Safety and Efficacy of Delandistrogene Moxeparvovec Versus Placebo in Duchenne Muscular Dystrophy: **Phase 3 EMBARK Primary Results**

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What does this study mean for the DMD community

The totality of findings from all functional outcomes assessed in the EMBARK study, including the timed functional tests supports modification of disease trajectory with delandistrogene moxeparvovec with a manageable safety profile. EMBARK Part 2 will provide 2-year data for patients treated in Part 1, allowing progression to be monitored and adding to longer-term data.

Conclusions



	Delandistrogene moxeparvovec (n=63)	Placebo (n=62)	
Patients with any TEAE, n (%)	62 (98.4)	57 (91.9)	
TEAEs, n	664	502	
Patients with any TR-TEAE, n (%)	48 (76.2)	17 (27.4)	
TR-TEAEs, n	235	43	
Patients with any TR-SAE, n (%)	7 (11.1)	0	
TR-SAEs, n	10	0	
Patients with an AE leading to study discontinuation, n (%)	0	0	
Deaths, n (%)	0	0	
The safety profile of delandistrogene moxeparvovec in EMBARK was consistent with experience from early phase studies . AEs were medically manageable with appropriate monitoring and treatment.			

- NSAA

placebo Muscle biopsy*

 \longrightarrow Delandistrogene placebo EXTENSION moxeparvovec **STUDY 305** SINGLE IV INFUSION Long-term efficacy SINGLE IV INFUSION Delandistrogene and safety) moxeparvovec • Functional assessments

Stratification based on age at randomization (≥4 to <6 or ≥6 to <8 years) and NSAA score at screening (≤22 vs. >22). *Only a subset of patients will receive a muscle biopsy for expression assessments, based on site experience and feasibility.

Key inclusion criteria

(N=125)

- Ambulatory males aged \geq 4 to <8 years at randomization. Confirmed DMD diagnosis (DMD mutation fully contained between exons 18 to 79 [inclusive]).
- Ability to cooperate with motor assessment testing.
- NSAA score >16 and <29 points at screening.
- ≥12 weeks before screening. rAAVrh74 total binding antibody titers <1:400 (i.e. not
- TTR <5 seconds at screening.
- On a stable daily dose of oral corticosteroids for
- elevated).

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- At Week 52, the safety profile of delandistrogene moxeparvovec was consistent with prior experience, and AEs were medically manageable with appropriate monitoring and treatment, with no new safety signals identified, and no deaths, study discontinuations or clinically relevant complement-mediated AEs.
- Although delandistrogene moxeparvovec did not show a statistically significant difference in the primary endpoint at Week 52 versus placebo, there was a clear separation between treatment groups, most evident on key secondary and other functional endpoints that consisted of well-validated measures of ambulatory function in DMD.
- effect.

Study design and endpoints¹⁰ (cont.)

Safety endpoints

- TEAEs, SAEs and AEs of special interest. Clinically significant changes in laboratory assessments. Additional pre-specified efficacy analyses
- GST for totality of evidence analysis on a composite of endpoints through permutations.^{12,13}
- The primary endpoint and secondary endpoints were tested using a statistical hierarchy to control the overall Type I error at a 2-sided level of 0.05*

Results

• Patient demographics and baseline clinical characteristics were balanced between delandistrogene moxeparvovec

	Delandistrogene moxeparvovec (n=63)	Placebo (n=62)	All (N=125)
	5.98 (1.06) 30 (47.6) 33 (52.4)	6.08 (1.05) 29 (46.8) 33 (53.2)	6.03 (1.05) 59 (47.2) 66 (52.8)
	21.29 (4.62)	22.37 (6.42)	21.83 (5.59)
started,	1.07 (0.92)	0.97 (0.83)	1.02 (0.88)
Baseline functional assessments			
	23.10 (3.75)	22.82 (3.78)	22.96 (3.75)
	3.52 (0.81)	3.60 (0.68)	3.56 (0.75)
	4.82 (0.79)	4.92 (0.73)	4.87 (0.76)
	1.82 (0.30)	1.77 (0.29)	1.79 (0.30)
	60.67 (15.55)	63.01 (17.01)	61.80 (16.25)
D)‡	3.17 (1.01)	3.37 (1.09)	3.27 (1.05)
oo n=62, total N=123. †100MWR: Delandistrogene moxeparvovec n=63, placebo n=59, total N=122.			

There were no clinically relevant complement activation AEs, no deaths and no study discontinuations

The heterogeneity of DMD disease progression is a challenge when designing trials of short duration in this study population and age range (4–7-year-olds).^{16,17}

- Motor function may still be improving, maintaining or starting to decline.

Primary endpoint

Figure 3. Change from baseline to Week 52 in NSAA total score



*The widths of CIs have not been adjusted for multiplicity and cannot be used to infer definitive treatment effects. †One patient in the placebo group had missing data at Week 52; the patient's functional tests were marked as invalid by the clinical evaluator due to back pain from compression fractures.

Key secondary functional endpoints

Figure 5. Change from baseline to Week 52 in a) TTR and b) 10MWR



*Since the primary endpoint did not meet statistical significance, all P-values resulting from subsequent hierarchical testing of endpoints are presented with no multiplicity and cannot be used to infer definitive treatment effects. *One patient in the placebo group had missing data at Week 52; the patient's functional tests were marked as invalid by the clinical evaluator due to back pain from compression fractures.

TFTs

Other secondary functional endpoints are shown in Supplementary Figures 1–3.

Pre-specified GST

- A pre-specified **GST** was performed as an additional exploratory analysis to assess overall treatment effects.
- The test was on a composite of functional endpoints (Primary endpoint: NSAA total score; Key secondary functional endpoints: TTR, 10MWR; Other secondary functional endpoints: SV95C, 100MWR, ascend 4 steps).
- The GST supported the totality of evidence of treatment benefit with delandistrogene moxeparvovec compared with placebo (P=0.0044).
- A 1-point difference in the NSAA indicates different ranges of function, from inability to do a task, to using compensation, or performing with no compensation.¹⁶ In younger patients, neurodevelopmental maturation might also affect these achievements.¹⁸

Abbreviations

10MWR, 10-meter Walk/Run; 100MWR, 100-meter Walk/Run; AAVrh74, adeno-associated virus rhesus isolate serotype 74; AE, adverse event; CI, confidence interval; DMD, Duchenne muscular dystrophy; GST, global statistical test; ITR, inverted terminal repeat; IV, intravenous; LSM, least-squares mean; INSAA, North Star Ambulatory Assessment; OH, hydroxide; polyA, polyadenylation; rAAV, are transmissioned to the transmission of the recombinant adeno-associated virus; rAAVrh74, recombinant adeno-associated virus rhesus isolate serotype 74; SAE, serious adverse event; SD, standard deviation; SE, standard error; ssDNA, single-stranded DNA; SV95C, stride velocity 95th centile; TEAE eatment-emergent adverse event; TEAE, treatment-emergent adverse event; TR-SAE, treatment-related serious adverse event; TR-EAE, treatment-related treatment-emergent adverse event; TTR, Time to Rise; UAE, United Arab Emirates.

Post hoc analyses on TTR

- All patients had
- With delandist progressed to
- A TTR >5 second ambulation.14

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• The GST supported the totality of evidence of the beneficial effect of delandistrogene moxeparvovec on motor function and strongly indicated the presence of a functional treatment

• A post hoc analysis of TTR showed a marked difference in the proportion of delandistrogene moxeparvovec-treated patients progressing to a TTR >5 seconds, a prognostic marker for accelerated disease progression and earlier loss of ambulation.

Results (cont.)

Summary of functional endpoints Figure 4. Functional endpoints at Week 52 in the overall population Favors delandistroger noxeparvoved Delandistrogene LSM difference P-value* moxeparvovec Placebo (95% CI) Primarv NSAA **0.65** (-0.45 to 1.74) 0.2441 63 TTR 63 **-0.64** (-1.06 to -0.23) 0.0025 63 61 **-0.42** (-0.71 to -0.13) 0.0048 10MW 0.0402 **0.10** (0.00 to 0.19) **-3.29** (-8.28 to 1.70) 0.1942 **-0.36** (-0.71 to -0.01) 0.0412 Ascend 4 steps -1 0 1 2 3 4

Standardized statistics for the primary analysis (95% CI)

*Since the primary endpoint did not meet statistical significance, all *P*-values resulting from subsequent hierarchical testing are presented with no multiplicity adjustment (nominal). The widths of CIs have not been adjusted for multiplicity and cannot be used to infer definitive treatment effects LSMs (of change from baseline) and CIs were standardized by dividing by the SE. Negative values for timed function tests (TTR, 10MWR, 100MWR and time to ascend 4 steps) show an improvement in the time taken to achieve these endpoints. LSM differences are on original scale (without SE adjustment). Signs of timed function tests were reversed in the forest plot to align favorable directions among endpoints. Numerical results of LSM difference kept the original signs.



 Negative values indicate an improvement in the time taken to achieve these endpoints.

 The separation between groups was clinically relevant for both TTR and **10MWR**

Patients with TTR >5 seconds at Week 52		Deduction	
Delandistrogene moxeparvovec (n=63)	Placebo (n=61)	in odds	
3%	16%	91% (<i>P</i> =0.0135)	
	Patients with TTR >5 Delandistrogene moxeparvovec (n=63) 3%	Patients with TTR >5 seconds at Week 52Delandistrogene moxeparvovec (n=63)Placebo (n=61)3%16%	

TFTs such as TTR and 10MWR may be more sensitive measures of functional change in this age range and study duration.¹⁶

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Other secondary functional endpoint:



- SV95C is a digital objective endpoint of ambulatory performance in patients' normal daily environment
- Patients in EMBARK wore the device on each ankle for 3 weeks prior to the clinic visits
- The change from baseline met the published MCID by the EMA¹ EMBARK is the first randomized, placebo-controlled trial in DMD that showed clinical relevance to a therapy based on SV95C from a wearable device

*Since the primary endpoint did not meet statistical significance, all P-values resulting from subsequent hierarchical testing of endpoints are presented with no multiplicity adjustment (nominal). The widths of CIs have not been adjusted for multiplicity and cannot be used to infer definitive treatment effects. †A small number of patients did not have sufficient recorded hours at Week 52 for analysis

Other secondary functional endpoint: Supplementary Figure 2. Change from baseline to Week 52 in 100MWR



Negative values indicate an improvement in the time taken to achieve this endpoint

*Since the primary endpoint did not meet statistical significance, all P-values resulting from subsequent hierarchical testing of endpoints are presented with no multiplicity adjustment (nominal). The widths of CIs have not been adjusted for multiplicity and cannot be used to infer definitive treatment effects. †A small number of tests at either baseline or Week 52 were marked as invalid by the clinical investigator; the most common reason was due to behavior.

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Supplementary information

Other secondary functional endpoint

Supplementary Figure 3. Change from baseline to Week 52 in time to ascend 4 steps



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Abbreviations

10MWR, 10-meter Walk/Run; 100MWR, 100-meter Walk/Run; AAVrh74, adeno-associated virus rhesus isolate serotype 74; AE, adverse event; CI, towner, to-theet waterkan, toolmere waterkan, Averna, adverse event; Trans a sociated verse vent; Ct, Vi, intravenous; LSM, least-squares mean; NSAA, North Star Ambulatory Assessment; OH, hydroxide; polyA, polyadenytation; rAAV, recombinant adeno-associated virus; rAAV/hr74, recombinant adeno-associated virus thesus isolate serotype 74; SAE, serious adverse event; TAV, recombinant adeno-associated virus; splate strans and the virus thesus isolate serotype 74; SAE, serious adverse event; TSA, standard deviation; SE, standard error; splate, tracker, tracker, tracker, tracker, tracker, tracker, the memory adverse event; TEAE, tracker, t United Arab Emirates.

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Negative values indicate an improvement in the time taken to achieve this endpoint

The separation between groups was clinically relevant

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Sato, Takatoshi	Weng, Wen-Chin
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