



# Building the World's Leading Muscle Disease Company

COMPANY OVERVIEW | NOVEMBER 2024



Sarah, living with DM1

# Forward-Looking Statements & Disclaimer

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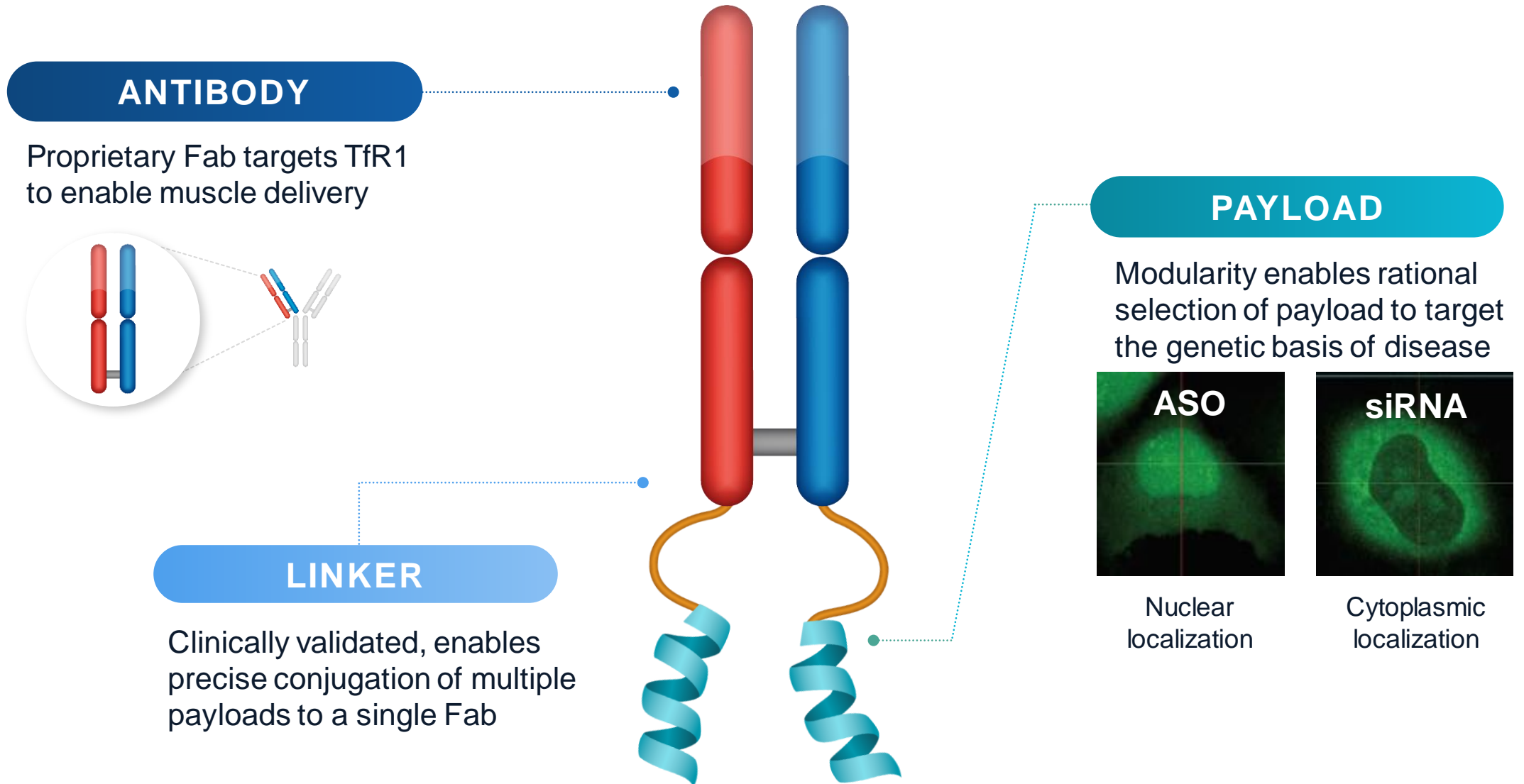
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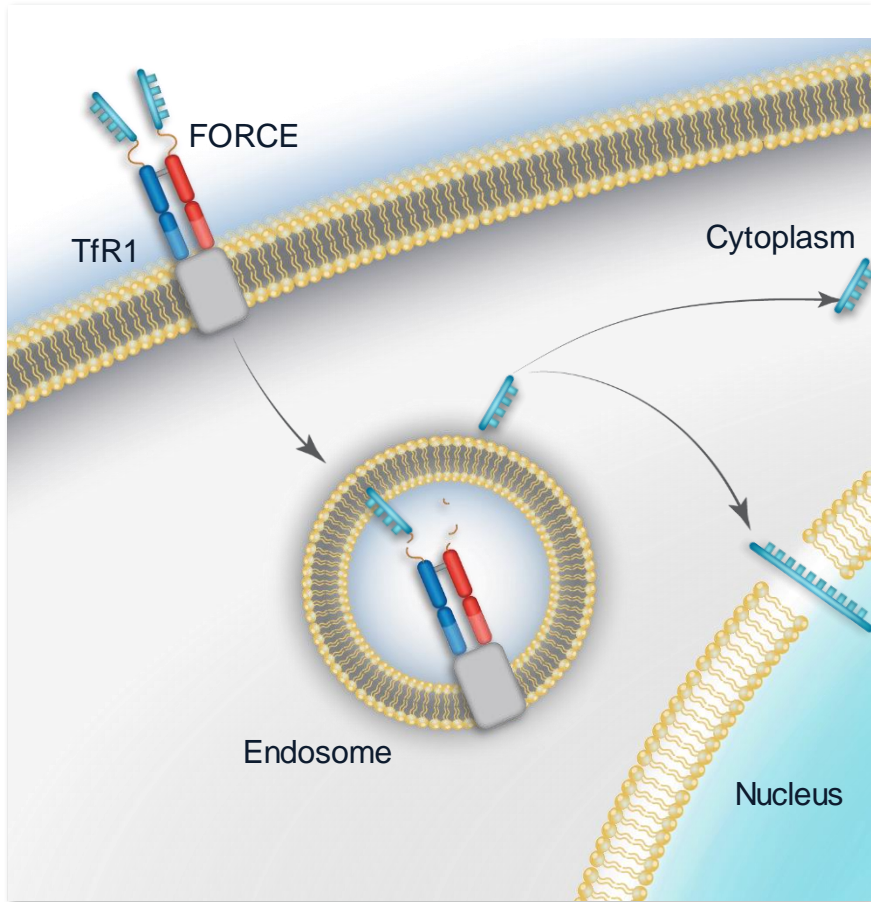
OUR MISSION

**Life-transforming therapies**  
for patients with serious muscle diseases

# Dyne FORCE™ Platform: Modern Oligo Therapeutics for Muscle Diseases



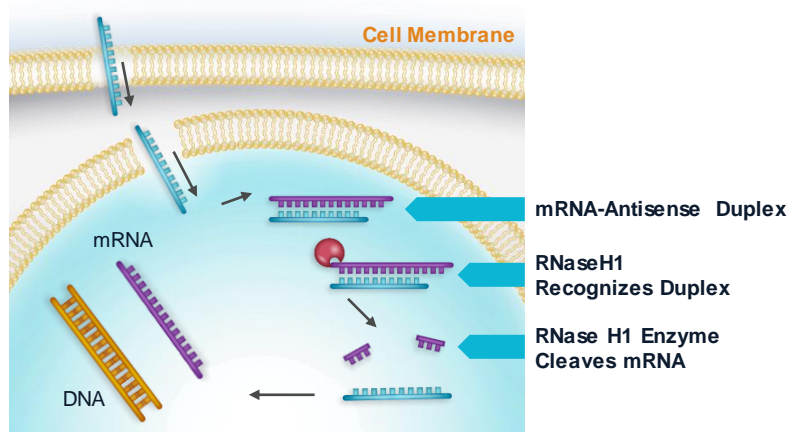
# FORCE Platform Harnesses Cell Biology to Modify Disease



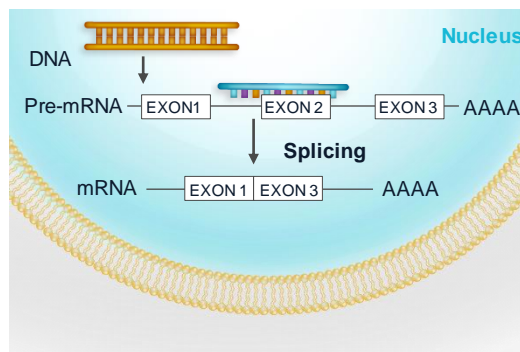
- Harnesses natural mechanism of TfR1 receptor-mediated delivery to transport therapeutics across the cell membrane
- Achieves endosomal escape without any membrane-destabilizing agents
- Distinctive pharmacokinetic profile creates opportunity for durable target engagement and wide therapeutic index

# Rationally Select Payload to Target Genetic Basis of Disease

## ASO acts in the nucleus and cytoplasm

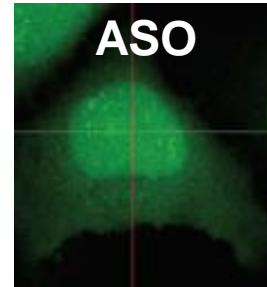


## Splice-modulating ASO



Single-Stranded Antisense

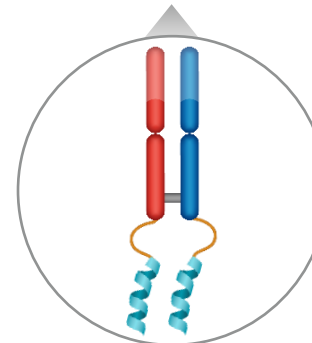
## Subcellular distribution of ASO and siRNA



Nuclear localization

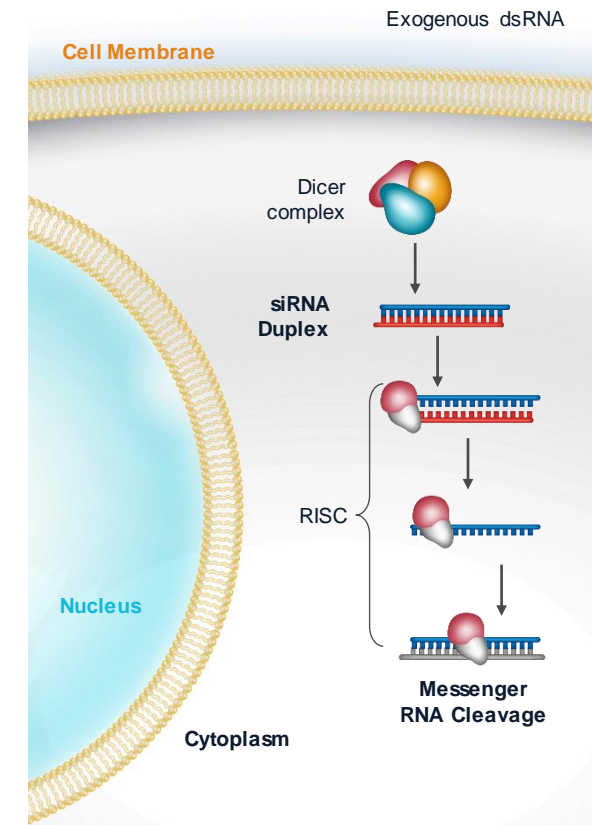


Cytoplasmic localization



**FORCE** delivers **ASO** payload for nuclear targets, **siRNA** payload for cytoplasmic targets

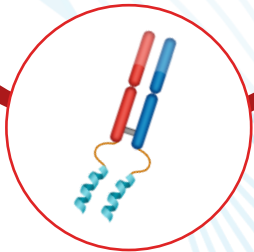
## siRNA acts in the cytoplasm



Double-Stranded Antisense (siRNA)

# FORCE Platform Designed to Deliver Significant Advantages

**Stop or Reverse  
Disease  
Progression**



- ✓ **Targeted Muscle Delivery**  
Leverages TfR1 expression on skeletal, cardiac and smooth muscle
- ✓ **Targeted Genetic Basis of Disease**  
Rationally select payloads to match target biology
- ✓ **Redosable Administration**  
Potential for individualized patient titration and longer-term efficacy
- ✓ **Enhanced Tolerability**  
Targeted delivery limits systemic drug exposure
- ✓ **Extended Durability**  
Potential for prolonged disease-modifying effects, enabling less frequent dosing
- ✓ **Reduced Development and Manufacturing Costs**  
A single Fab and linker utilized across all programs

# Advancing Robust Portfolio Focused on Muscle Diseases

DISEASE	TARGET	DISCOVERY	PRECLINICAL	PHASE 1/2	ESTIMATED PATIENTS
Myotonic Dystrophy Type 1 (DM1)	DMPK	DYNE-101			US: >40,000 Europe: >74,000
Duchenne Muscular Dystrophy (DMD)	Exon 51	DYNE-251			US: ~12,000-15,000 Europe: ~25,000
	Exon 53				
	Exon 45				
	Exon 44				
	Other Exons				
Facioscapulohumeral Muscular Dystrophy (FSHD)	DUX4	DYNE-302			US: ~16,000-38,000 Europe: ~35,000

## Pipeline Expansion Opportunities

Rare Skeletal  
CNS  
Cardiac  
Metabolic



# Achieving the Promise of FORCE to Deliver for Patients



## Potential first-in-class DM1 therapy with differentiated efficacy and safety profile

- ✓ Dose-dependent muscle delivery and compelling splicing correction consistent across patients
- ✓ Meaningful improvements in multiple clinical endpoints, including myotonia, muscle strength, timed functional assessments and patient reported outcomes
- ✓ Early indication of durable effect beyond monthly dosing supports exploration of Q8W dosing
- ✓ Deepening of response with longer time on therapy
- ✓ Favorable safety profile to date<sup>1</sup>; 6.8 mg/kg Q8W cohort fully enrolled



## Potential best-in-class DMD exon skipping franchise with differentiated efficacy and safety profile

- ✓ Dose-dependent increase in muscle delivery and dystrophin expression
  - 3.7% unadjusted and 8.7% muscle content adjusted dystrophin in 20 mg/kg Q4W cohort at 6 months
  - Improvements in multiple functional outcomes, including NSAA and SV95C, in multiple cohorts<sup>2</sup>
- ✓ Favorable safety profile to date<sup>3</sup>; enrolling 20 mg/kg Q4W registrational cohort

**Pursuing Expedited Approvals, including Accelerated Approval in the U.S., for Both Programs**

# Developing Transformative Therapies for People Living with DM1



## Overview

- Mutation in the *DMPK* gene
- Onset at any point, depending on DM1 phenotype
- Life expectancy of 45 - 60 years



## Clinical Presentation

- Myotonia
- Muscle weakness
- Cardiac arrhythmia
- Pulmonary abnormalities
- CNS manifestations



## Population

- >40,000 (US)
- >74,000 (Europe)



**NO**  
approved  
therapies

## OUR APPROACH

# Disease-Modifying Nuclear *DMPK* Knockdown

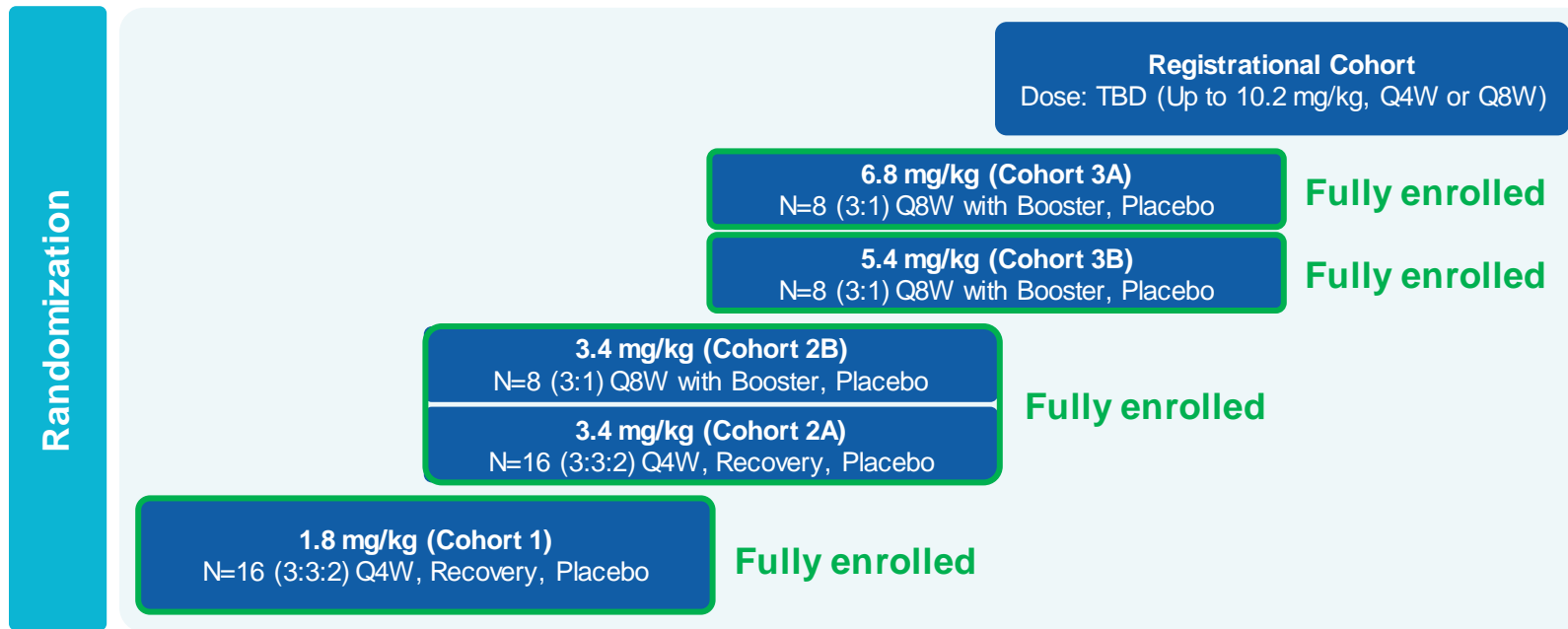
Targeting toxic gain of function *DMPK* RNA to potentially **stop or reverse** disease progression

# Phase 1/2 Clinical Trial to Evaluate DYNE-101 in Patients with DM1



Population	Primary Endpoints	Additional Endpoints	Stages of ACHIEVE
<ul style="list-style-type: none"><li>• Adult patients living with DM1</li><li>• Ages 18 to 49 years</li></ul>	<ul style="list-style-type: none"><li>• Safety and tolerability</li></ul>	<ul style="list-style-type: none"><li>• Pharmacokinetics</li><li>• Change from baseline of:<ul style="list-style-type: none"><li>– Splicing</li><li>– <i>DMPK</i> RNA expression</li><li>– Multiple assessments of muscle strength and function</li><li>– Patient-reported outcomes, including DM1-ACTIV<sup>c</sup> and MDHI</li></ul></li></ul>	<ul style="list-style-type: none"><li>• Multiple Ascending Dose (MAD): 24 weeks</li><li>• Open-Label Extension (OLE): 24 weeks</li><li>• Long-Term Extension (LTE): 96 weeks</li></ul>

Global, Randomized, Placebo-Controlled Stage Evaluating Once Monthly or Less Frequent Administration of DYNE-101 in Adult Patients Living with DM1

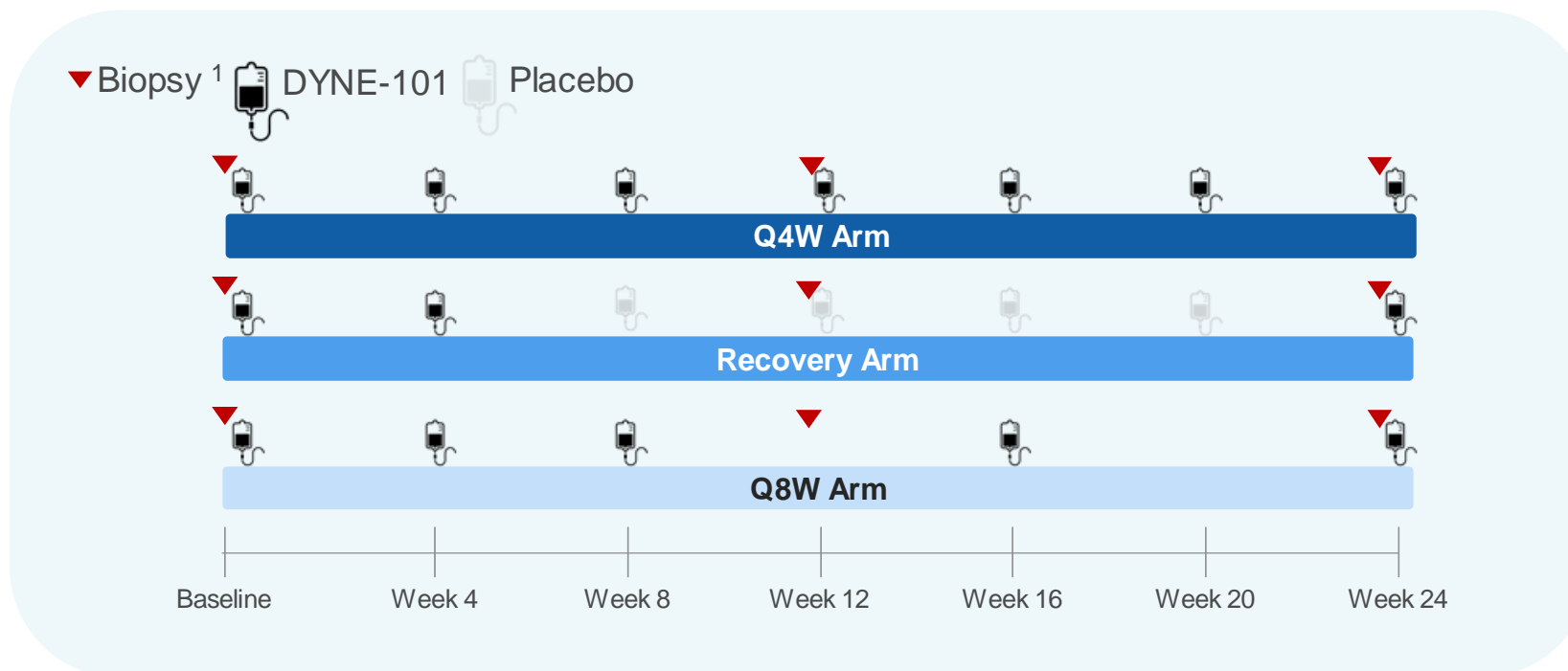


## MAD Study Details

- IV administration of DYNE-101 or placebo every 4 weeks or every 8 weeks
- Muscle biopsies: Baseline, 12 weeks, 24 weeks
- Patients in MAD study escalated to highest tolerable dose in OLE and LTE

Global Strategy & Adaptive Trial Design To Enable Rapid Achievement of Potentially Registrational Clinical Data

# Dosing Schedules for Treatment Arms



# ACHIEVE Baseline Participant Characteristics

Mean(SD) or n(%)	1.8 mg/kg Q4W (N=16) <sup>1</sup>	3.4 mg/kg Q4W (N=16) <sup>1</sup>	5.4 mg/kg Q8W (N=8) <sup>2</sup>
Age (years)	34.6 (10.4)	34.3 (7.6)	39.6 (7.0)
Female n(%)	7 (43.8%)	3 (18.8%)	5 (62.5%)
BMI (kg/m <sup>2</sup> )	22.4 (5.3)	23.8 (3.8)	21.7 (2.7)
CASI	0.62 (0.26)	0.67 (0.20)	0.79 (0.14)
CTG Repeats	375 (217)	527 (241)	586 (294)
vHOT (sec) (middle finger)	11.2 (4.3)	8.0 (5.7)	10.1 (6.2)
QMT Total (% predicted)	49.6 (10.9)	47.8 (10.6)	45.8 (16.1)
10M-RWT (sec)	3.5 (0.8)	3.6 (0.7)	4.7 (2.1)
5 Times Sit to Stand (sec)	9.33 (2.02)	10.05 (3.03)	12.28 (5.96)
DM1-ACTIV <sup>c</sup> Total	43 (7)	42 (7)	44 (6)
MDHI Total	25 (20)	25 (20)	16 (9)

# DYNE-101 Safety Profile Is Favorable to Date

## Summary of Treatment Emergent Adverse Events (TEAEs)<sup>1</sup>

TEAE Category	Participants with ≥1 TEAE – n (%)					Overall (N=56)
	1.8 mg/kg Q4W+Rec. N=16	3.4 mg/kg Q4W+Rec. N=16	3.4 mg/kg Q8W N=8	5.4 mg/kg Q8W N=8	6.8 mg/kg Q8W N=8	
Any TEAE	16 (100%)	16 (100%)	8 (100%)	8 (100%)	7 (88%)	55 (98%)
Any related TEAE	8 (50%)	8 (50%)	2 (25%)	3 (38%)	5 (63%)	26 (46%)
Any serious TEAE	4 (25%)	0	1 (13%)	0	0	5 (9%)
Any serious related TEAE	0	0	0	0	0	0
Any TEAE leading to withdrawal	0	0	0	0	0	0
Any TEAE leading to death	0	0	0	0	0	0

## Most TEAEs Were Mild or Moderate in Intensity

- 6 serious TEAEs unrelated to study drug
  - Atrioventricular block first degree (1)<sup>2</sup>
  - Pneumonia (2 events in same participant)
  - Pulmonary embolism (1)<sup>3</sup>
  - Hyponatremia (1)
  - Influenza (1)
- Most common TEAEs (≥20% participant incidence)<sup>4</sup>
  - Nasopharyngitis (32%)
  - Procedural pain (29%)
  - Infusion-related reaction (21%)

## Additional Safety Data

- Liver enzyme elevations have been observed in a minority of participants
  - No impact on liver function (bilirubin or coagulation)
  - Interpretation is complicated by underlying disease and elevated baseline values up to ~2.5x greater than the upper limit of normal
- No participants have demonstrated persistent related anemia or thrombocytopenia

~680 Doses Administered to Date Representing Over 55 Patient-Years of Follow-Up<sup>1</sup>

1. Data as of August 20, 2024; 2. Transient worsening of atrioventricular (AV) block in a participant with ongoing medical history of first-degree AV block; 3. Attributed to risk factors for pulmonary embolism; 4. All cohorts combined; preferred terms are reported

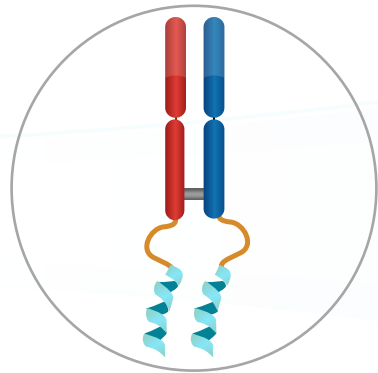
# DYNE-101 Designed to Address the Foundational Spliceopathy of DM1 to Enable Comprehensive Functional Improvement

Robust Delivery

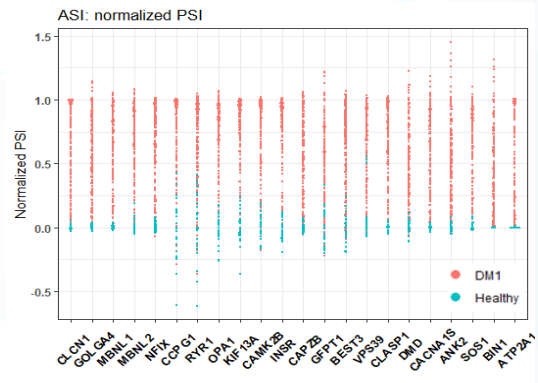
Validated Biomarker

Early Indicator of Functional Improvement

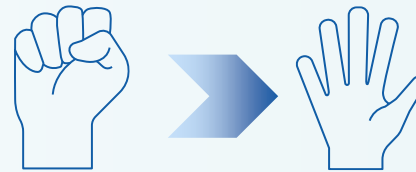
Broad Functional Improvement



FORCE Platform



Splicing



Myotonia

**Muscle Strength:**  
Quantitative Muscle Testing



**Functional Assessments:**  
10-Meter Walk / Run;  
5x Sit to Stand



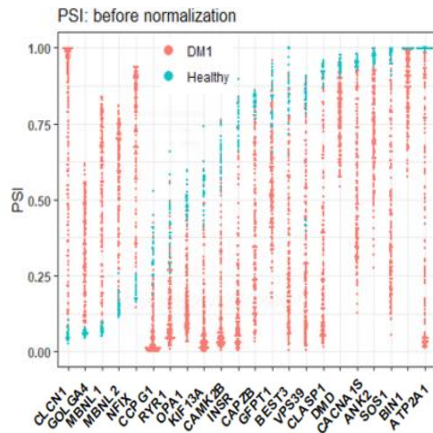
**Patient Reported Outcomes:**  
Myotonic Dystrophy Health  
Index (MDHI); DM1-ACTIV<sup>c</sup>





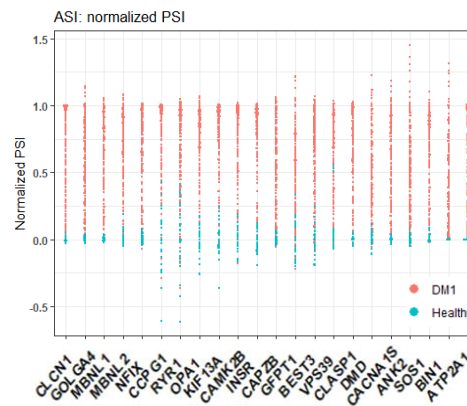
# DMCRN NHS Enabled Establishment of Composite Alternative Splicing Index (CASI) as Biomarker Correlating with Clinical Function in DM1

## PSI = Percent Spliced In



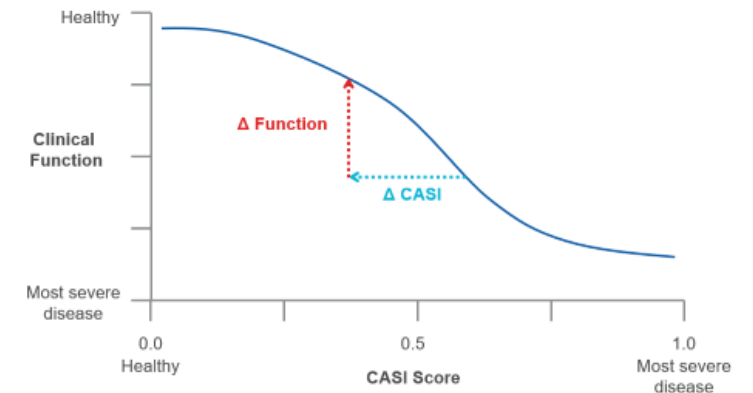
Targeted sequencing reads to calculate Percent Spliced In (PSI) of specific exons

## ASI: Alternative Splicing Index



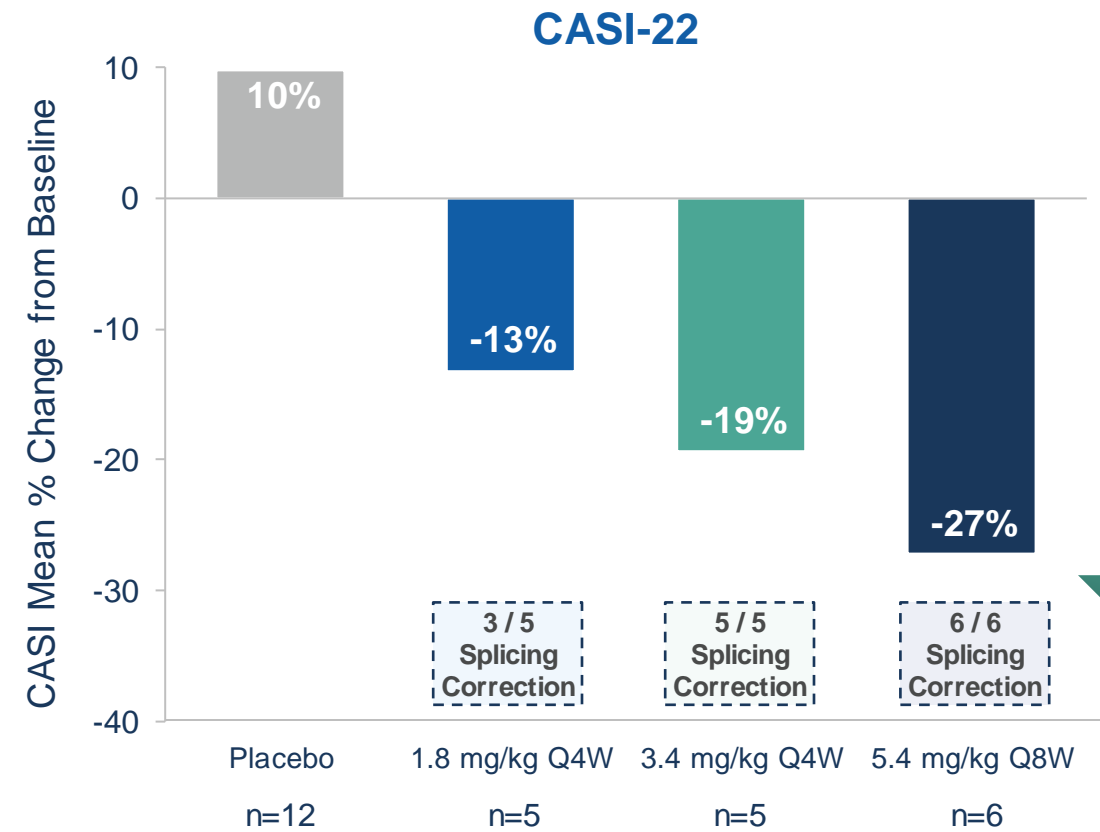
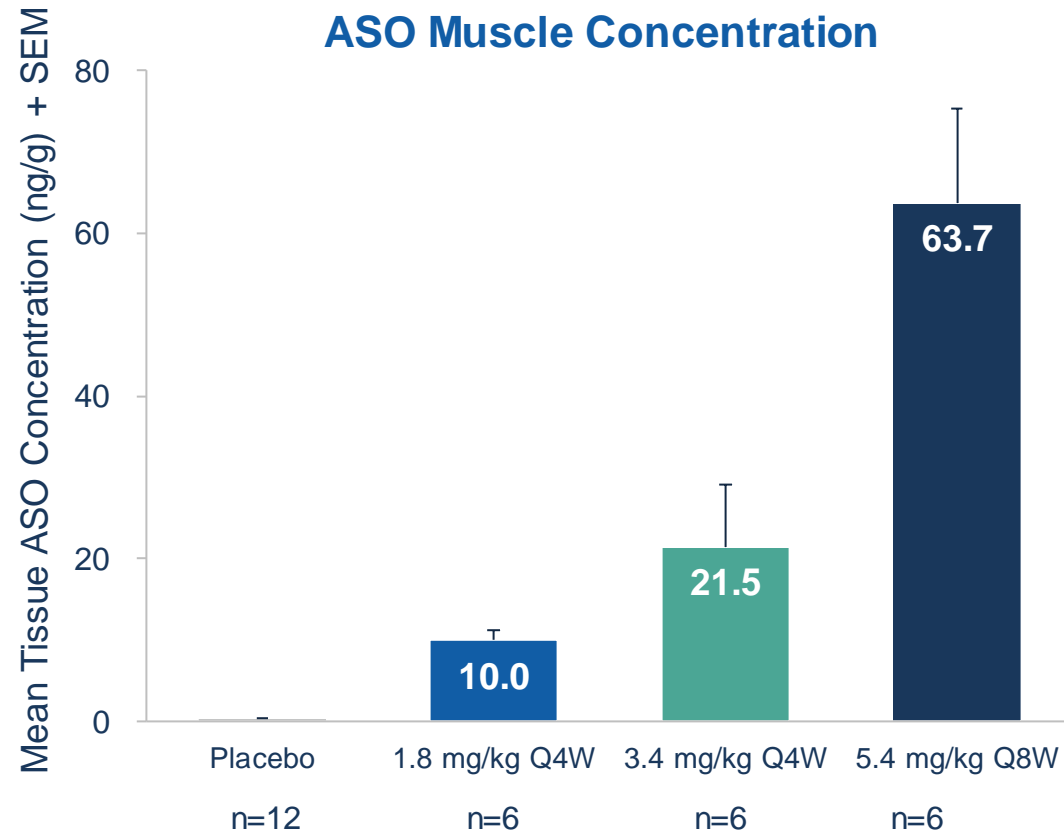
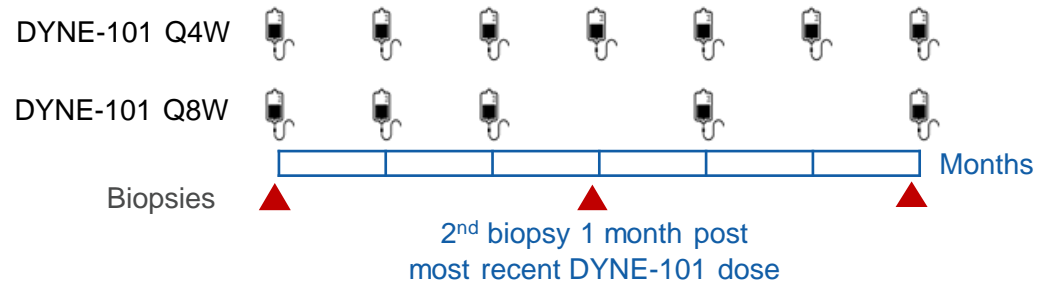
Normalize to reference PSI from healthy controls and patients from DM1 natural history studies <sup>1</sup>

## CASI: Composite Alternative Splicing Index



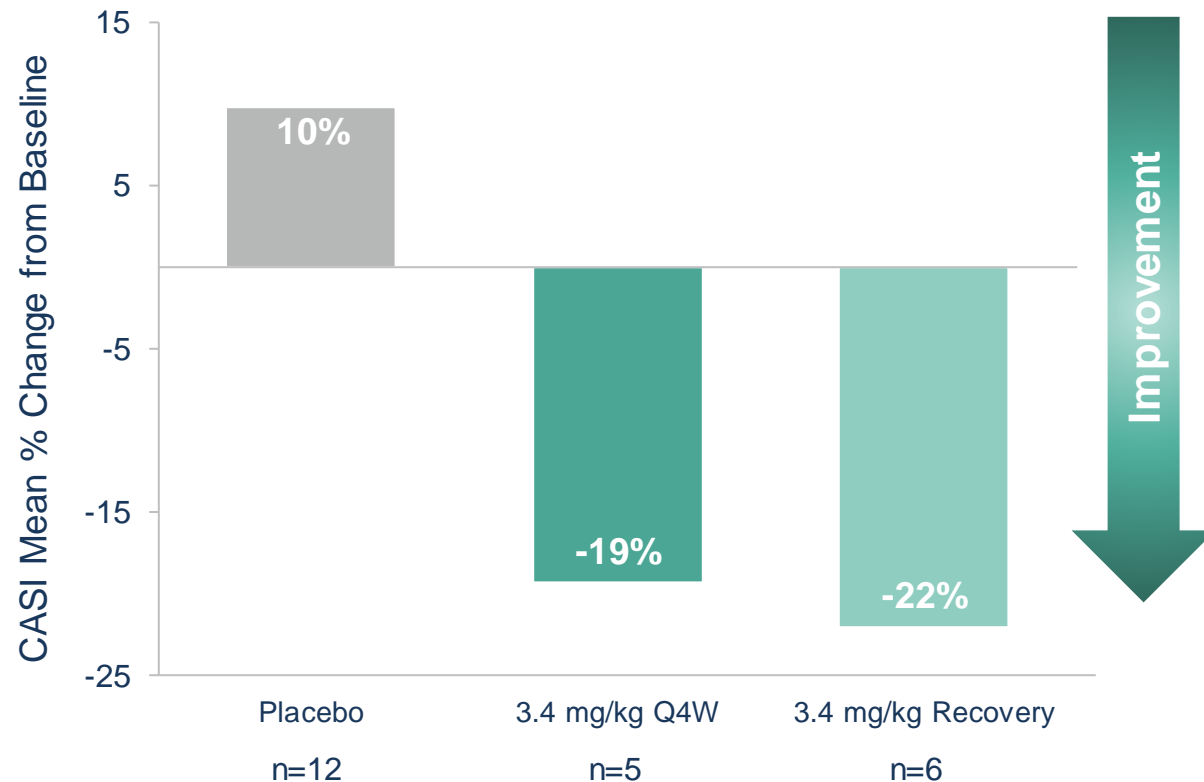
Compute the mean of normalized PSI from a panel of 22 genes. 0 representing median score of healthy subjects; 1 representing 95th percentile severity of DM1 patients

# Monthly Dosing of DYNE-101 Demonstrated Dose-Dependent Delivery and Consistent Splicing Correction at 3 Months

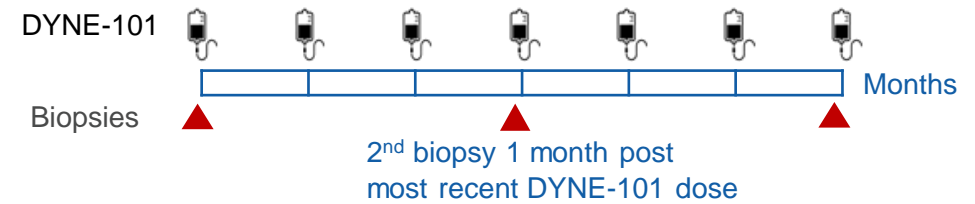


# Recovery Data Supports Less Frequent Dosing Regimen

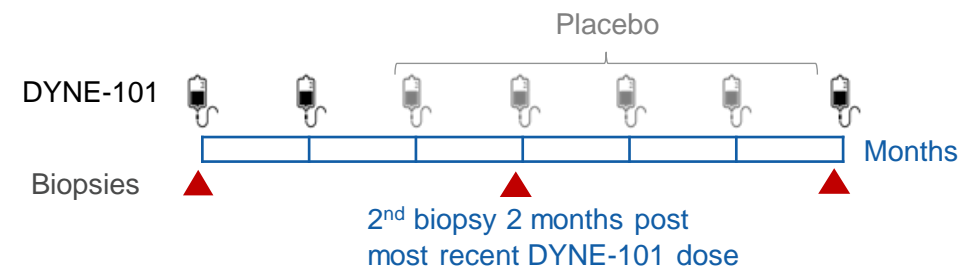
## CASI-22 at 3 Months



## Q4W Active Arm



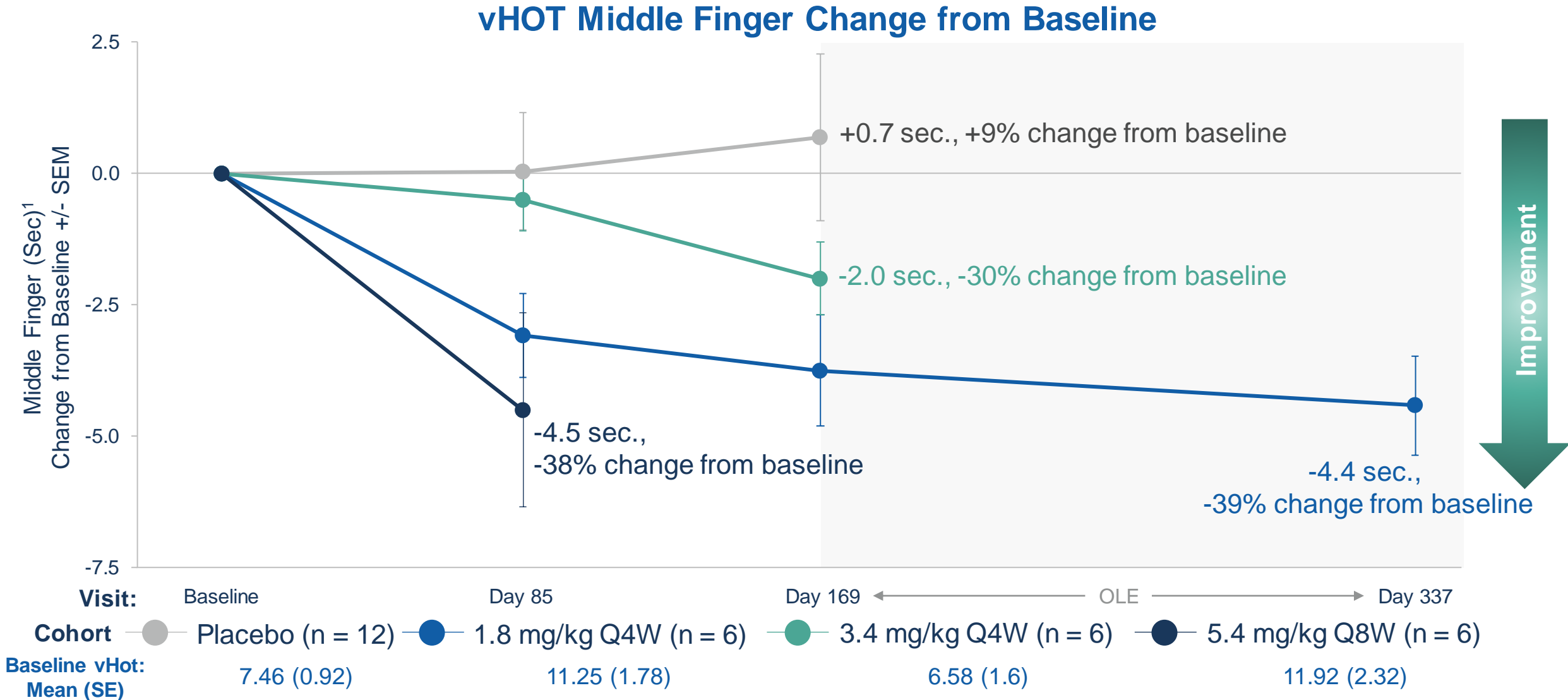
## Q4W Recovery Arm



Robust Splicing Correction in Both Q4W and Recovery Arm with 3.4 mg/kg Dose

# Continued Improvement in Functional Myotonia at 6 and 12 Months

1.8 mg/kg Q4W myotonia benefit increased from 3.1 seconds at 3 Months to 4.4 seconds at 12 Months

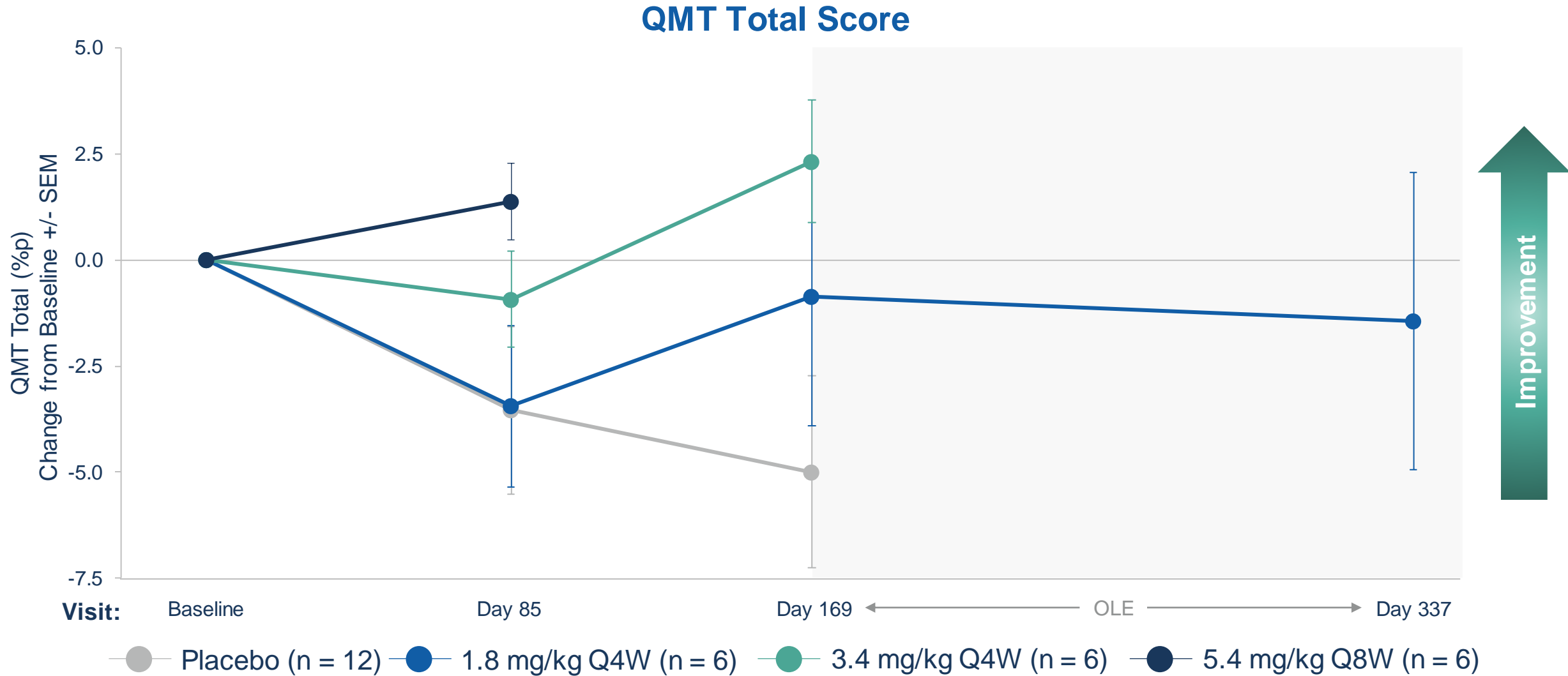


1. Middle Finger (sec) is the average of all myotonia trials for an individual participant in ACHIEVE.

Note: Placebo group includes 12 participants at Day 85 and 8 participants at Day 169. Mean percent change from baseline for placebo group are based on baseline values from 12 patients.

# DYNE-101 Demonstrated Improvement in Muscle Strength

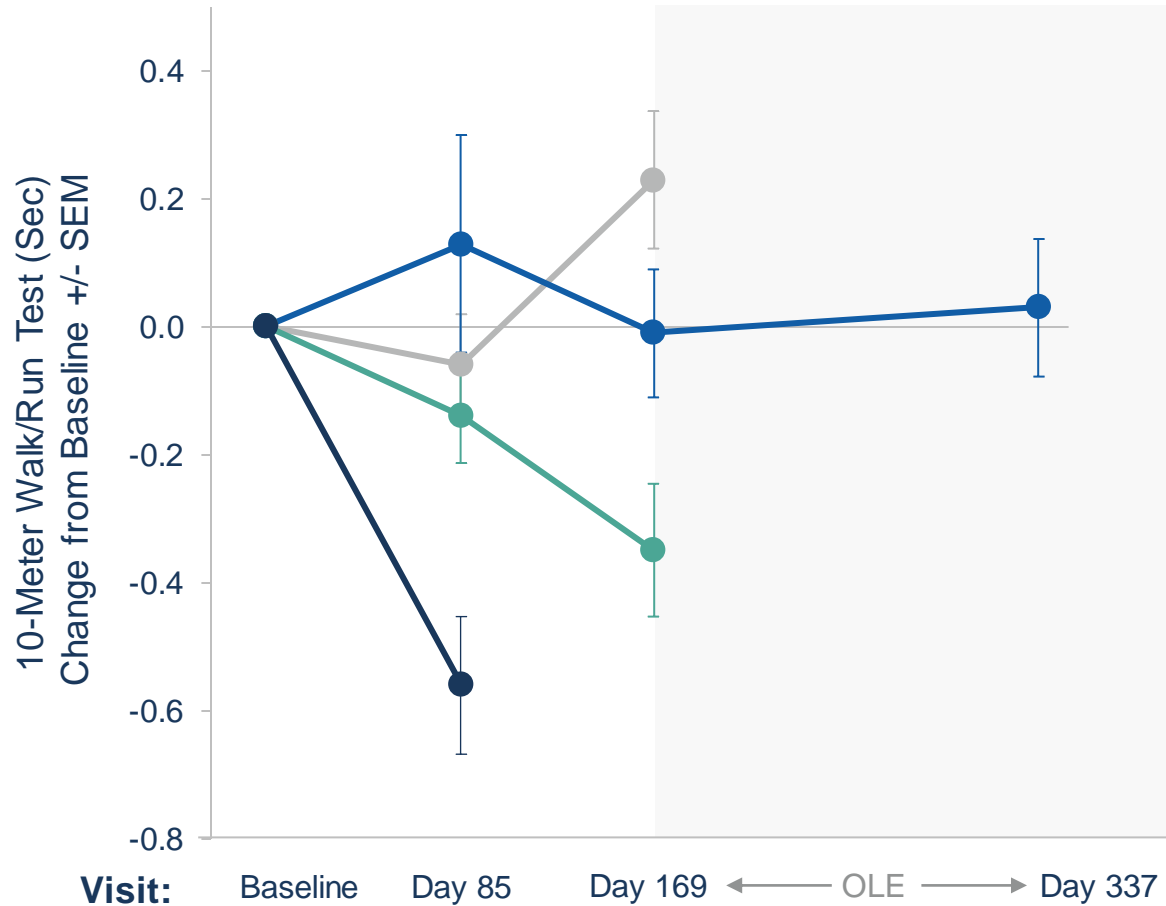
Measured by Quantitative Muscle Testing (QMT)



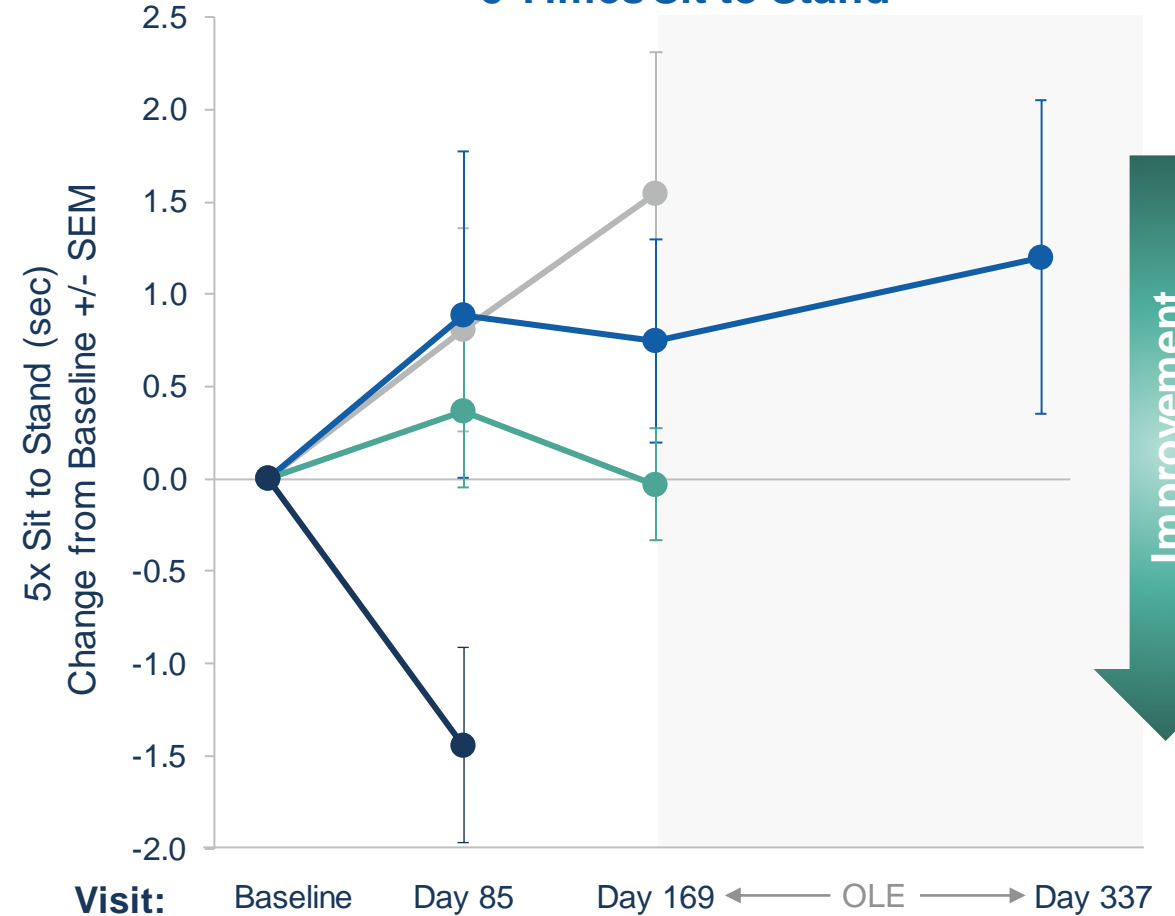
Note: Placebo group includes 12 participants at Day 85 and 8 participants at Day 169.

# DYNE-101 Demonstrated Early and Sustained Potential Benefit Across Multiple Timed Function Tests

## 10-Meter Walk/Run Test

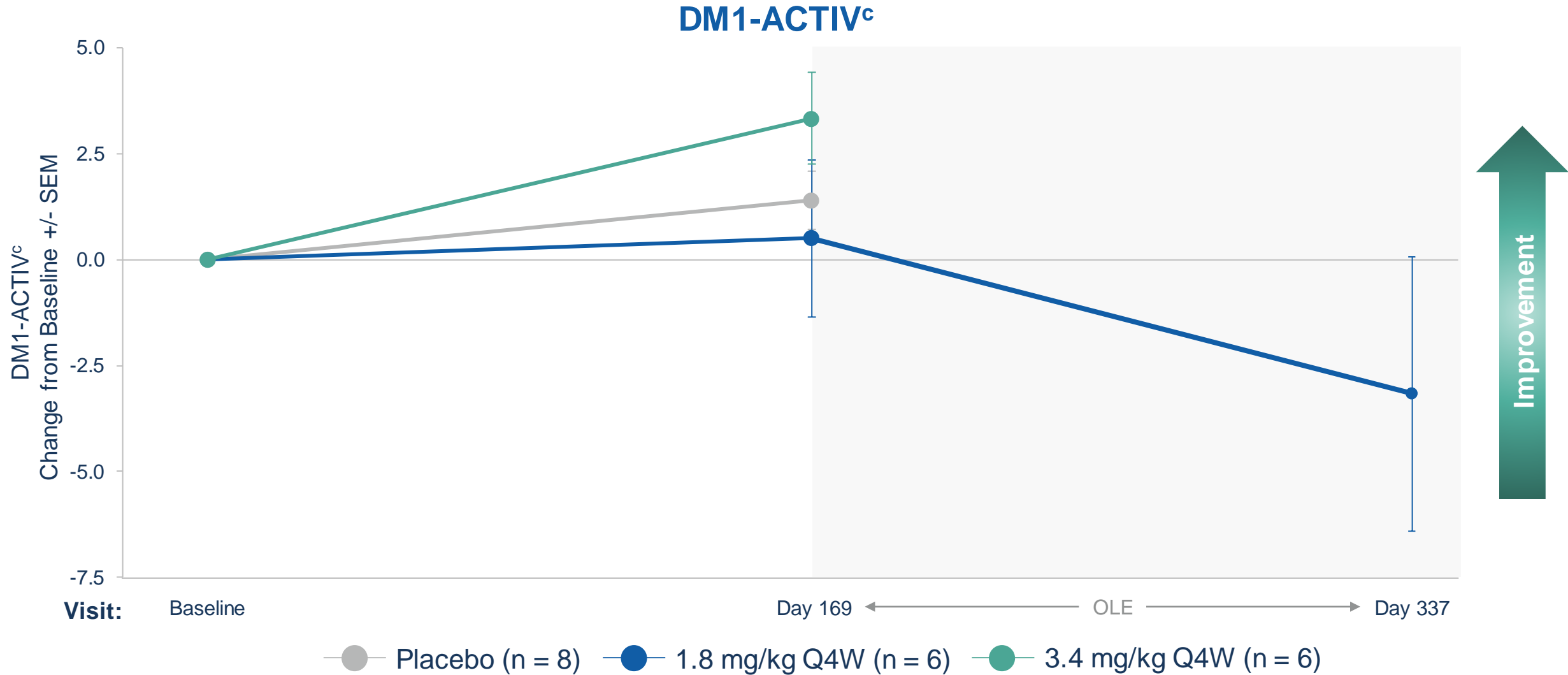


## 5 Times Sit to Stand



● Placebo (n = 12) ● 1.8 mg/kg Q4W (n = 6) ● 3.4 mg/kg Q4W (n = 6) ● 5.4 mg/kg Q8W (n = 6)

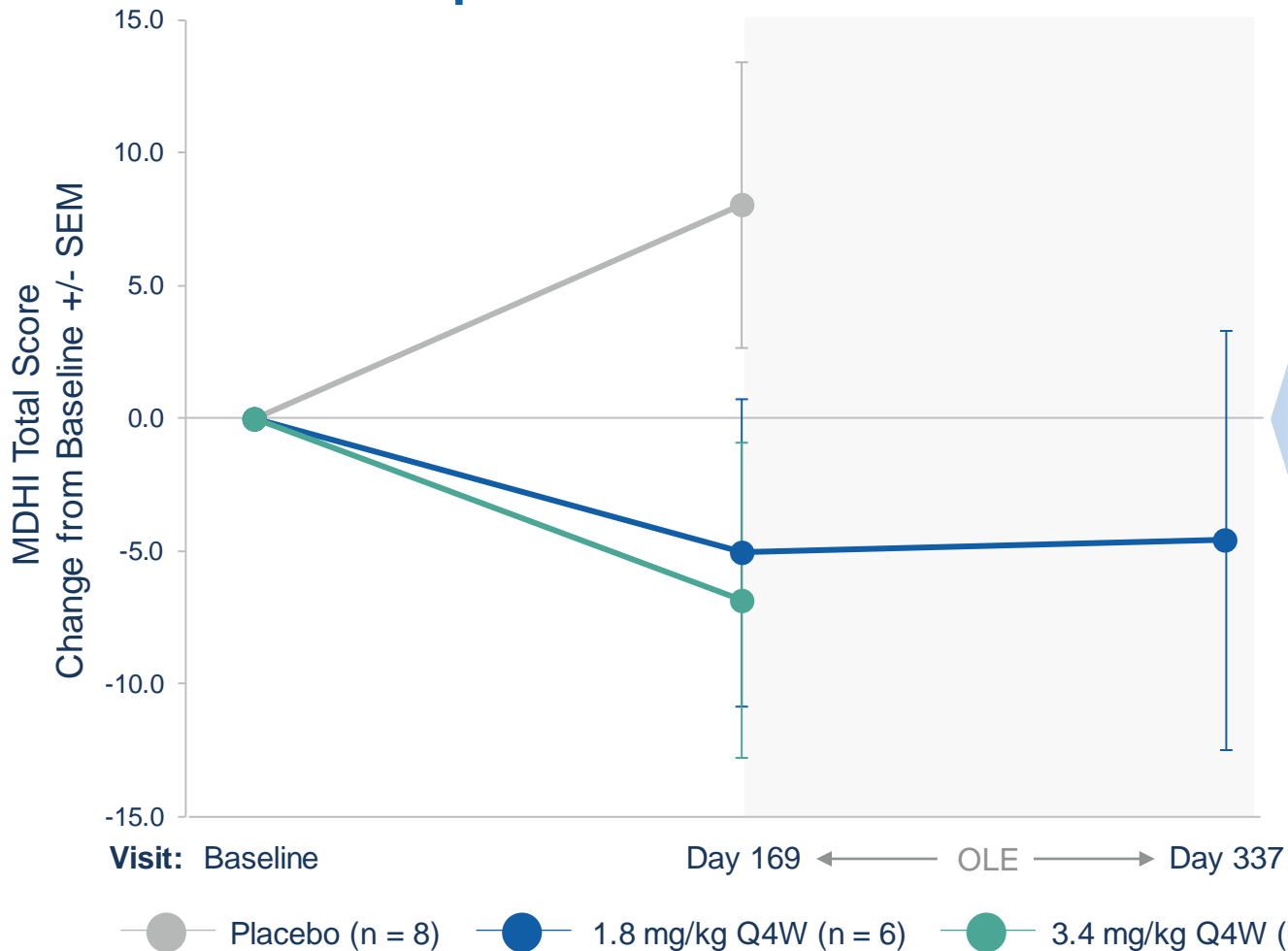
# DYNE-101 Showed Improvement from Baseline in Activities of Daily Living Measured by DM1-ACTIV<sup>c</sup> Patient Reported Outcome



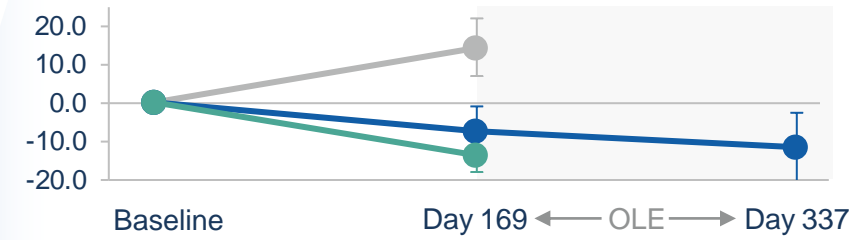
# DYNE-101 Demonstrated Clinical Benefit Based on Well-Validated PRO

Showed Benefit in 17 out of 17 MDHI Subscales

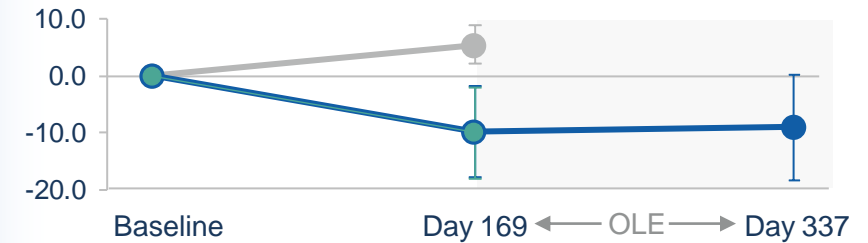
## Improved MDHI Total Score



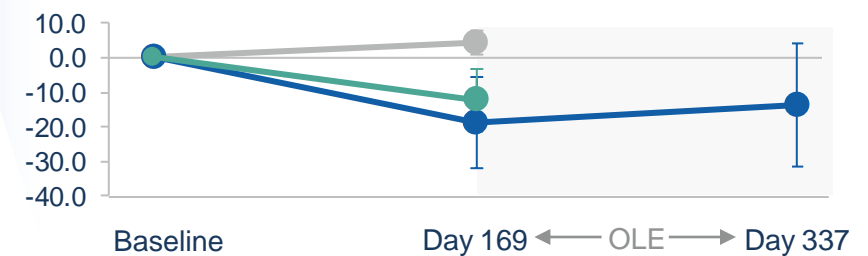
## Upper Extremity Function



## Gastrointestinal Issues



## Fatigue



MDHI Total and Subscale Improvement



# ACHIEVE Data Demonstrated DYNE-101 Best-in-Class Potential



Dose-dependent muscle delivery and compelling splicing correction consistent across patients



Meaningful improvement in multiple clinical endpoints, including myotonia, muscle strength, timed functional assessments, and patient reported outcomes



Early indication of durable effect beyond monthly dosing supports exploration of Q8W dosing



Deepening of response with longer time on therapy



Favorable safety profile to date<sup>1</sup>; 6.8 mg/kg Q8W cohort fully enrolled

**Pursuing expedited approval based on regulatory interactions and strength of results**  
**Additional data from ACHIEVE expected in early January 2025**

# Building a Global DMD Franchise of Transformative Therapies



## Overview

- Mutation in the *DMD* gene that encodes for dystrophin
- Onset in first few years of life
- Life expectancy ~30 years



## Clinical Presentation

- Muscle weakness
- Progressive loss of function
- Loss of ambulation
- Respiratory/cardiac failure



## Population

- ~12,000 - 15,000 (US)
- ~ 25,000 (Europe)



## OUR APPROACH

### Potential Best-in-class Targeted Exon Skipping

Increase dystrophin expression and enable less frequent dosing to potentially **stop or reverse disease progression**

Current Approved Exon 51 Therapies Only Increased Dystrophin Production

<1%

# Phase 1/2 Clinical Trial to Evaluate DYNE-251 in Patients with DMD

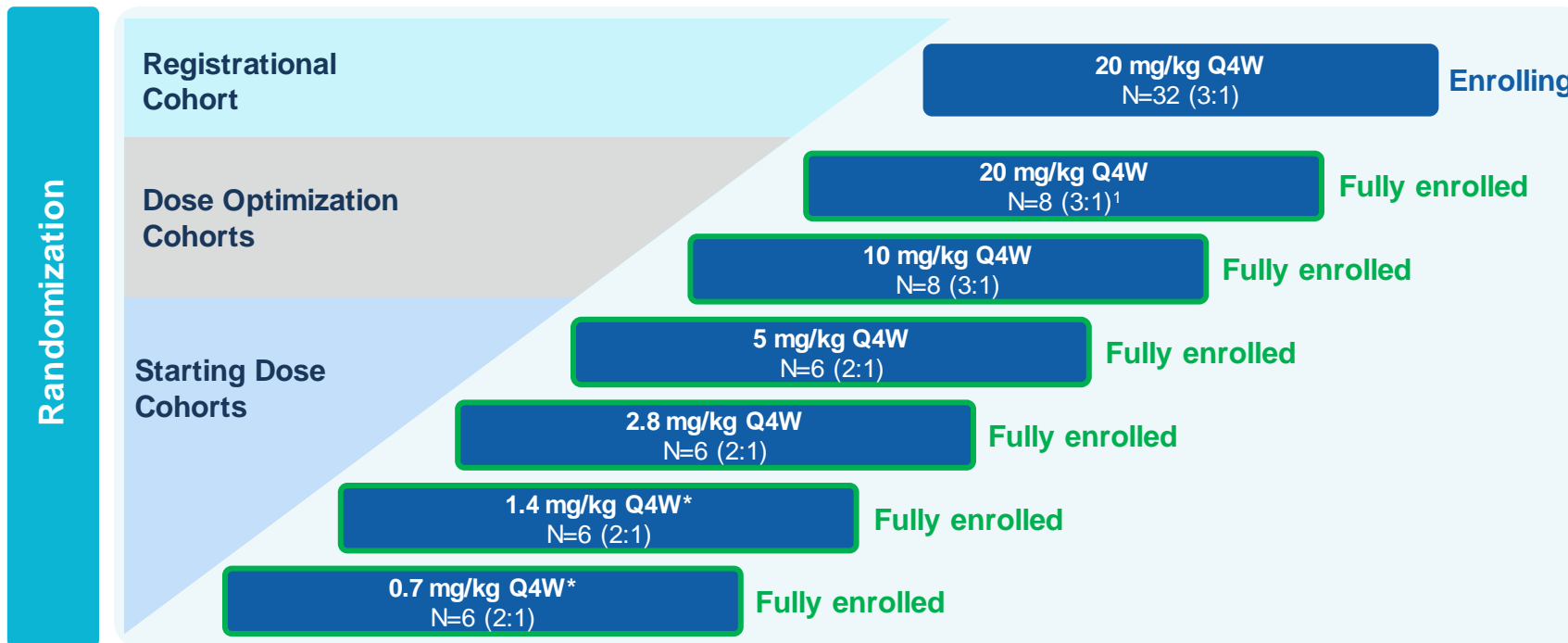


Population	Primary Endpoints	Additional Endpoints	Stages of DELIVER
<ul style="list-style-type: none"><li>• Male patients with DMD with mutations amenable to exon 51 skipping therapy</li><li>• Ages 4 to 16 years</li><li>• Ambulant and non-ambulant</li></ul>	<ul style="list-style-type: none"><li>• Safety and tolerability</li><li>• Change from baseline in dystrophin protein levels by Western Blot</li></ul>	<ul style="list-style-type: none"><li>• Pharmacokinetics</li><li>• Change from baseline of:<ul style="list-style-type: none"><li>– Exon 51 skipping levels</li><li>– Muscle tissue PDPF</li><li>– Multiple assessments of muscle function, including NSAA score, SV95C and certain timed functional tests</li></ul></li></ul>	<ul style="list-style-type: none"><li>• Multiple Ascending Dose (MAD): 24 weeks</li><li>• Open-Label Extension (OLE): 24 weeks</li><li>• Long-Term Extension (LTE): 96 weeks</li></ul>

# DELIVER Trial Design



Global, Randomized, Placebo-Controlled Stage Evaluating Administration of DYNE-251 in Ambulant and Non-Ambulant Male DMD Patients with Mutations Amenable to Exon 51 Skipping Therapy



## MAD Study Details

- IV administration of DYNE-251 or placebo every 4 weeks or every 8 weeks
- Muscle biopsies: Baseline and 24 weeks<sup>2</sup>
- Patients in MAD study escalated to highest tolerable dose in OLE and LTE

**Global Trial Designed to be Registrational and to Enable Rapid Achievement of Predicted Pharmacologically Active Dose Levels**

Doses provided refer to PMO component of DYNE-251. Cohorts randomized to active arm or placebo.

1. All participants in DELIVER starting dose and dose optimization cohorts are currently receiving 20 mg/kg dose, including 32 participants dose escalated following the placebo-controlled period from starting doses lower than 20 mg/kg and 14 participants initiated at 40 mg/kg who are now being dosed at 20 mg/kg following evaluation of the safety profile at 40 mg/kg. 2. Muscle biopsies taken at baseline and 24 weeks in 2.8 mg/kg Q4W cohort to 20 mg/kg Q4W cohort; biopsies not taken in 0.7 mg/kg and 1.4 mg/kg cohorts.

# DELIVER Baseline Participant Characteristics: By Cohort

mean (SD) or n(%)	0.7 mg/kg (N=6)	1.4 mg/kg (N=6)	2.8 mg/kg (N=6)	5 mg/kg (N=6)	10 mg/kg (N=8)	20 mg/kg (N=8)
Age (years)	10.8 (2.2)	8.0 (3.5)	10.7 (2.9)	8.3 (2.8)	6.6 (2.2)	8.1 (2.4)
BMI (kg/m <sup>2</sup> )	19.5 (3.4)	18.6 (2.2)	22.6 (6.3)	20.9 (1.6)	18.3 (3.2)	18.6 (5.1)
Age of Symptom Onset (years)	3.7 (1.8)	4.5 (2.1)	2.8 (1.8)	3.7 (3.1)	2.8 (1.6)	2.9 (2.0)
Corticosteroid dosing regimen (n (%)) <sup>1</sup>						
Daily	4 (66.7%)	4 (66.7%)	5 (83.3%)	6 (100.0%)	8 (100.0%)	8 (100.0%)
Other	2 (33.3%)	3 (50.0%)	2 (33.3%)	0	0	2 (25.0%)
Prior DMD Therapy (n (%))						
Eteplirsen	4 (66.7%)	2 (33.3%)	5 (83.3%)	1 (16.7%)	1 (12.5%)	0
Other	2 (33.3%)	1 (16.7%)	0	0	1 (12.5%)	2 (25.0%)
NSAA Total Score	22.2 (7.2)	22.8 (10.5)	20.3 (9.0)	21.0 (7.0)	25.3 (6.4)	15.6 (5.1)
10 Meter Run/Walk (sec)	6.1 (1.5)	6.3 (5.2)	6.9 (3.6)	5.1 (1.5)	4.6 (1.9)	7.7 (3.8)
Time Rise From Floor (sec)	8.5 (4.0)	3.1 (0.3)	6.9 (4.9)	5.0 (2.6)	6.3 (5.6)	5.1 (2.3)
Stride Velocity 95 <sup>th</sup> Percentile (m/sec)	N/A	N/A	N/A	N/A	1.9 (0.5)	1.4 (0.5)

# DYNE-251 Safety Profile Is Favorable to Date

## Summary of Treatment Emergent Adverse Events (TEAEs)<sup>1</sup>

TEAE Category	Participants with ≥1 TEAE – n (%)								Overall <sup>1</sup> N=54
	0.7mg/kg Q4W N=6	1.4 mg/kg Q4W N=6	2.8 mg/kg Q4W N=6	5 mg/kg Q4W N=6	10 mg/kg Q4W N=8	20 mg/kg Q4W N=8	40 mg/kg Q8W <sup>7</sup> N=8	40 mg/kg Q4W <sup>7</sup> N=6	
Any TEAE	6 (100%)	6 (100%)	4 (67%)	6 (100%)	7 (88%)	8 (100%)	6 (75%)	4 (67%)	47 (87%)
Any related TEAE	3 (50%)	3 (50%)	0	6 (100%)	3 (38%)	4 (50%)	1 (13%)	2 (33%)	22 (41%)
Any serious TEAE	0	0	1 (17%)	0	0	1 (13%)	2 (25%)	2 (33%)	6 (11%)
Any serious related TEAE	0	0	0	0	0	0	0	2 (33%)	2 (4%)
Any TEAE leading to withdrawal	0	0	0	0	0	0	0	0	0
Any TEAE leading to death	0	0	0	0	0	0	0	0	0

## Most TEAEs Were Mild or Moderate in Intensity

- 3 serious TEAEs potentially related to study drug in two participants
  - Acute kidney injury (1); thrombocytopenia (1)<sup>2</sup>
  - Pancytopenia (1)<sup>3</sup>
- 6 serious TEAEs unrelated to study drug
  - Dehydration due to gastroenteritis (1)
  - Femoral neck fracture (1); gastric volvulus (1)<sup>4</sup>
  - Tibia fracture (1)
  - Febrile convulsion (1); pyrexia (1)<sup>5</sup>
- Most common TEAEs (>20% participant incidence)<sup>6</sup>
  - Pyrexia (32%)
  - Nasopharyngitis, headache, vomiting (each 26%)
  - Fall (26%)
  - Infusion-related reaction (20%)

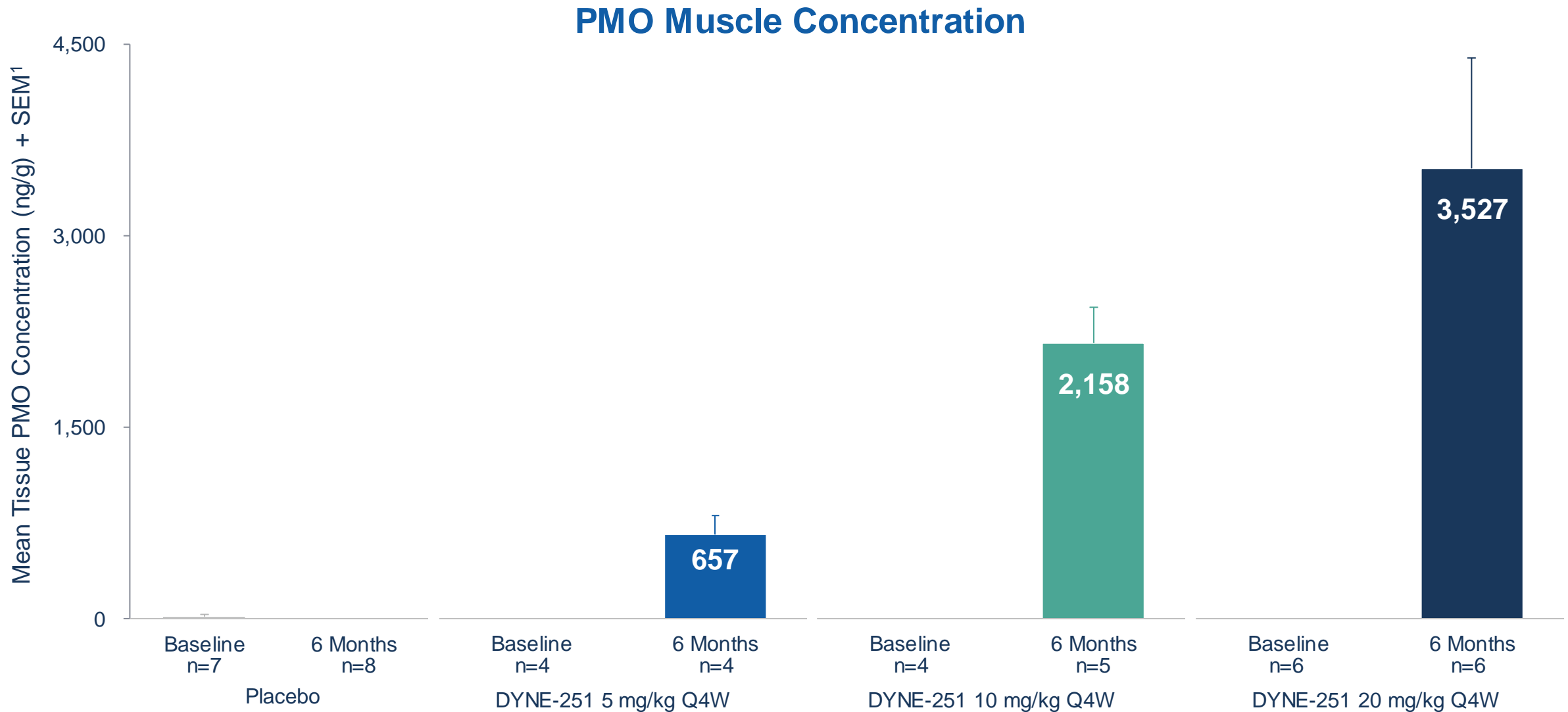
## Additional Safety Data

- Other than two participants with serious TEAEs in 40 mg/kg Q4W cohort:
  - No participants have demonstrated persistent related anemia or thrombocytopenia
  - No participants have demonstrated kidney injury
- No participants have demonstrated clinically meaningful changes in electrolytes, including magnesium

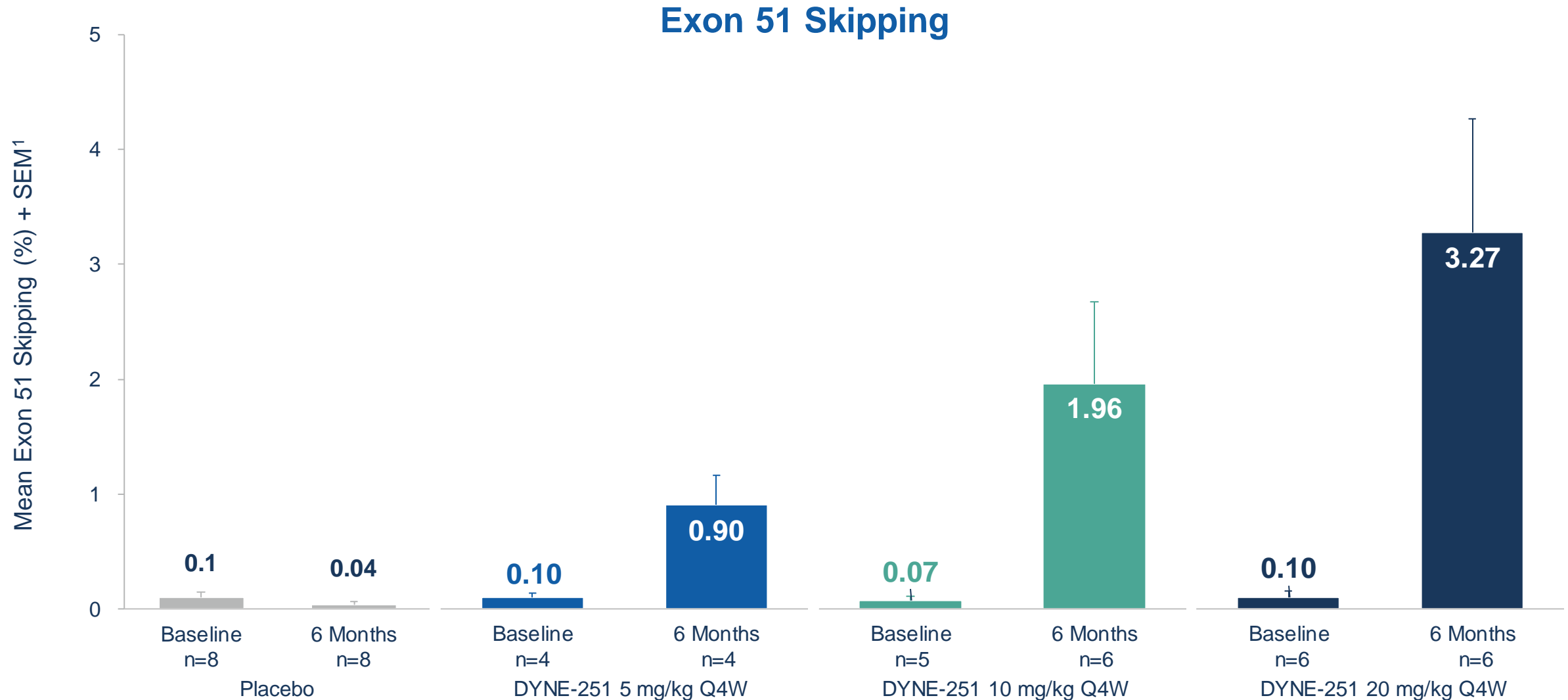
~675 Doses Administered to Date Representing Over 50 Patient-Years of Follow-Up<sup>1</sup>

1. Data as of August 21, 2024; 2. Events have same day of onset in a single participant in the context of fever, hemolysis, diarrhea and positive blood in stool; together, these events are potentially consistent with hemolytic uremic syndrome (HUS) with a potential infectious etiology. 3. Participant had a history of hemolytic anemia of unidentified etiology prior to enrolling in DELIVER. Presented with fever and tonsillitis; all symptoms resolved without therapeutic intervention. 4. Events occurred in same participant at different times; 5. Events occurred in same participant at different times; 6. All cohorts combined; preferred terms are reported; 7. 14 participants initiated at 40 mg/kg who are now being dosed at 20 mg/kg following evaluation of the safety profile at 40 mg/kg.

# DYNE-251 Drove Dose Dependent Delivery of PMO to Muscle



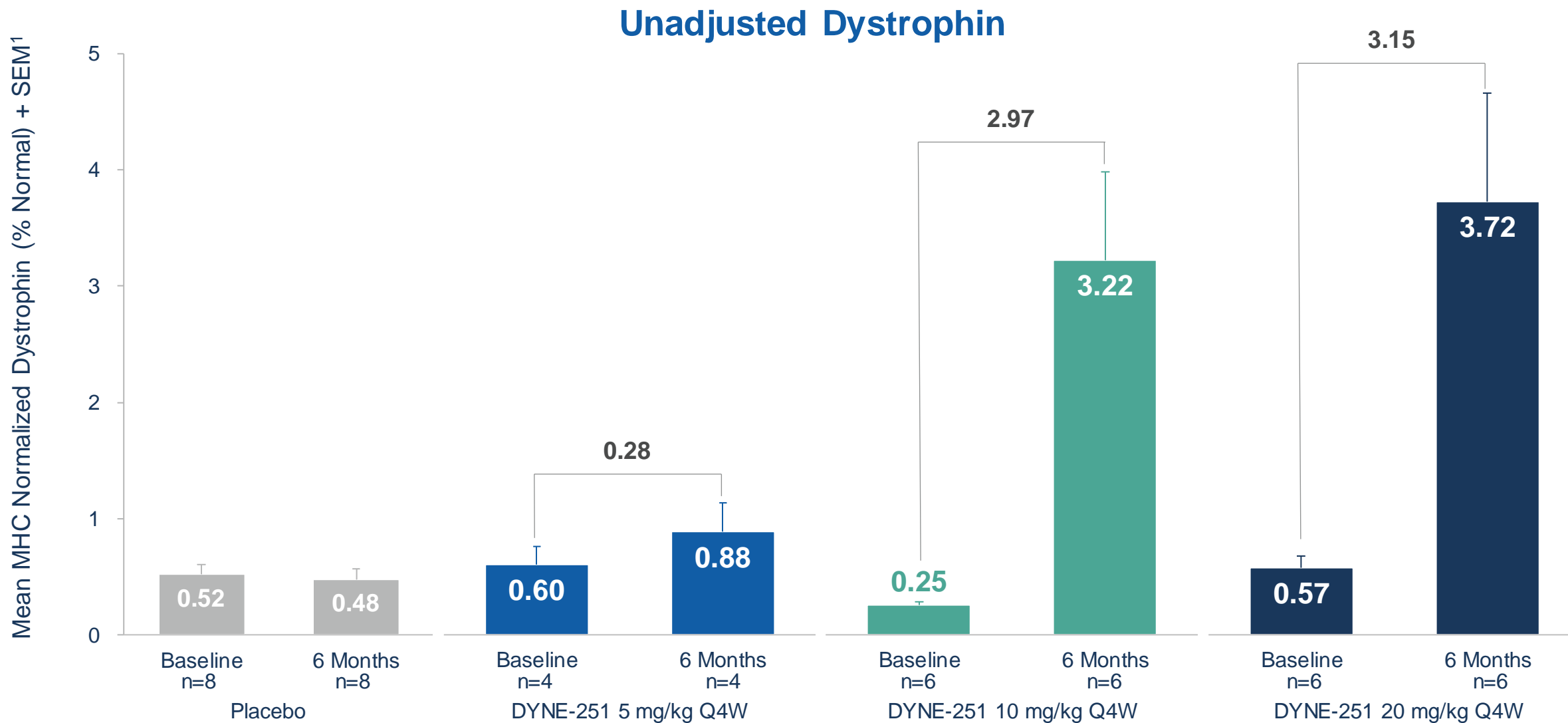
# DYNE-251 Demonstrated Dose-Dependent Exon Skipping



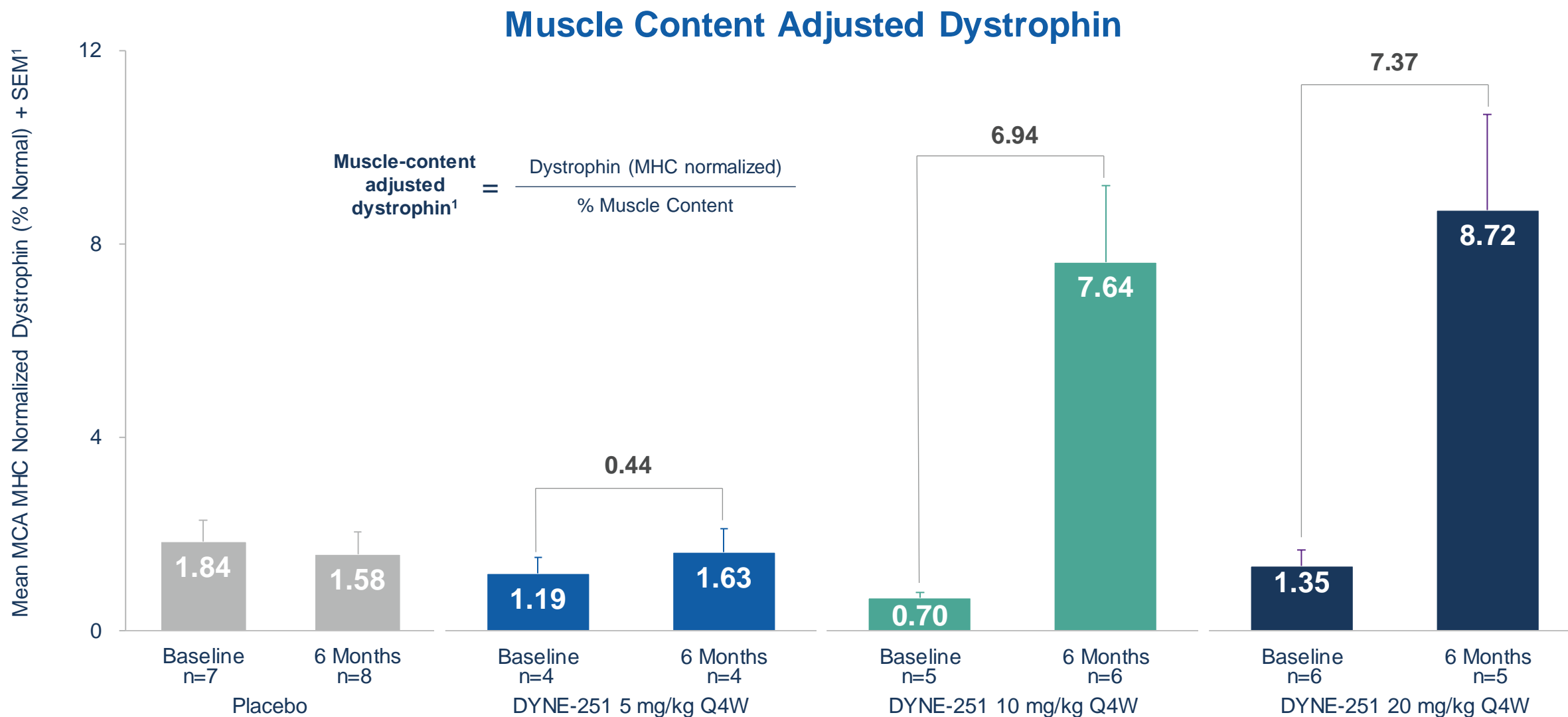


# Higher Doses of DYNE-251 Continued to Drive Robust Dystrophin Expression

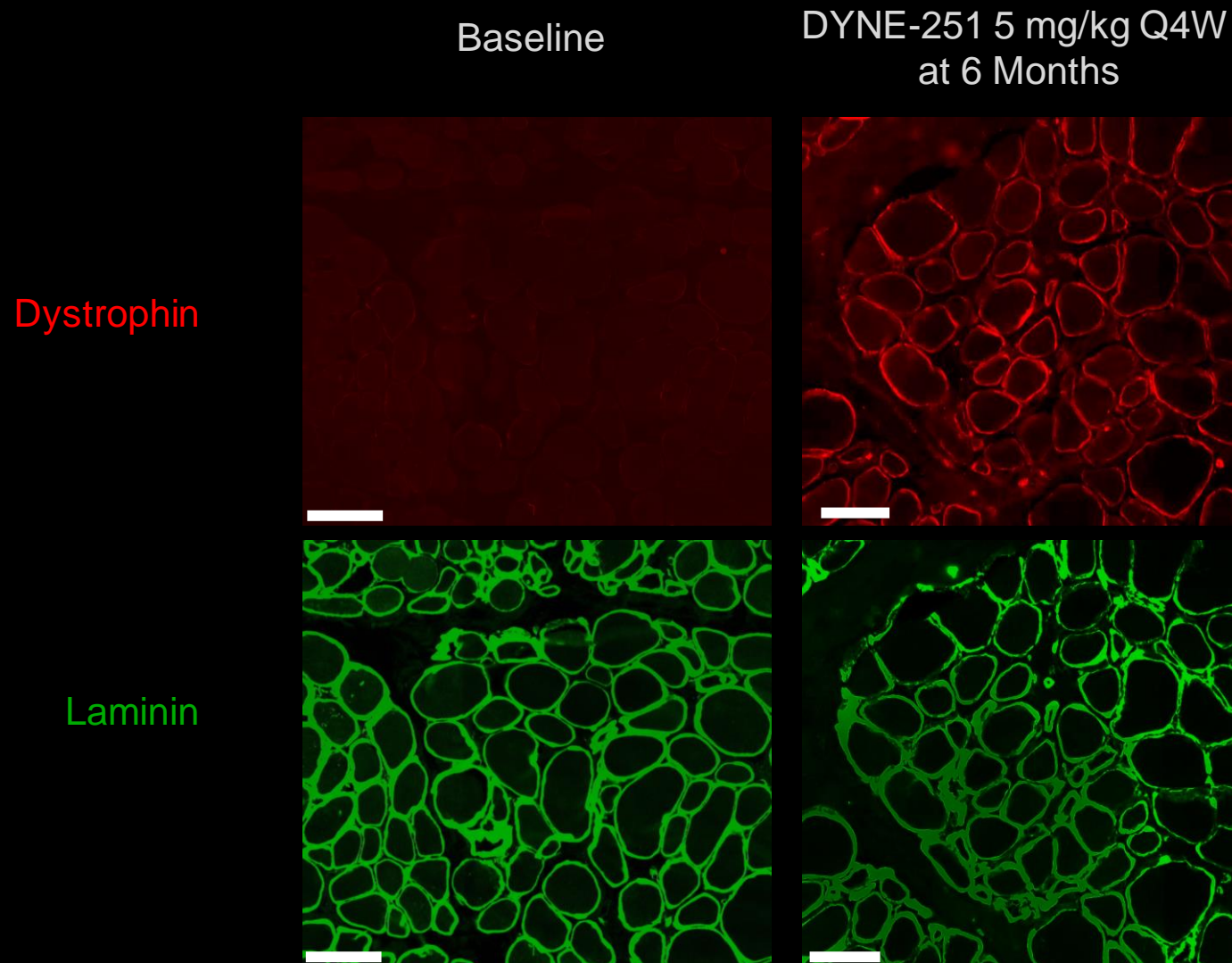
## DYNE-251 Showed 3.7% Unadjusted Dystrophin at 6 Months



# DYNE-251 Positioned as a Potentially Best-in-Class Next Generation Exon Skipper, Achieving 8.7% Muscle Content Adjusted Dystrophin at 6 Months

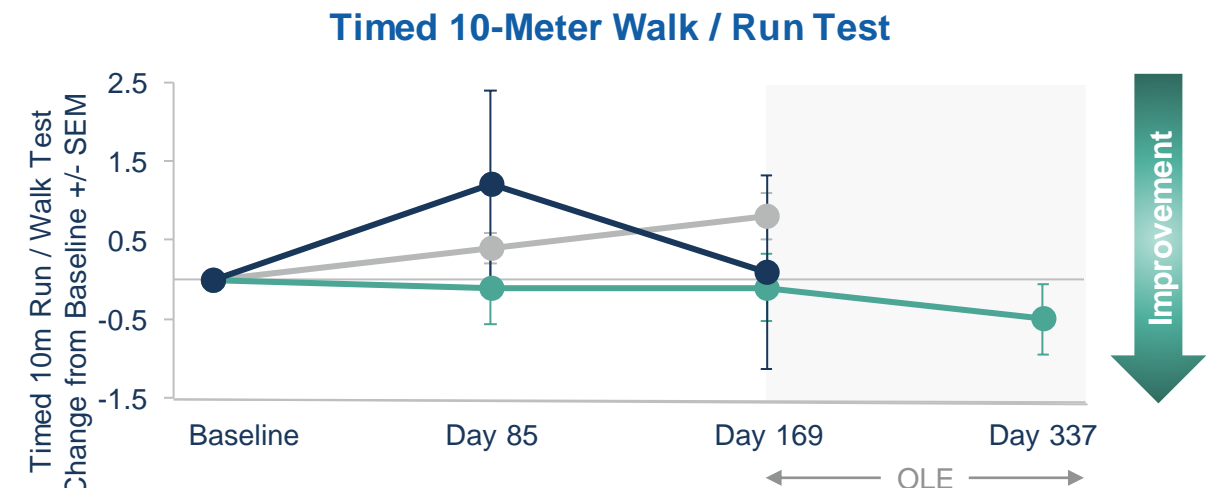
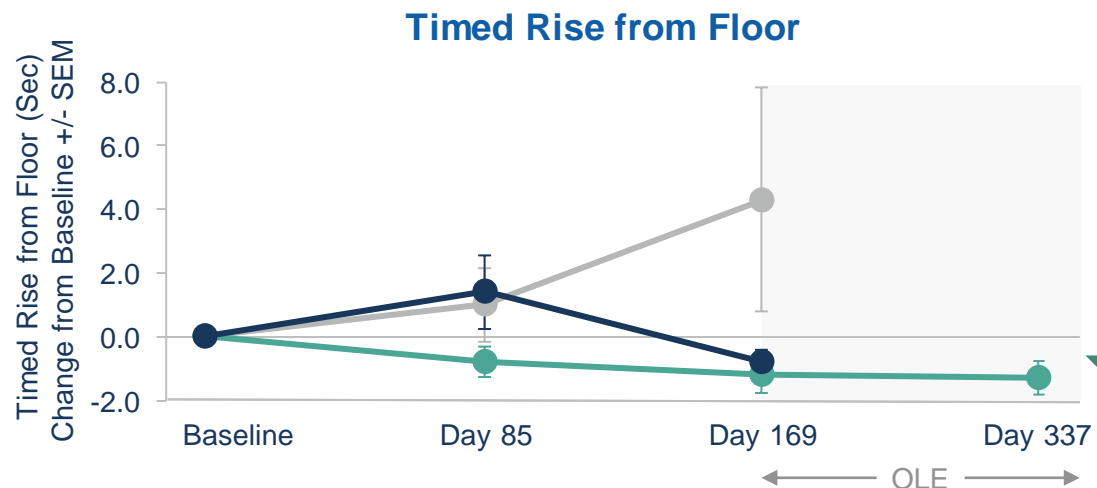
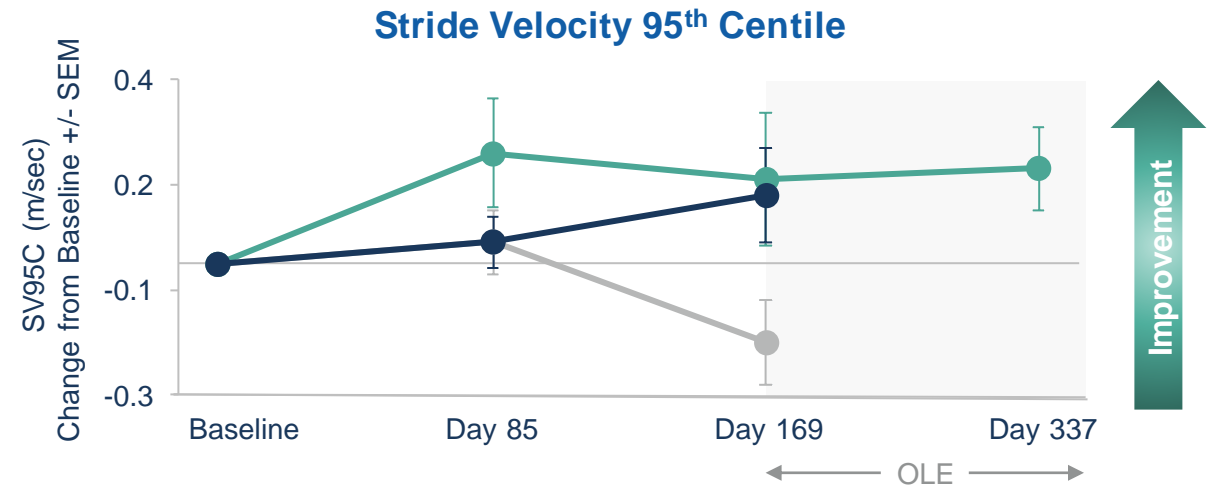
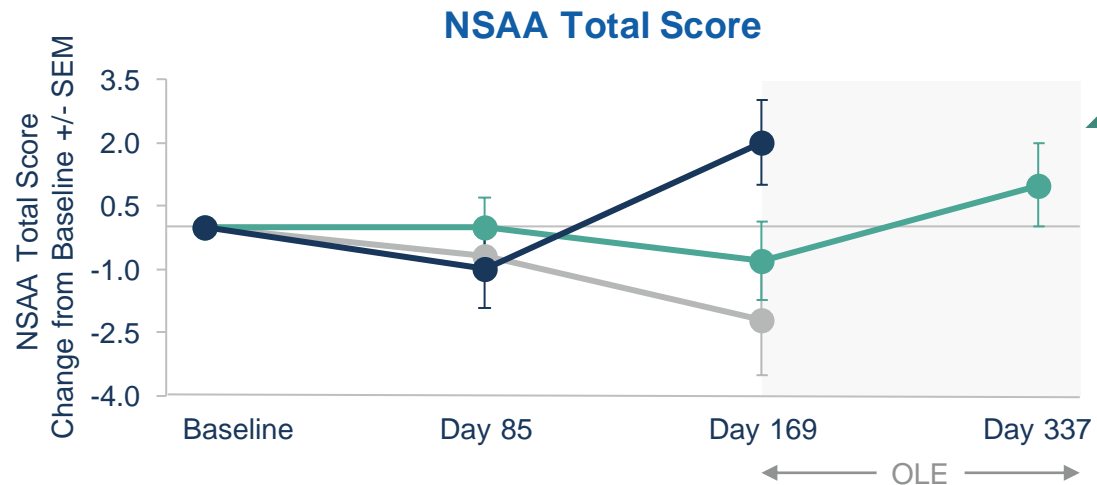


# PDPF: Clear Improvement in Dystrophin Localization to Sarcolemma



# Improvements Across Multiple Functional Endpoints in Multiple Cohorts

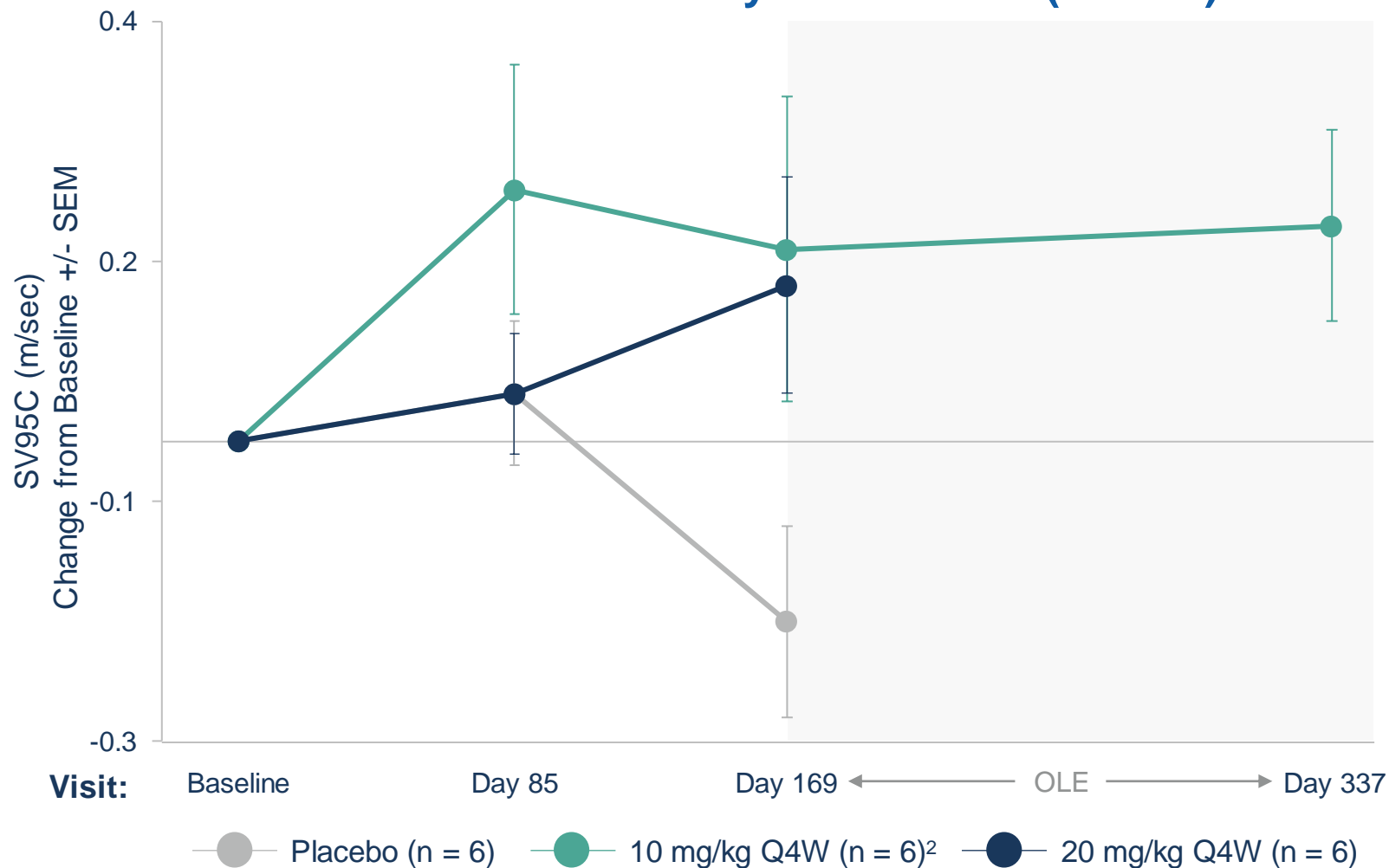
## Baseline Values Inform Interpretation of Data; Ongoing Exploration of Longer Timepoints



# DYNE-251 Drove Clinically Meaningful Improvements in Stride Velocity 95<sup>th</sup> Centile

## SV95C is a Qualified Primary Endpoint for Duchenne Trials in Europe and Leveraged Across Global Trials

### Stride Velocity 95<sup>th</sup> Centile (SV95C)

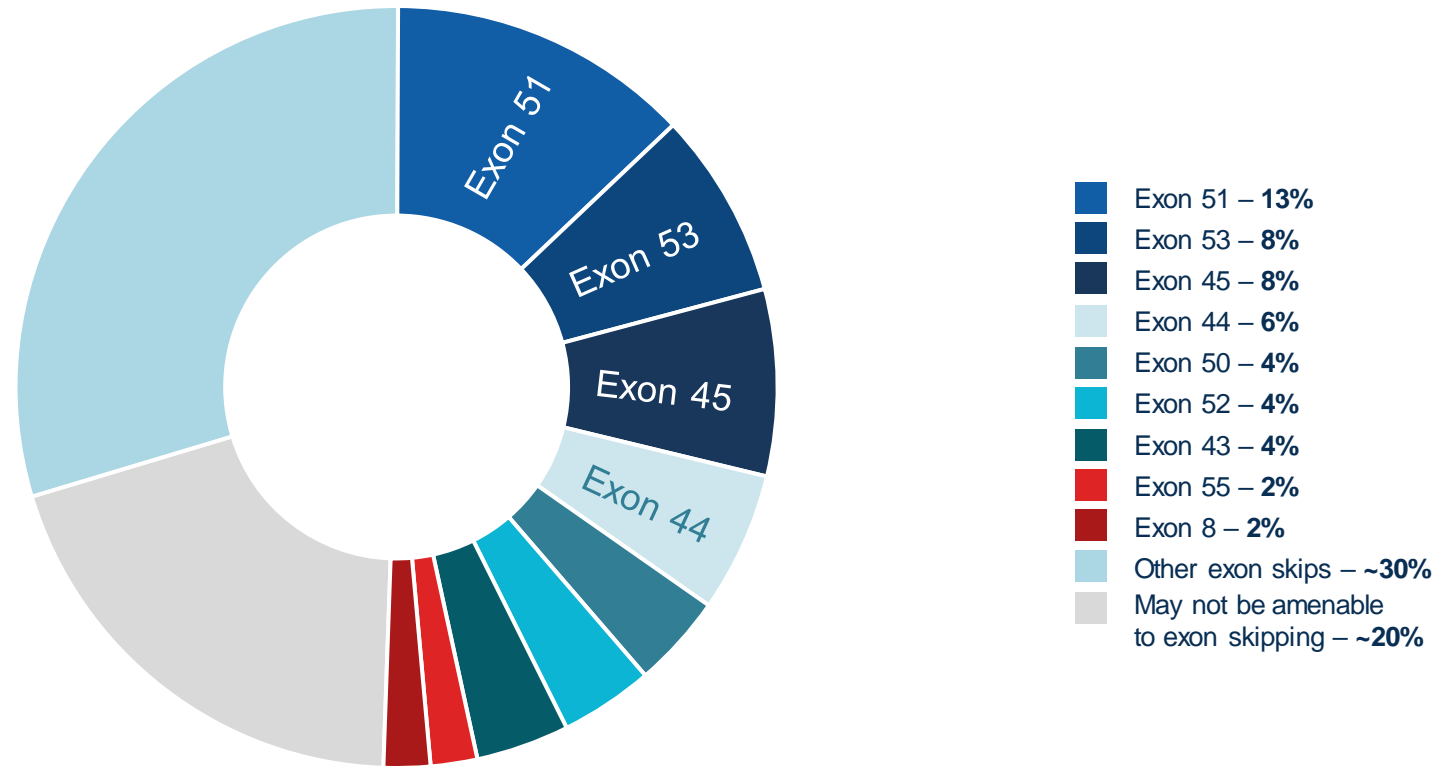


Improvement

- SV95C is a digital objective endpoint of ambulatory performance in patients' normal daily environment
- Patients in DELIVER wore the device on each ankle for 3 weeks prior to the clinic visits
- The change from baseline met the published MCID by the EMA<sup>1</sup>

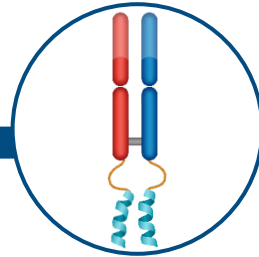
# Opportunity to Build a Global DMD Franchise: Leading with DYNE-251, Payloads Identified for Exons 53, 45, 44

Approximately  
**80% of patients**  
have genotypes amenable  
to exon skipping



# FORCE Positions Dyne With Potential Leading Role in Evolving DMD Therapeutic Landscape

## FORCE



### Potency

- ✓ Targeted muscle delivery, near full-length dystrophin

### Durability

- ✓ Durable target engagement

### Dosing

- ✓ Re-dosable, titratable

### Tolerability

- ✓ Favorable safety profile

### Manufacturing

- ✓ Well-established, scalable

- Muscle delivery is the challenge
- Clinical data to date validates FORCE's targeted delivery to muscle
- Non-targeted delivery modalities face significant challenges, including an acceptable therapeutic index
- SMA landscape strong analogue to DMD with ZOLGENSMA (gene therapy) and SPINRAZA (oligo) playing an important role in evolving standard of care

# Advancing DYNE-251 Towards Potentially Registrational Data Set



Unprecedented level of dystrophin generated, with 3.7% unadjusted and 8.7% muscle content adjusted dystrophin



Improvements in multiple functional outcomes, including SV95C, an approvable endpoint in Europe, in multiple cohorts



Favorable safety profile to date<sup>1</sup>; enrolling registrational cohort at 20 mg/kg Q4W



Supports further development of DMD global franchise

**Enrolling registrational cohort based on regulatory interactions and strength of data**



# Driving Towards Potentially Transformative DM1 and DMD Therapies

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**Delivered on the Promise of FORCE: Enhanced Delivery of Therapeutics to Muscle**

**Compelling Impact on Key Disease Biomarkers and Improvements in  
Multiple Functional Endpoints in Both DM1 and DMD**

**Favorable Safety & Tolerability Profile**

**Fully Enrolled Through 6.8 mg/kg Cohort  
Additional Data Expected in Early  
January 2025**

**Enrolling Registrational Cohort  
at 20 mg/kg**

**Pursuing Expedited Approvals, including Accelerated Approval in the U.S., for Both Programs**

# FSHD Program



## Overview

- Aberrant expression of DUX4
- Onset in teen years or young adulthood
- Normal life expectancy



## Clinical Presentation

- Progressive wasting and skeletal muscle loss
- Significant physical limitations



## Population

- ~16,000 - 38,000 (US)
- ~35,000 (Europe)



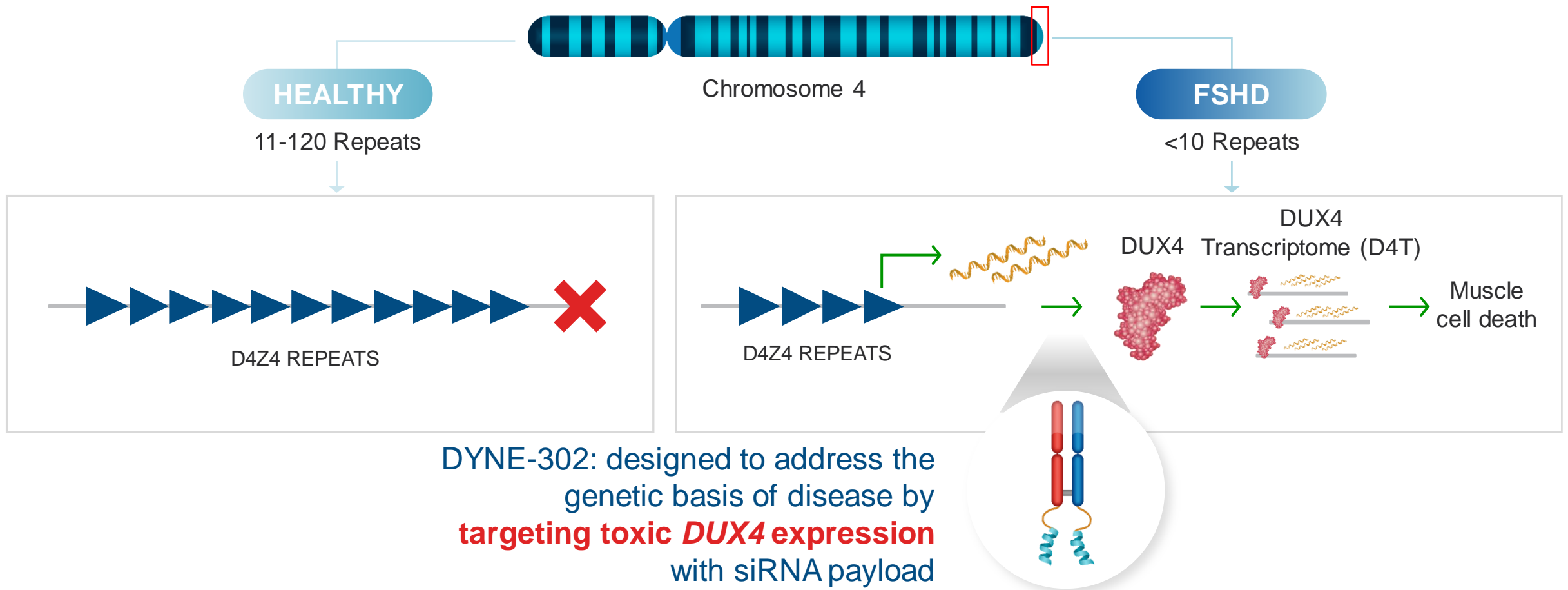
**NO  
approved  
therapies**

## OUR APPROACH

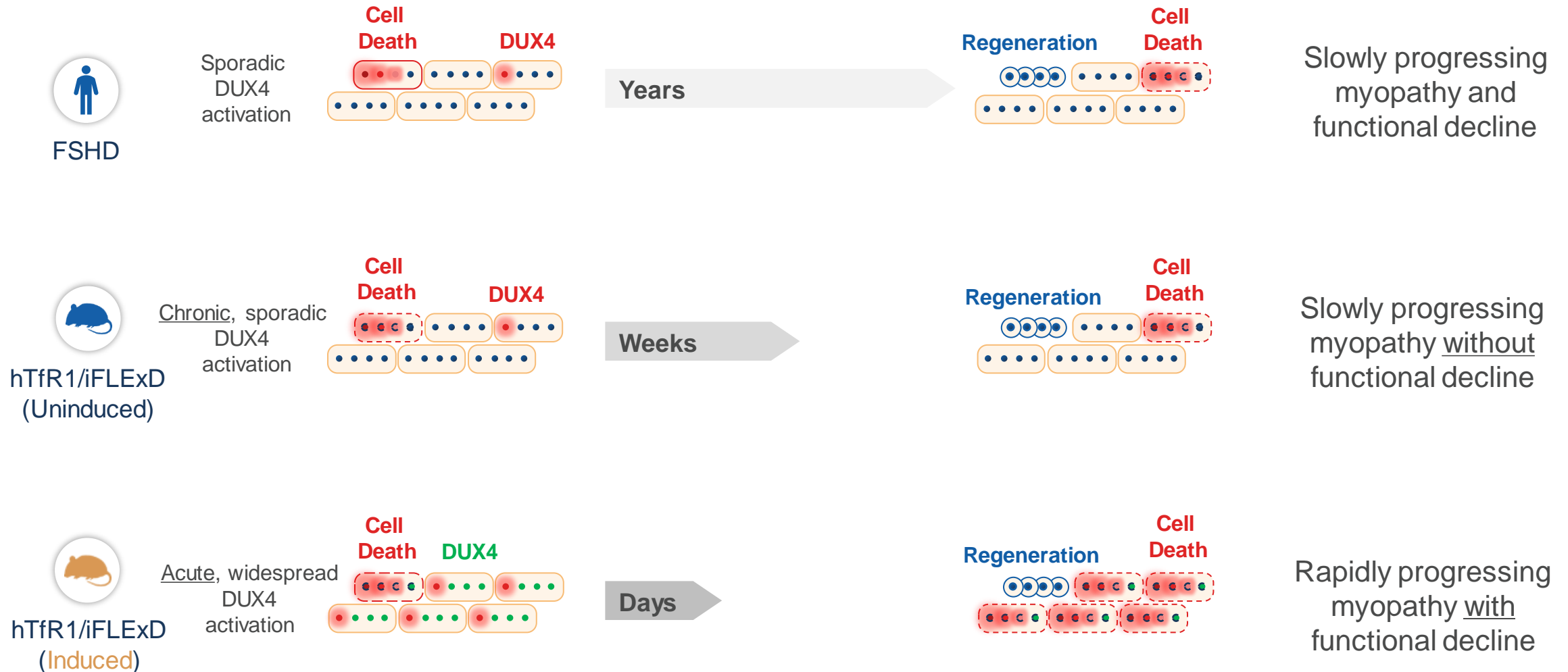
# Disease-Modifying DUX4 Knockdown

Targeting toxic *DUX4* mRNA expression to potentially **stop or reverse disease progression**

# DYNE-302 Targets the Genetic Basis of FSHD



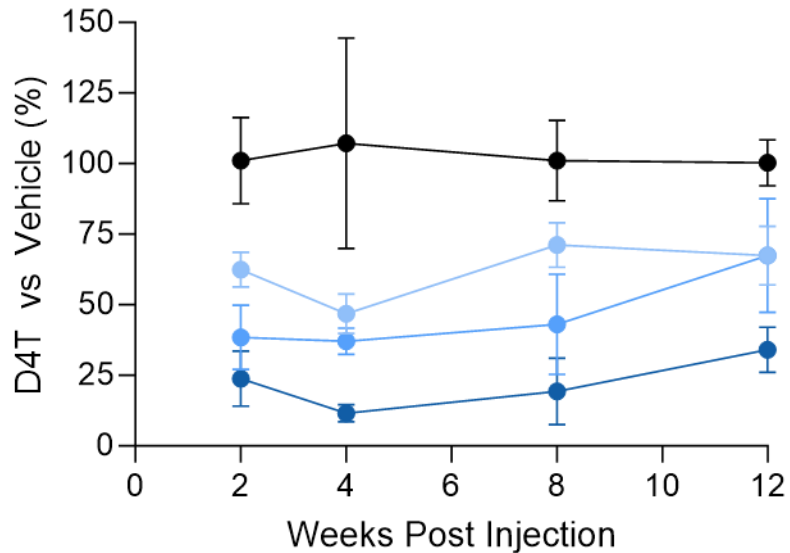
# The hTfR1/iFLExD Mouse Model Recapitulates Multiple Aspects of Human FSHD



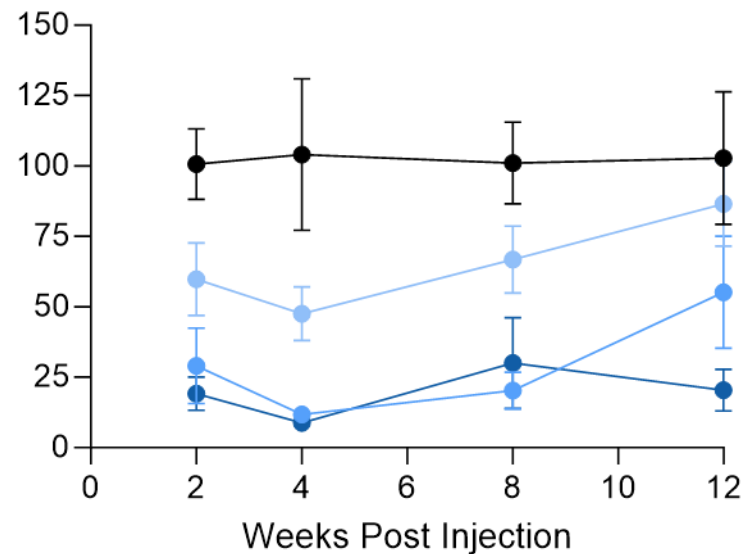
# Single Dose of DYNE-302 Achieved Robust, Durable, and Dose-Dependent D4T Knockdown in Skeletal Muscle of hTfR1/iFLExD FSHD Mice



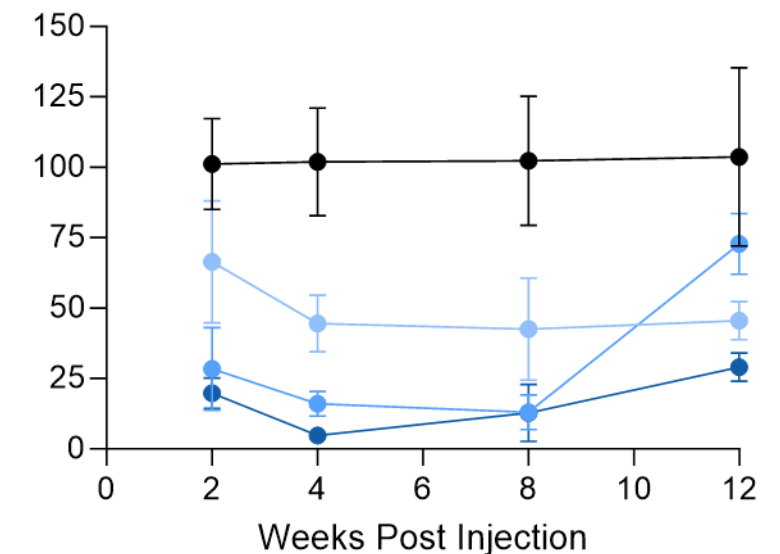
### Quadriceps



### Gastrocnemius



### Tibialis Anterior



● Vehicle    ● DYNE-302 Low Dose    ● DYNE-302 Medium Dose    ● DYNE-302 High Dose

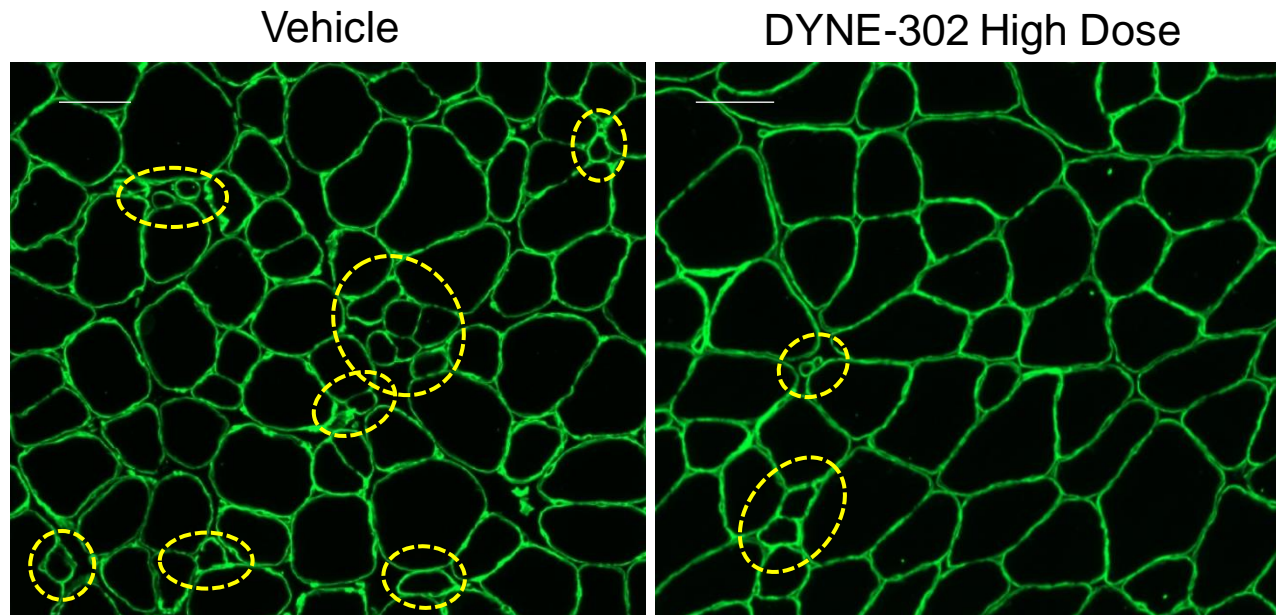
DYNE-302 demonstrates potential for infrequent dosing, out to Q12W

# Single Dose of DYNE-302 Corrected Muscle Pathology in Quadriceps of the Uninduced hTfR1/iFLExD FSHD Model at 12 Weeks



DYNE-302 reduces hypotrophic myofibers

Quantification of hypotrophic myofiber reduction

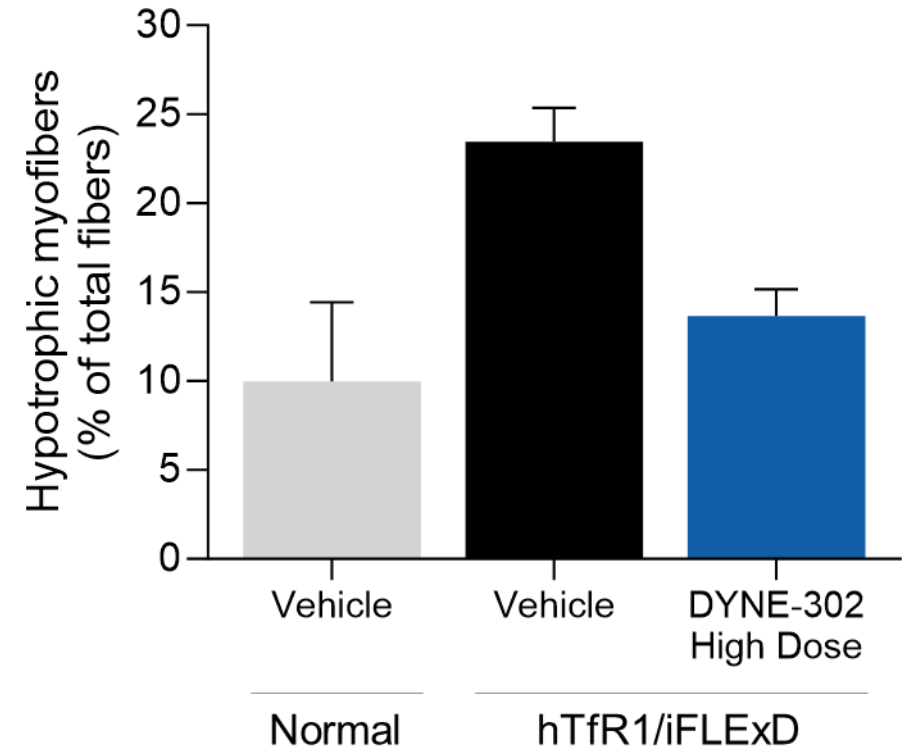


hTfR1/iFLExD

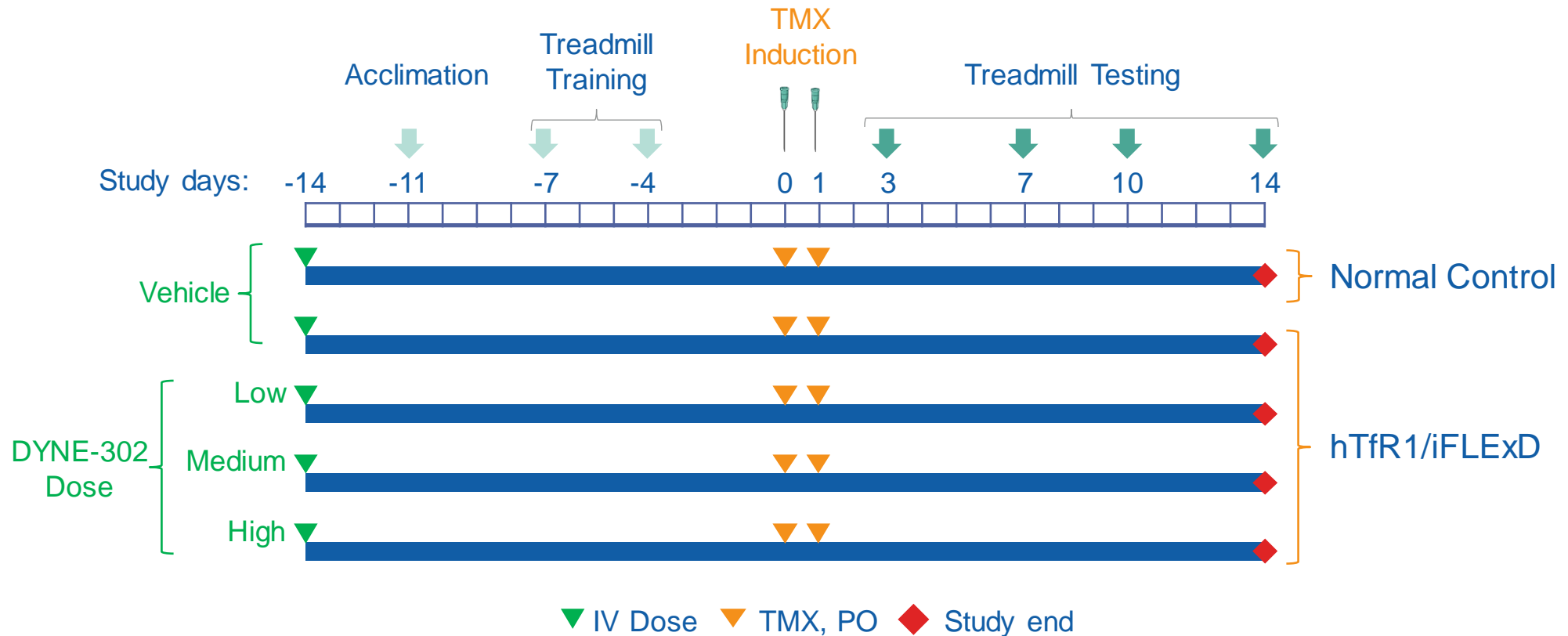
Laminin



Fiber splitting (hypotrophic myofibers)



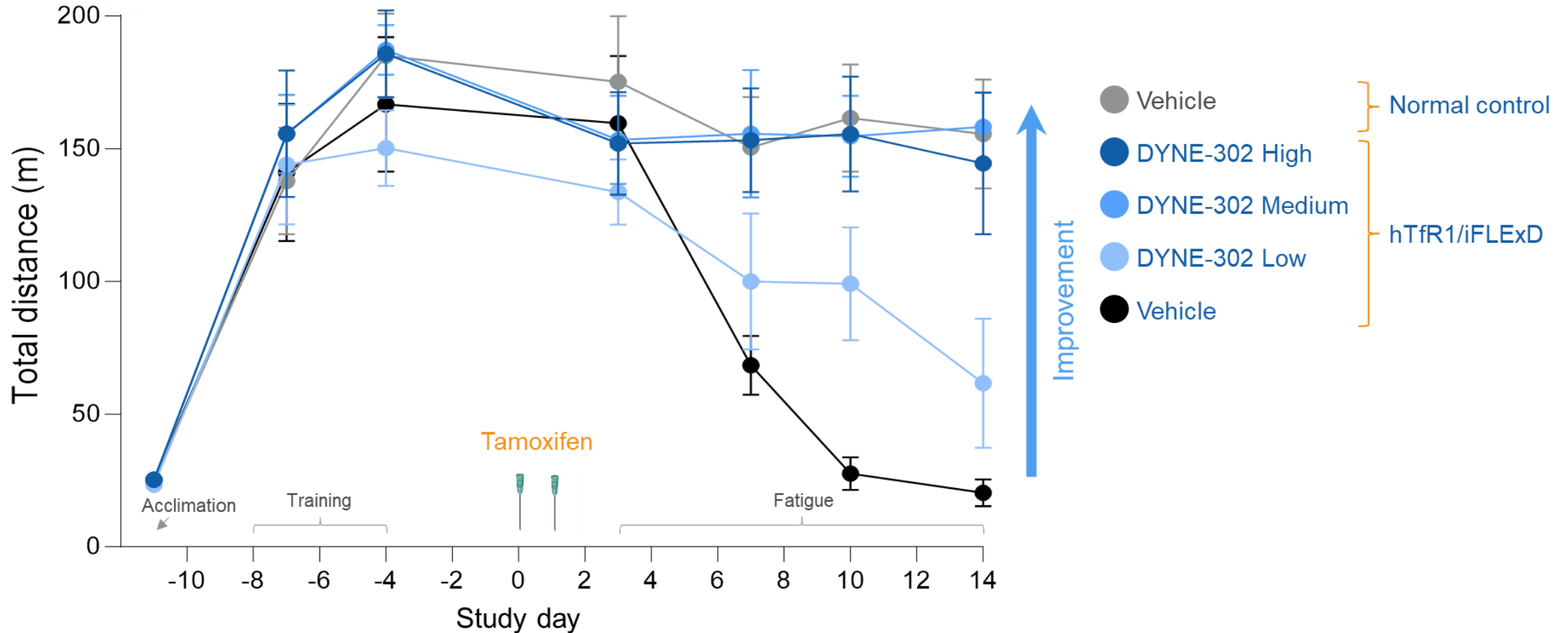
# Study to Establish DYNE-302 Functional Benefit in the Induced hTfR1/iFLExD FSHD Mouse Model



# Single Dose of DYNE-302 Demonstrated Functional Benefit in the Induced hTfR1/iFLExD FSHD Mouse Model



## Functional assessment in forced treadmill run test



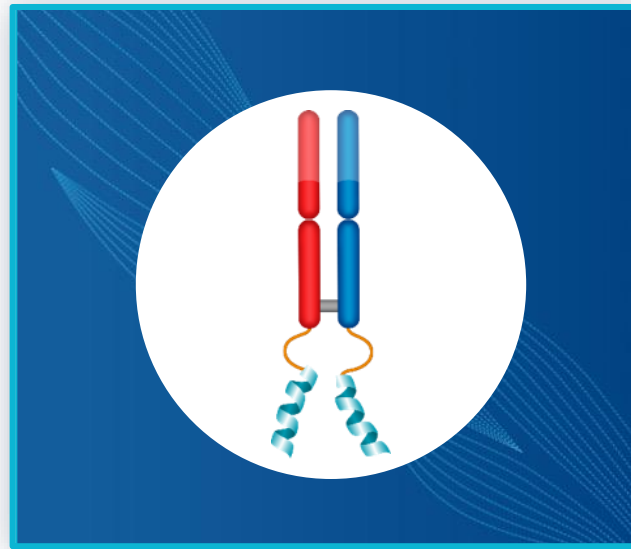




## Building the World's Leading Muscle Disease Company



**Win in DM1, DMD, FSHD**



**Own Muscle Delivery & Leverage FORCE**



**Dynamo Culture**