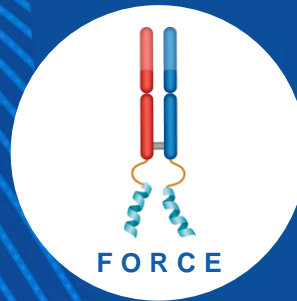




*Achieving the Promise of*  
**FORCE**  
*to Deliver for Patients*



DELIVER CLINICAL UPDATE | SEPTEMBER 3, 2024

# Forward-Looking Statements & Disclaimer

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This presentation contains forward-looking statements that involve substantial risks and uncertainties. All statements, other than statements of historical facts, contained in this presentation, including statements regarding Dyne's strategy, future operations, prospects and plans, objectives of management, the potential of the FORCE platform, the anticipated timelines for reporting additional data from the ACHIEVE and DELIVER clinical trials and initiating registrational cohorts, expectations regarding the timing and outcome of interactions with global regulatory authorities and the availability of accelerated approval pathways for DYNE-101 and DYNE-251, and plans to provide future updates on pipeline programs, constitute forward-looking statements within the meaning of The Private Securities Litigation Reform Act of 1995. The words "anticipate," "believe," "continue," "could," "estimate," "expect," "intend," "may," "might," "objective," "ongoing," "plan," "predict," "project," "potential," "should," or "would," or the negative of these terms, or other comparable terminology are intended to identify forward-looking statements, although not all forward-looking statements contain these identifying words. Dyne 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 these forward-looking statements as a result of various important factors, including: uncertainties inherent in the identification and development of product candidates, including the initiation and completion of preclinical studies and clinical trials; uncertainties as to the availability and timing of results from preclinical studies and clinical trials; the timing of and Dyne's ability to enroll patients in clinical trials; whether results from preclinical studies and initial data from early clinical trials will be predictive of the final results of the clinical trials or future trials; uncertainties as to the FDA's and other regulatory authorities' interpretation of the data from Dyne's clinical trials and acceptance of Dyne's clinical programs and the regulatory approval process; whether Dyne's cash resources will be sufficient to fund its foreseeable and unforeseeable operating expenses and capital expenditure requirements; as well as the risks and uncertainties identified in Dyne's filings with the Securities and Exchange Commission (SEC), including the Company's most recent Form 10-Q and in subsequent filings Dyne may make with the SEC. In addition, the forward-looking statements included in this presentation represent Dyne's views as of the date of this presentation. Dyne anticipates that subsequent events and developments will cause its views to change. However, while Dyne may elect to update these forward-looking statements at some point in the future, it specifically disclaims any obligation to do so. These forward-looking statements should not be relied upon as representing Dyne's views as of any date subsequent to the date of this presentation.

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# Program

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**Opening remarks**  
John Cox, President & CEO



**DYNE-251 DELIVER Trial in DMD Data**  
Wildon Farwell, M.D., MPH, Chief Medical Officer



**Closing Remarks**  
John Cox, President & CEO



**Q&A**





OUR MISSION

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

# Committed to Building the World's Leading Muscle Disease Company

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## DELIVER CLINICAL UPDATE

- Potential to transform the treatment paradigm for people living with DMD
- Best-in-class dystrophin resulting in unprecedented improvements in multiple functional outcomes, including NSAA and SV95C, in multiple cohorts<sup>1</sup>
- Favorable safety profile to date<sup>2</sup>

## LEADERSHIP UPDATE

- Proven team of biopharma executives to deliver on Dyne's next chapter
  - Doug Kerr (CMO), Johanna Friedl-Naderer (CCO), and Lucia Celona (CHRO) bring decades of global experience across rare disease clinical development, commercial execution, and organizational builds
- Accelerating commercial preparedness across key functions

## NEXT STEPS

- Continue to pursue expedited approval pathways globally
- Initiating registrational cohorts in DELIVER trial of DYNE-251 in DMD
- Provide update on the path to registration for DYNE-101 and DYNE-251 by the end of 2024

# Program

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**Opening remarks**  
John Cox, President & CEO



**DYNE-251 DELIVER Trial in DMD Data**  
Wildon Farwell, M.D., MPH, Chief Medical Officer



**Closing Remarks**  
John Cox, President & CEO



**Q&A**

# 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)



Current Approved  
Exon 51 Therapies  
Only Increased  
Dystrophin  
Production

<1%

## OUR APPROACH

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

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

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



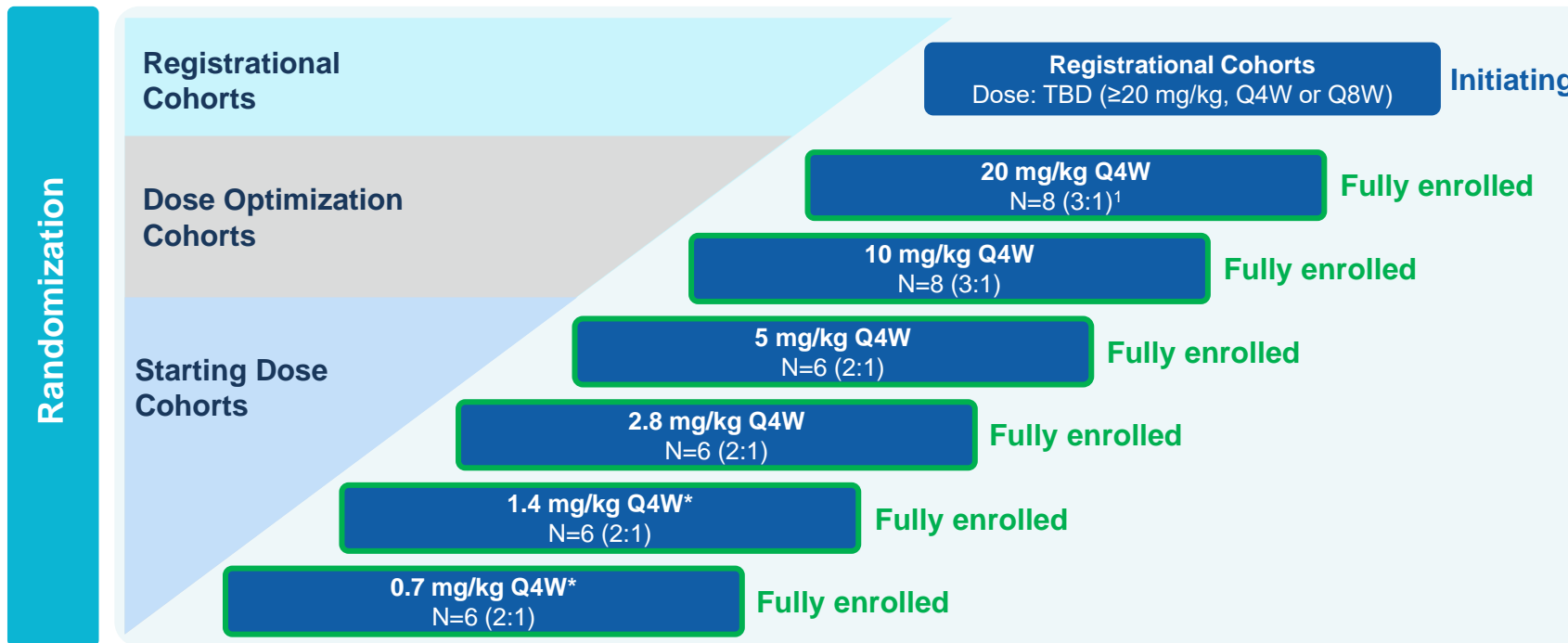
Population	Primary Endpoints	Additional Endpoints	Stages of DELIVER
<ul style="list-style-type: none"><li>• Male patients with DMD with mutations amenable to exon 51 skipping therapy</li><li>• Ages 4 to 16 years</li><li>• Ambulant and non-ambulant</li></ul>	<ul style="list-style-type: none"><li>• Safety 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)	7.8 (3.3)	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 (2.3)	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%)

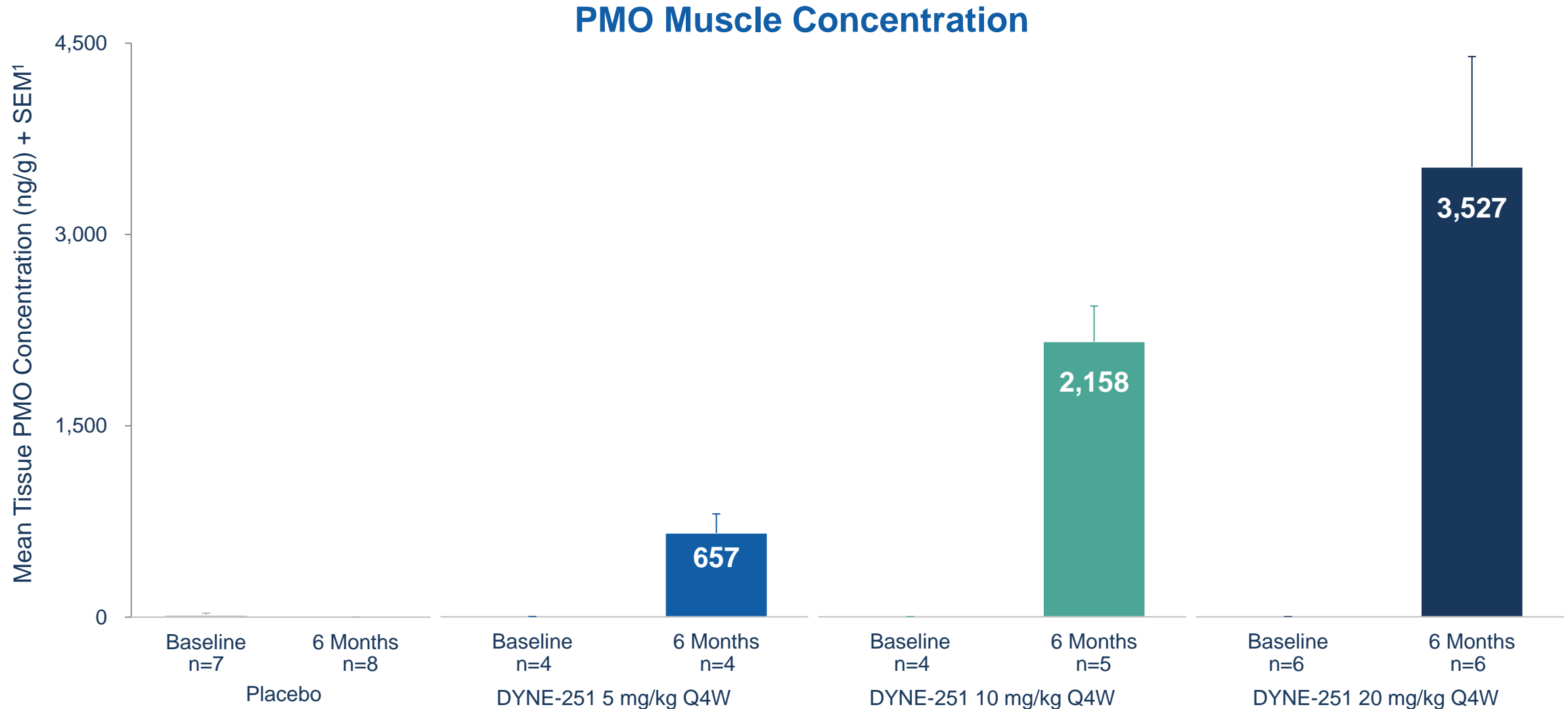
## Additional Safety Data

- 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>

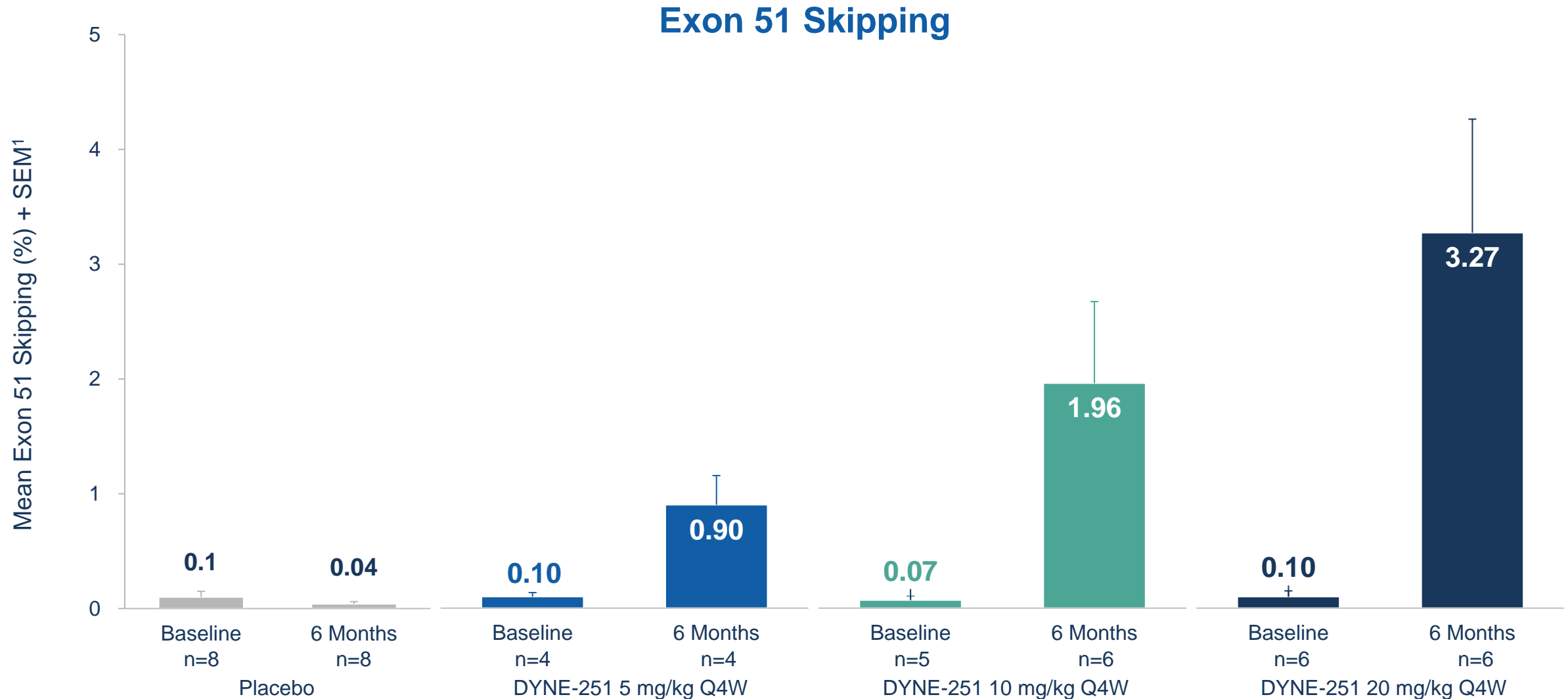
1. Data as of August 21, 2024; 2. Events have same day of onset in a single participant in the context of fever, hemolysis, diarrhea and positive blood in stool; together, these events are potentially consistent with hemolytic uremic syndrome (HUS) with a potential infectious etiology. 3. Participant 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



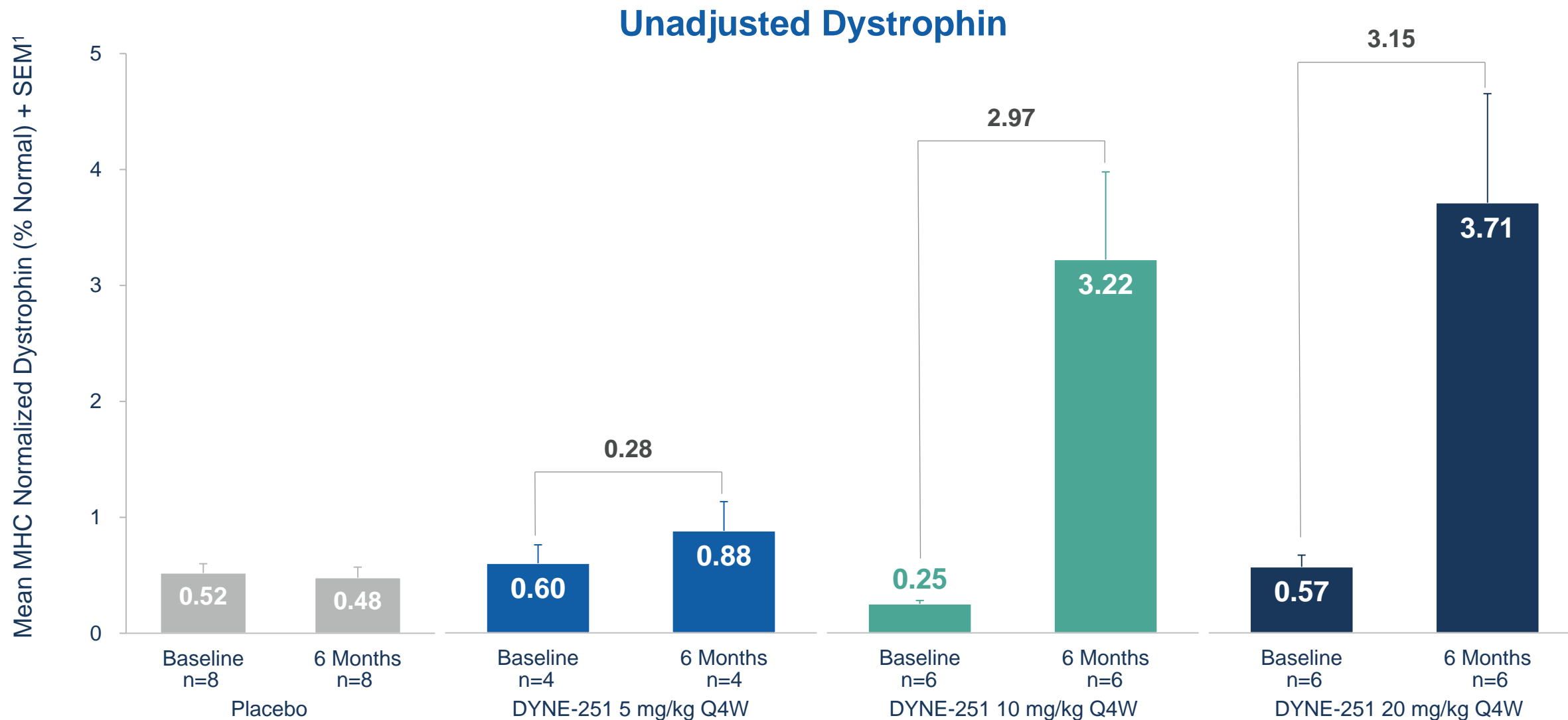


# DYNE-251 Demonstrated Dose-Dependent Exon Skipping

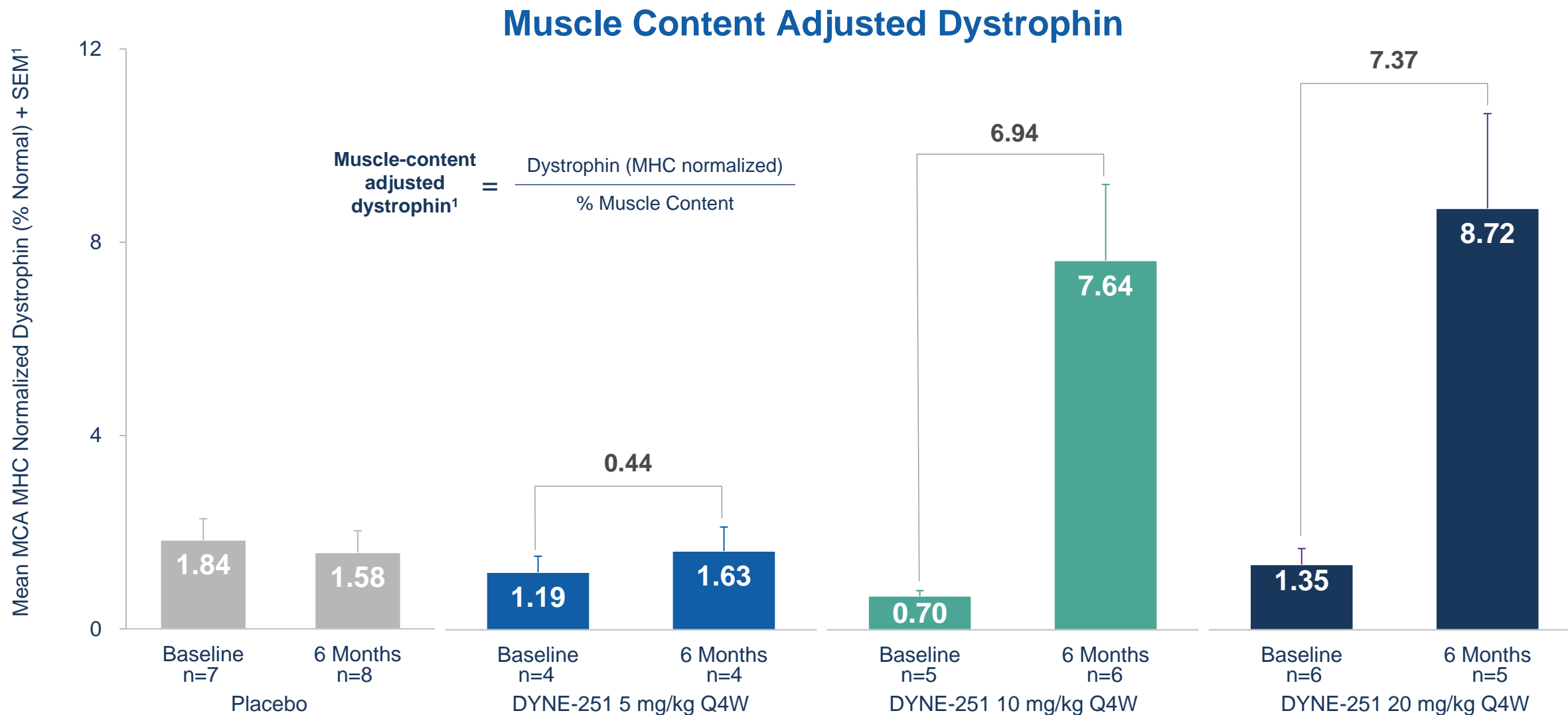


# Higher Doses of DYNE-251 Continued to Drive Robust Dystrophin Expression

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

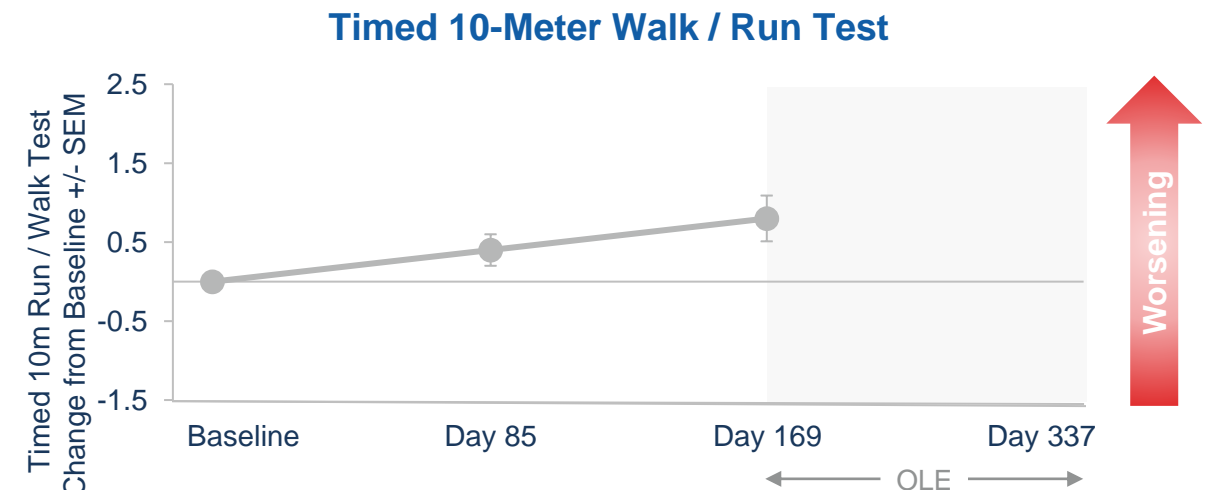
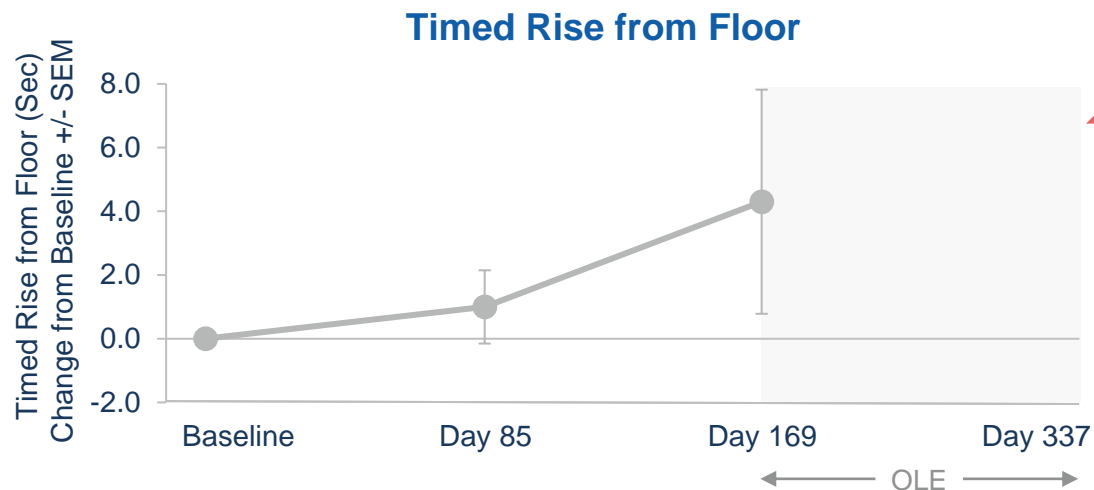
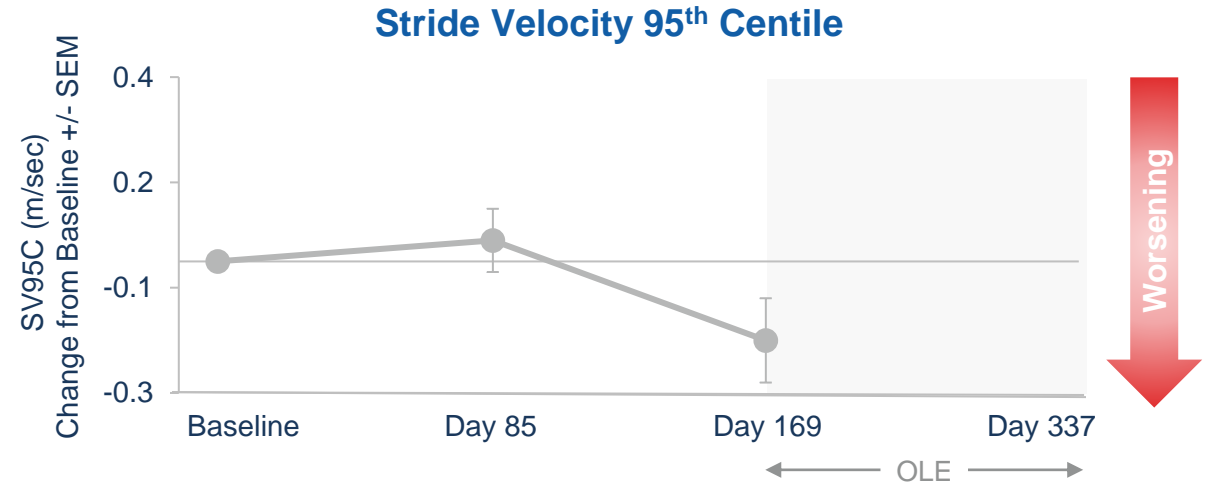
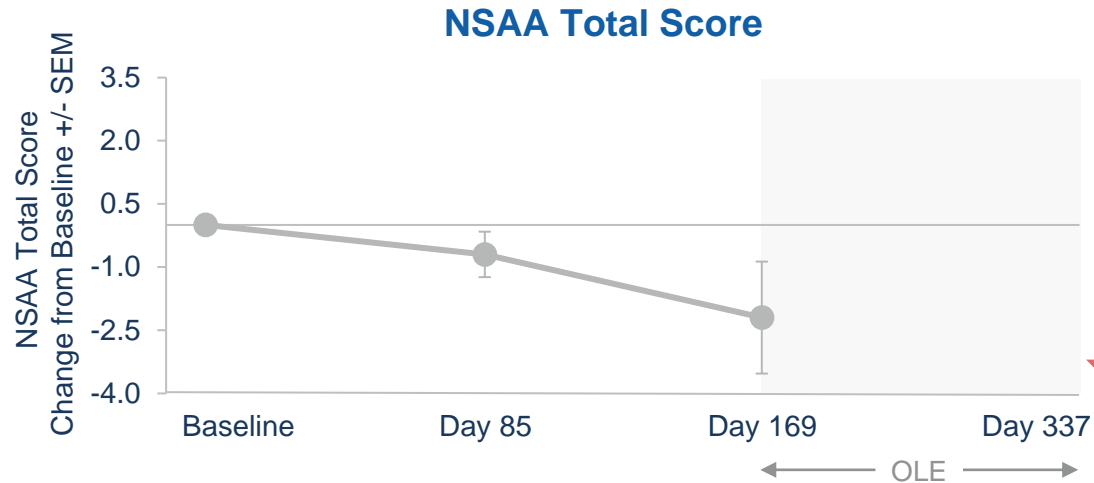


# DYNE-251 Positioned as a Potentially Best-in-Class Next Generation Exon Skipper, Achieving 8.7% Muscle Content Adjusted Dystrophin at 6 Months



# Placebo Response is Consistent with Duchenne Natural History <sup>1</sup>

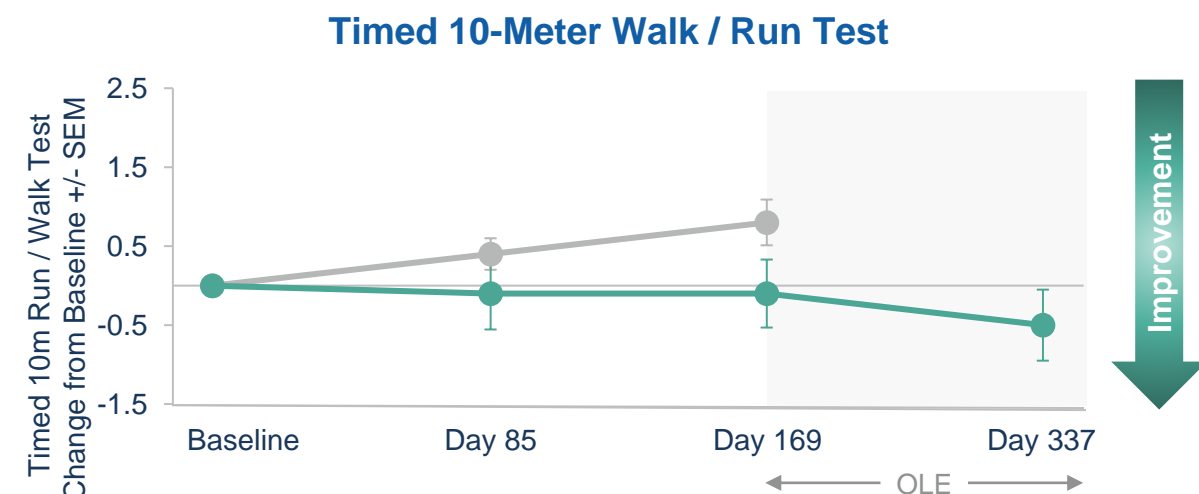
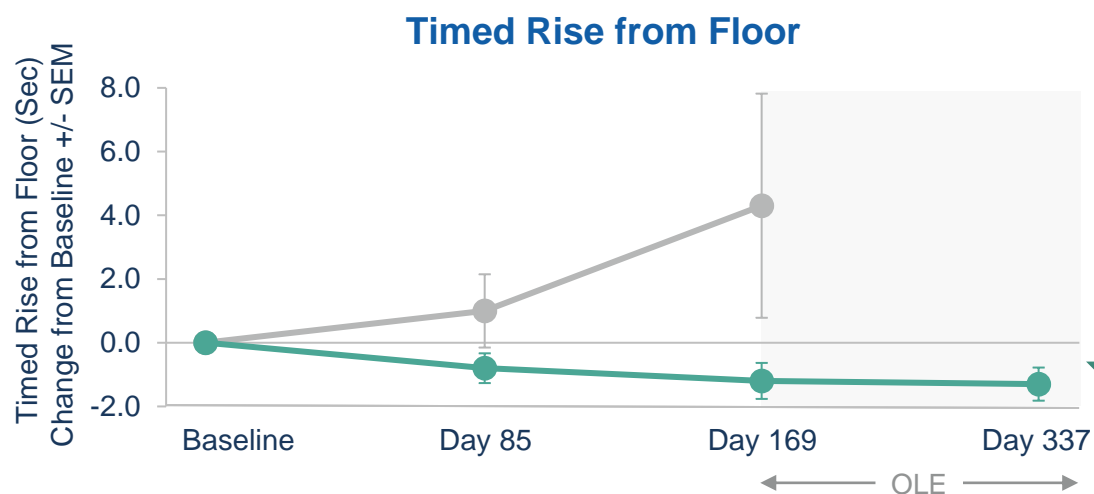
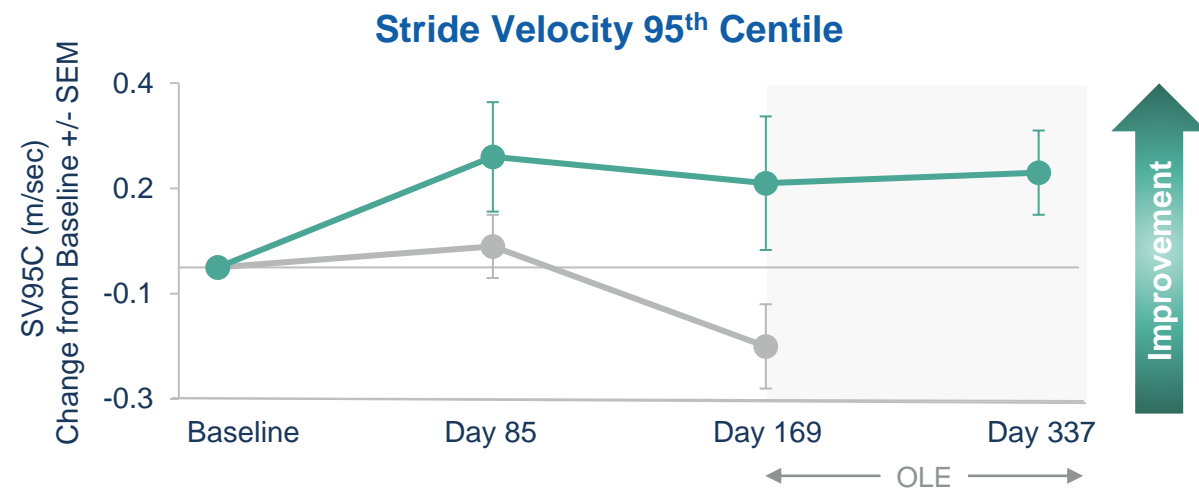
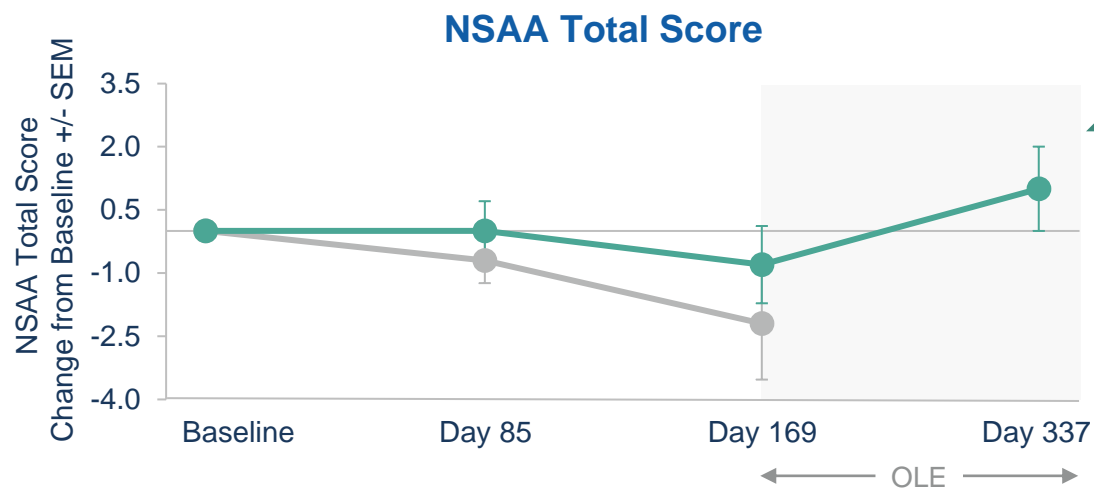
## DMD Patients Worsen Across a Number of Functional Measurements Over Time



● Placebo (n=6 for SV95C and n=14 for other endpoints)

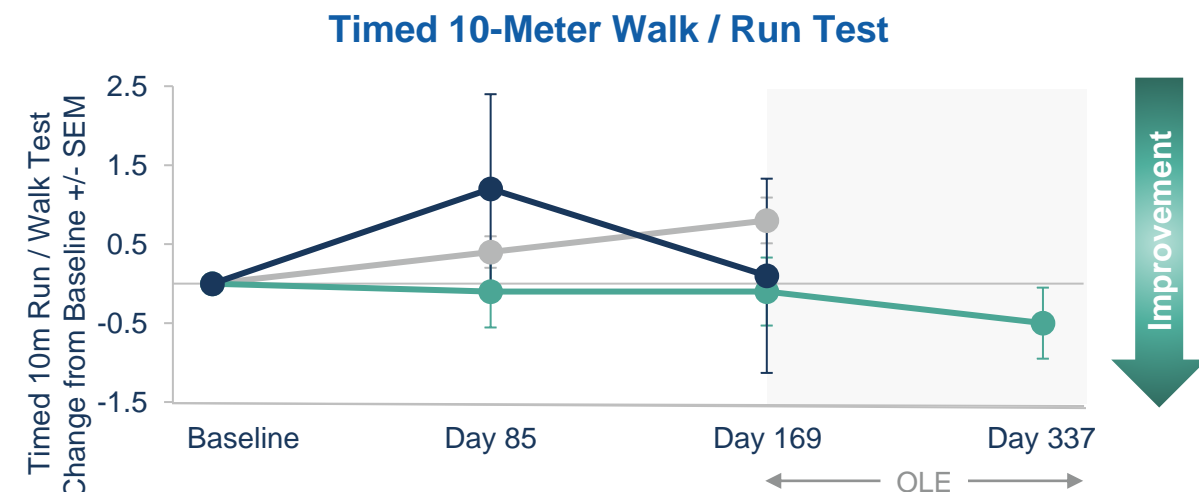
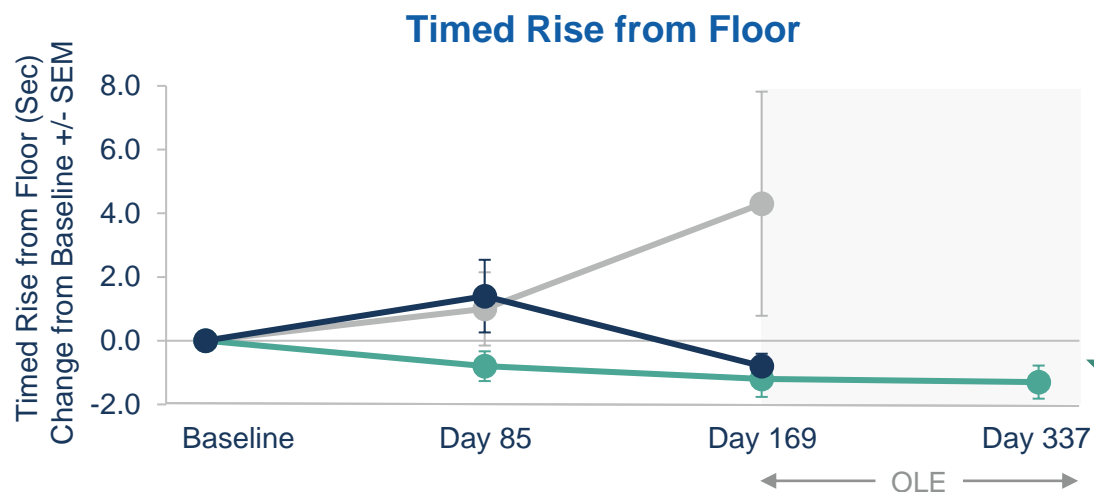
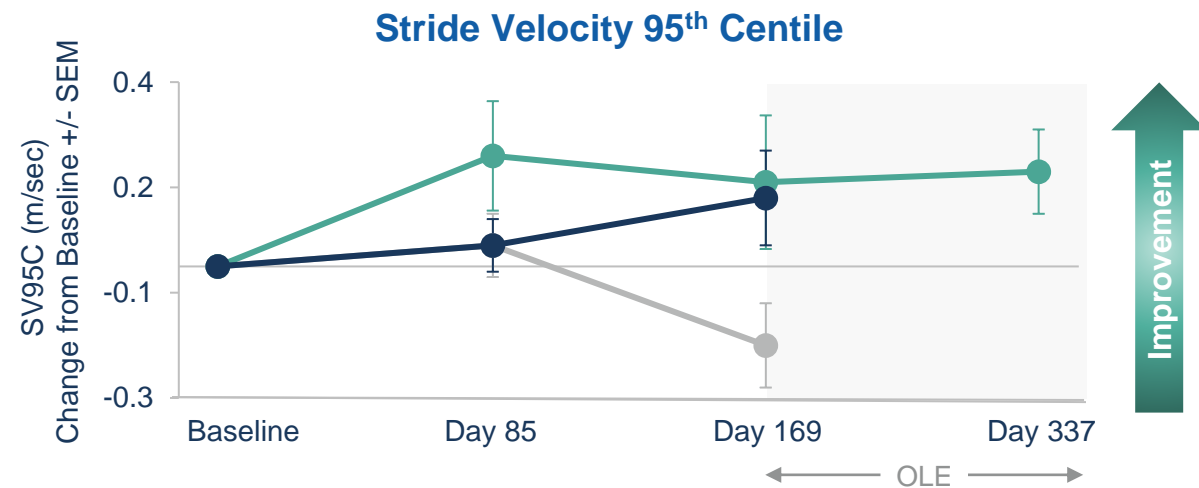
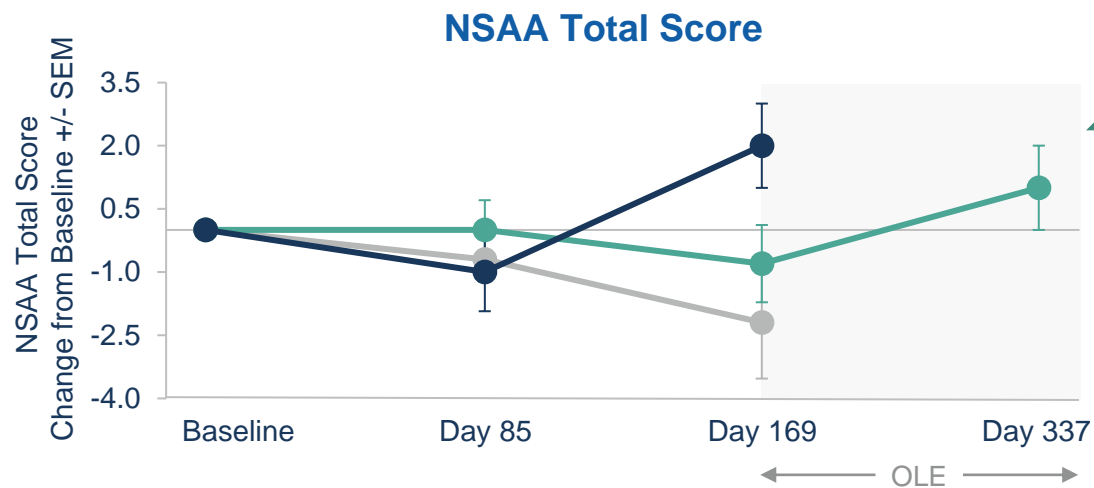


# Data from 10 mg/kg Cohort Highlights Extension of Effect from 6 Months to 1 Year



# Improvements Across Multiple Functional Endpoints in Multiple Cohorts

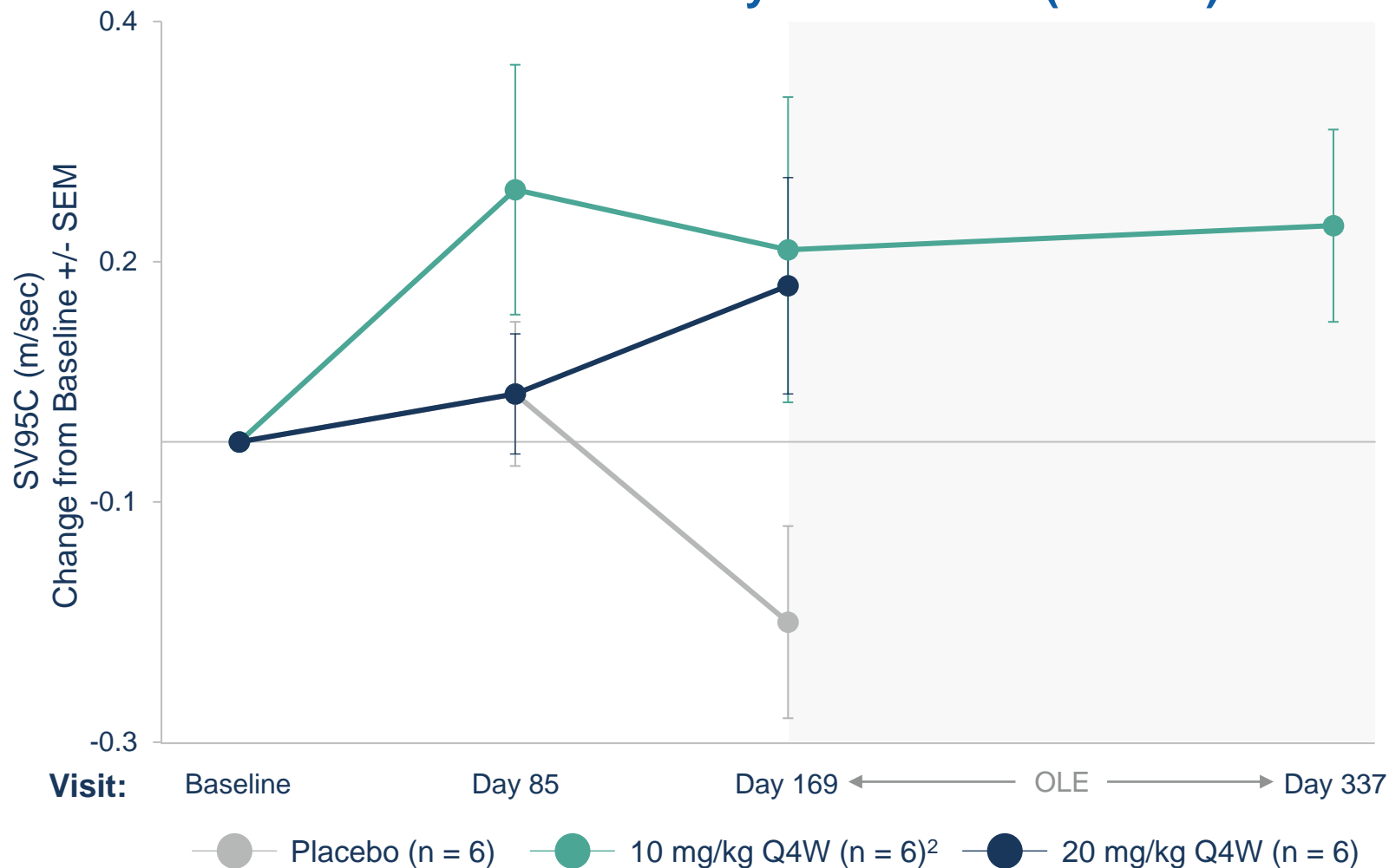
## Baseline Values Inform Interpretation of Data; Ongoing Exploration of Longer Timepoints



# 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)

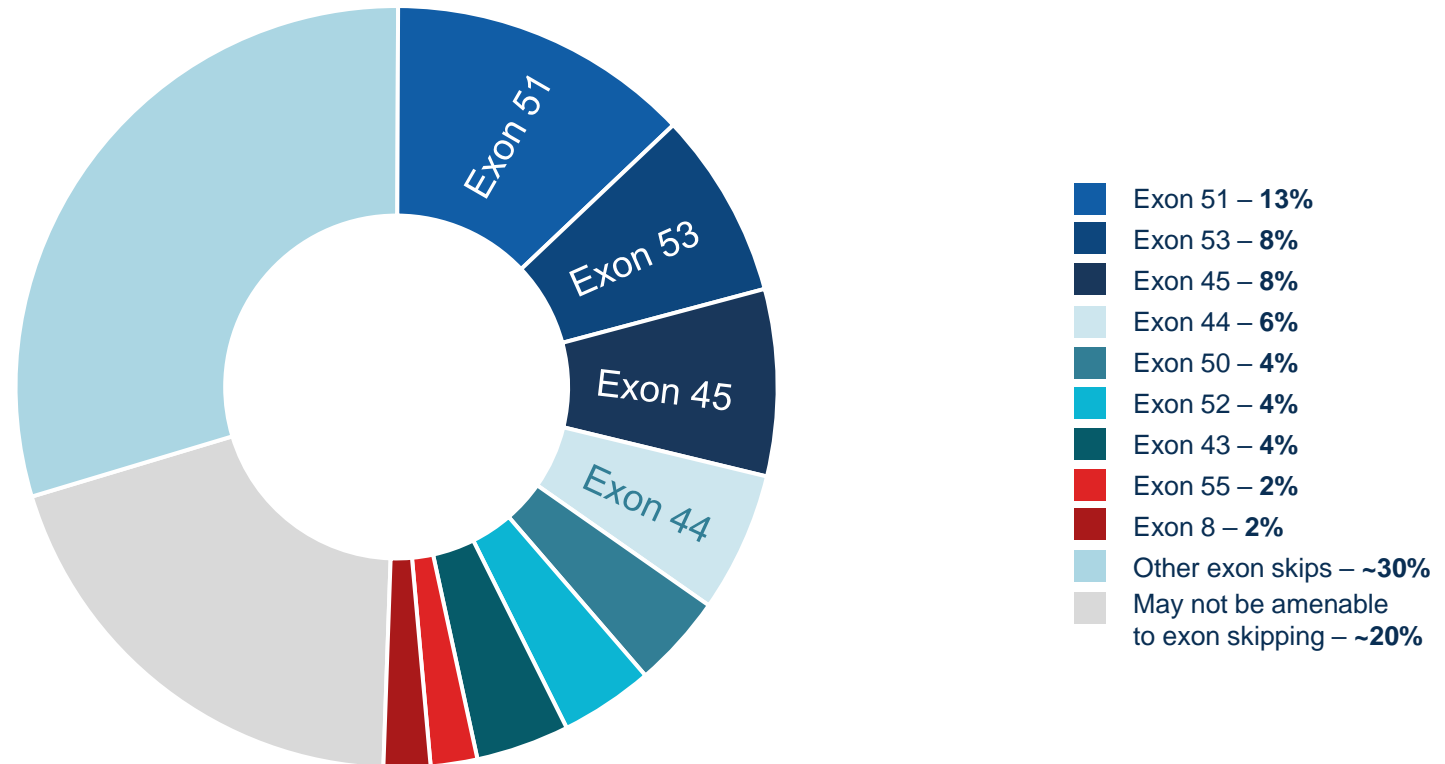


Improvement

- 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





# 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 with ~675 doses administered representing over 50 patient-years of follow up to date<sup>1</sup>



Supports further development of DMD global franchise

**Initiating registrational cohorts based on regulatory interactions and strength of data**

Update on path to registration for DYNE-251 expected by YE 2024

# Program

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**Opening remarks**  
John Cox, President & CEO



**DYNE-251 DELIVER Trial in DMD Data**  
Wildon Farwell, M.D., MPH, Chief Medical Officer



**Closing Remarks**  
John Cox, President & CEO



**Q&A**

# 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**

**Initiating Registrational Cohorts**

**Pursuing Expedited Approvals for Both Programs with Update on Registrational Pathway by YE 2024**

# Strengthening the Team to Deliver on Dyne's Next Chapter



**Doug Kerr**  
Chief Medical Officer



**Johanna Friedl-Naderer**  
Chief Commercial Officer



**Lucia Celona**  
Chief Human Resources Officer



Proven Team of Biopharma Executives Prepared to Advance Multiple Programs to Market

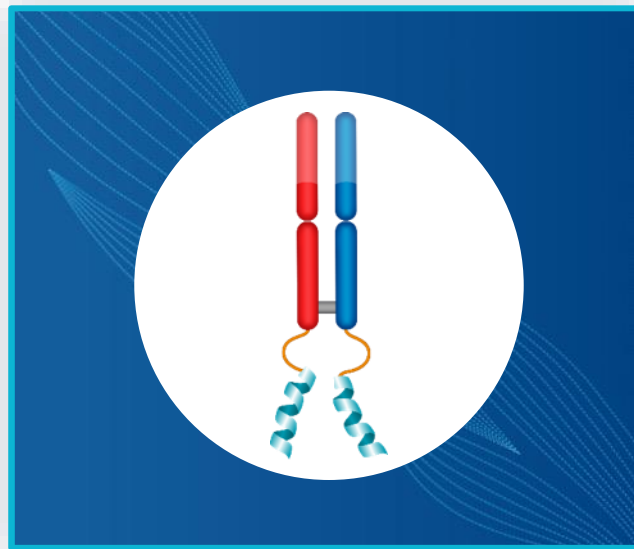




## Building the World's Leading Muscle Disease Company



**Win in DM1, DMD, FSHD**



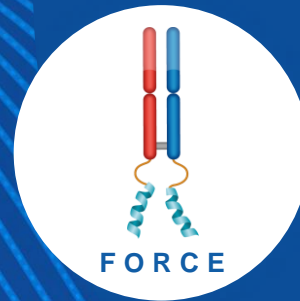
**Own Muscle Delivery & Leverage FORCE**



**Dynamo Culture**



*Achieving the Promise of*  
**FORCE**  
*to Deliver for Patients*



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