matrix to protect against contraction-induced injury.

Contraction-induced muscle injuries occur in the absence of full-length dystrophin.



## A new strategy to rebalance dystrophic muscle:

sevasemten (EDG-5506) designed to address the root cause of muscular dystrophy



Sarcomere protected from damage

# Sevasemten (EDG-5506) targets fast myosin to protect dystrophic muscle against contraction-induced injury in mouse models

### Contracting at 100% without sevasemten (EDG-5506)



In *mdx* mouse muscle, even a few contractions cause visible injury

# Contracting at 85% following sevasemten (EDG-5506) administration



By minimally decreasing contraction, while preserving function, contraction-induced injury is prevented

Both videos have been sped up 3x Reference: Russell AJ, et al. J Clin Invest. 2023;133(10):e153837. doi:10.1172/JCI153837



# **ARCH study overview**





An open-label, single-center study to assess sevasemten (EDG-5506) safety and pharmacokinetics in adults with Becker

- **Primary objective:** Safety and tolerability over 24 months
- **Key inclusion criteria:** Ambulatory males aged 18 to 55 years with a dystrophin mutation and a BMD phenotype, not on corticosteroids, who could complete 100-m timed test
- Patients enrolled: 12



### Study design - 24 months



# ARCH Significant functional impairment & decreased muscle mass at baseline

CHARACTERISTIC	BECKER PARTICIPANTS (n=12)	AGE NORMATIVE VALUES	
Age (SD)	33 (8) years	_	
Functional Measures (median)			Duchenne
10-meter walk/run	8.4 sec	< 4 sec	patients in clinical trials, all Becker
Rise from floor	6/12 could perform	< 3 sec	patients in ARCH were in
NSAA	15.5 (range 4-31)	_	functional
Serum Creatinine (mean, mg/dL)	0.44	0.92 - 1.16	decline
Serum CK (mean, U/L)	1,390	<210	
DXA % Lean Mass	55%	>75%	



# ARCH Sevasemten (EDG-5506) was well-tolerated at all doses

### NUMBER OF PATIENTS REPORTING >1 AE

#### **AFTER 12 MONTHS OF DOSING**

	4 (33%)	Dizziness
	4 (33%)	COVID-19
No dose	4 (33%)	Arthralgia
reductions/	3 (25%)	Somnolence
adjustments,	3 (25%)	Headache
discontinuations	3 (25%)	Nasopharyngitis
or SAEs	3 (25%)	Fall*
	3 (25%)	Viral URI
	2 (17%)	Influenza
	2 (17%)	Sinusitis
	2 (17%)	GERD
	2 (17%)	Procedural pain

\* Unassociated with other AEs and typical of falls observed in Becker patients Reference: Data on file



# ARCH Sevasemten (EDG-5506) led to a sustained decrease in biomarkers of muscle damage after 12 months of dosing

Creatine kinase (CK)



### Fast skeletal muscle troponin I (TNNI2)

TNNI2 data projected from SOMAscan; % difference from baseline shown; Means ± SEM (\*\*p=0.001 and \*\*\*p<0.0001) Reference: Data on file



# ARCH Biomarkers of muscle damage show **near maximal decrease at 2 months** of 10 mg daily dosing

### Creatine kinase (CK)



### Fast skeletal muscle troponin I (TNNI2)

Rapid, significant and sustained decreases in biomarkers of muscle damage



ARCH
 I.2 point predicted by natural history

## NSAA change over 12 months

## Individual ARCH participant NSAA responses at 12 months



Means ± 95% CI; Natural history based on data presented by Luca Bello at MDA (2022) and van de Velde NM et. al., Neurology, 2021 Abbreviations: NSAA, North Star Ambulatory Assessment Reference: Data on file



ARCH
 I.2 point predicted by natural history

# NSAA change over 12 months

# Individual ARCH participant NSAA responses at 12 months



Means ± 95% CI; Natural history based on data presented by Luca Bello at MDA (2022) and van de Velde NM et. al., Neurology, 2021 Abbreviations: NSAA, North Star Ambulatory Assessment Reference: Data on file



# ARCH Self-reported pain scores trended better after 12 months with sevasemten (EDG-5506)



While the ARCH study is not placebo controlled, a positive trend in self-reported pain scores was observed after 12 months of sevasemten (EDG-5506) dosing



ARCH **No decline from baseline** at 12 months on other functional endpoints

## 100-Meter Timed Test Velocity



No statistically significant change at 12 months

## Maximum Grip Strength



No statistically significant change at 12 months

All N=12, except for 2 missing values, month 4 and 8 for which last observation was carried forward Mean ± SEM Reference: Data on file



# ARCH Outcomes of the ARCH study



Edgewise 7


An 18-month long trial to evaluate the effect of sevasemten (EDG-5506) on efficacy and safety in individuals living with Becker

## Key inclusion criteria:

- ✓ Male, ages 18-50
- Mutation in Duchenne gene with Becker phenotype
- Ambulatory with NSAA between 5 and 32

Anticipated to enroll 120 adult males diagnosed with Becker muscular dystrophy in the US and Europe



## Sevasemten (EDG-5506) ongoing trials in muscular dystrophy







- We wish to thank the patients, investigators, study site personnel, and all those helping facilitate clinical trials and improving care!
- To inquire about clinical trial participation, email: <u>studies@edgewisetx.com</u>
- To learn more about us and our commitment to rare muscular dystrophies, visit us at Booth #501

