



Endosomal Escape Vehicle (EEV™) Platform for Delivery of Oligonucleotides in Duchenne Muscular Dystrophy

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Chief Medical Officer

Entrada Therapeutics, Inc.

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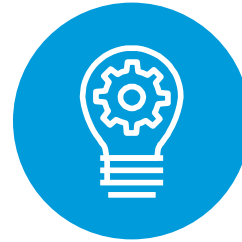
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Our Commitment

- Developing treatments for people living with serious diseases for which no or insufficient options currently exist
- Partnering with patient communities to ensure the perspectives of patients and their loved ones inform our research programs



Our Culture

- We are building a company culture where everyone can belong, contribute and grow
- Fostering a workplace environment that embraces diversity, equity and inclusion
- Prioritizing the experiences and perspectives of patients and their loved ones



Our Team

- ~130 employees with an experienced leadership team
- Recognized as a Top Place to Work by *The Boston Globe* and *BioSpace*
- Our team mirrors patient populations: 52% of our employees identify as women and 50% as racially or ethnically diverse

OUR COMMITMENT TO THE DUCHENNE COMMUNITY



Our partnerships with community leaders and patient advocacy organizations are at the heart of our work to bring innovative therapies to people living with devastating diseases

We appreciate the Duchenne community's deep experience participating in clinical trials and the work you have done to create a collaborative environment that is welcoming to novel research

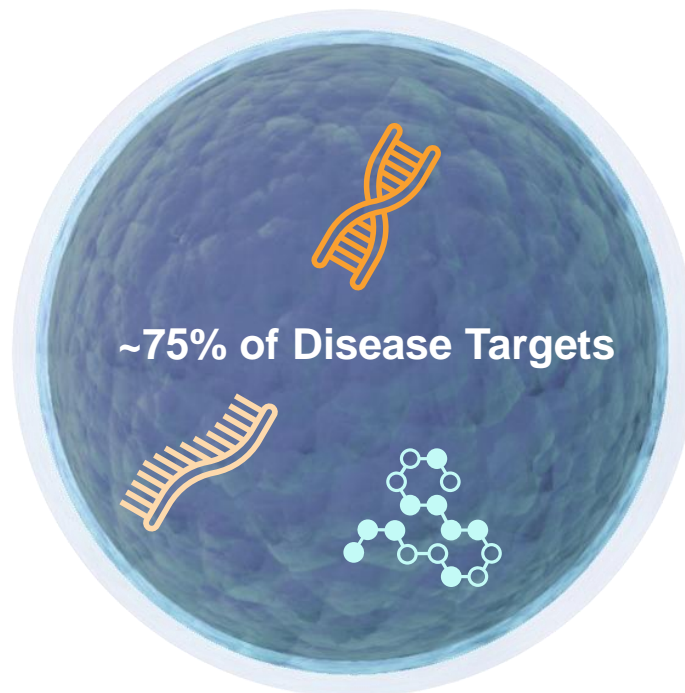
As we progress our Duchenne franchise from the lab to the clinic, we look forward to learning from the experiences of people and families living with Duchenne and to keeping you informed of our progress

PURSUING TREATMENT OPTIONS FOR PEOPLE LIVING WITH DUCHENNE

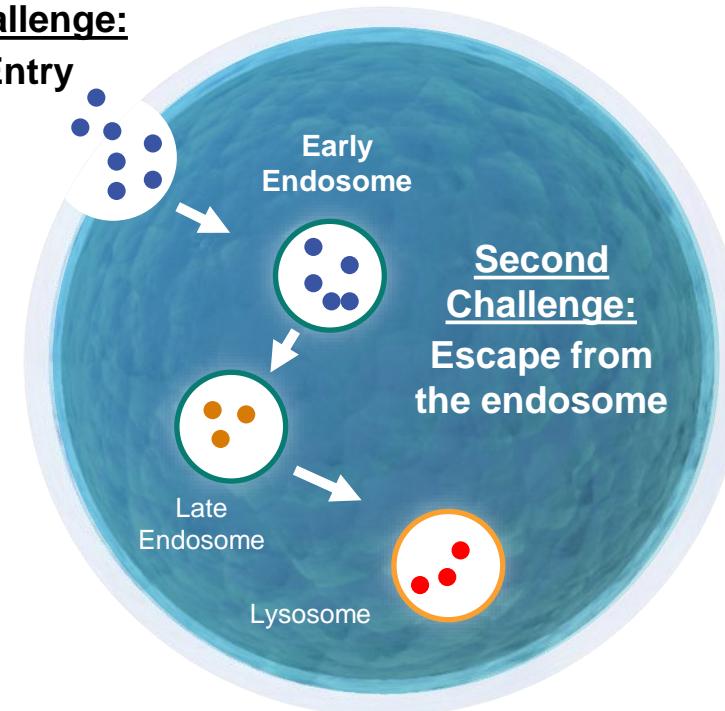
- ENTR-601-44 is a potential approach to treating individuals with Duchenne who are **exon 44 skipping amenable**
- Input from the Duchenne community guided our decision to select our first clinical candidate
- ENTR-601-45 is a potential approach to treating individuals with Duchenne who are **exon 45 skipping amenable**
- Discovery efforts underway for individuals with **exon 50 and 51 amenable mutations**

INTRACELLULAR THERAPEUTICS MAY PRESENT A SOLUTION

Approximately 75% of all disease-causing targets are within the cell and difficult to reach, representing a significant challenge when developing effective therapies



First Challenge:
Cell Entry

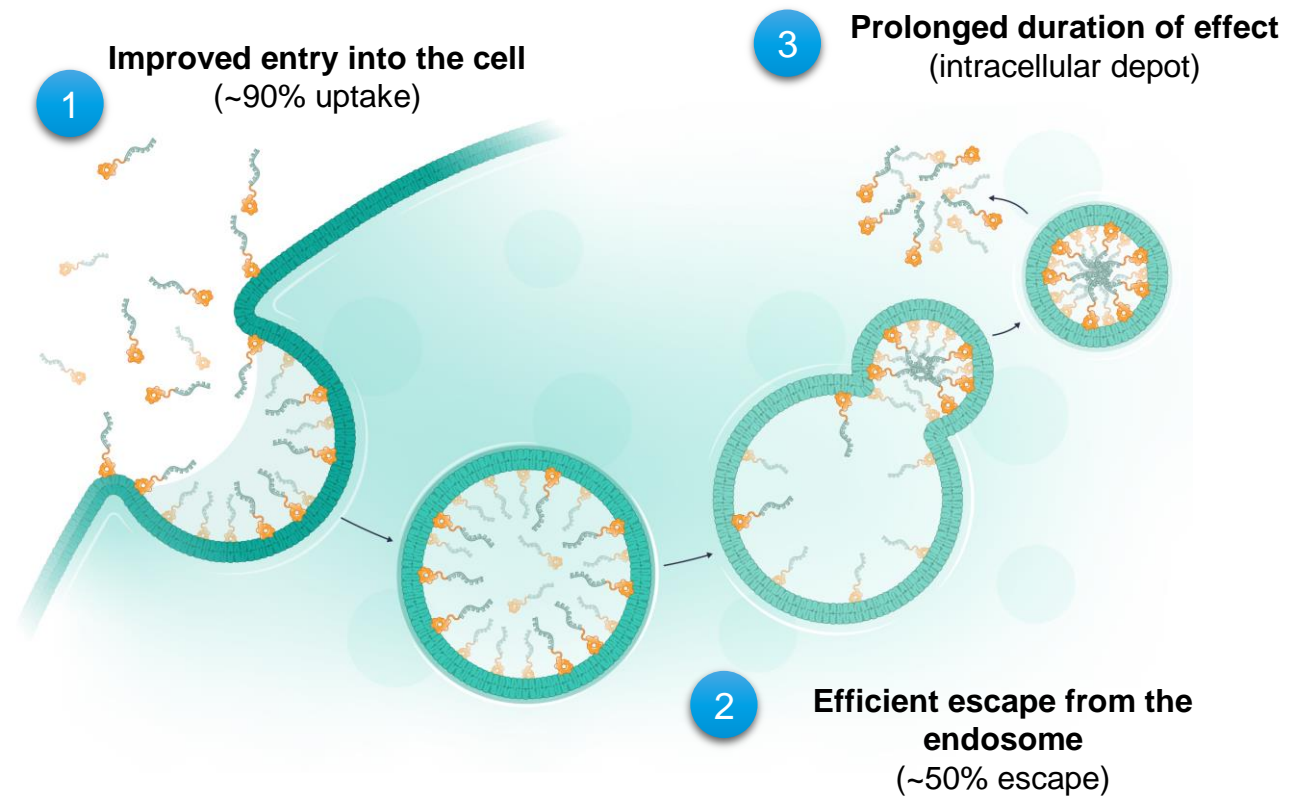


The Endosomal Escape Vehicle (EEV™) Platform aims to solve fundamental problems relating to the inability of medicines to: 1) enter the cell and 2) avoid the cell's natural clearing systems

OUR ENDOSOMAL ESCAPE VEHICLE (EEV™) PLATFORM

We are developing EEV-oligonucleotide conjugates for the treatment of Duchenne

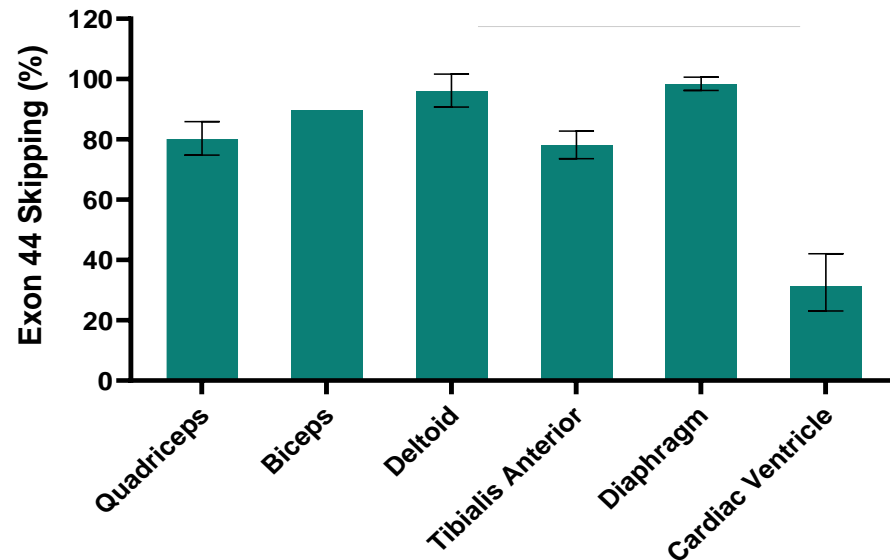
- EEV-oligonucleotide conjugates are cyclic peptides attached to oligonucleotides
- This unique chemistry results in **improved uptake into the cell and escape from the endosome** (the cell's natural clearing system)
- The cyclic structure of the peptide is designed to **extend half life and increase stability**
- In animal studies, we have observed that our EEV-oligonucleotide approach has **promoted enhanced exon skipping and dystrophin production**



ENTR-601-44 IS OUR EXON 44 SKIPPING CLINICAL CANDIDATE

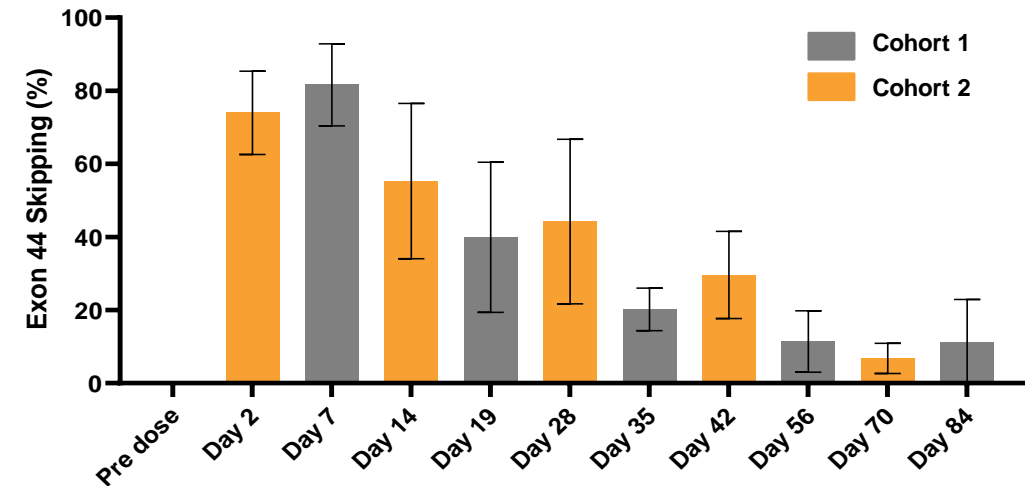
A single IV dose of ENTR-601-44 resulted in robust exon skipping in both skeletal and cardiac muscles in non-human primates (NHP), as well as prolonged duration of effect for at least 12 weeks

Exon Skipping in Muscles at Day 7



- 7 days after an intravenous (IV) infusion of 30 mg/kg (PMO equivalent), robust exon 44 skipping observed across different muscle groups isolated from the ENTR-601-44 treated NHP

Duration of Effect in Biceps for at Least 12 Weeks



- After an intravenous (IV) infusion of 35 mg/kg (PMO equivalent), robust exon 44 skipping observed in biceps in the ENTR-601-44 treated NHP (n=3 per cohort) for at least 12 weeks

PRECLINICAL DATA SUPPORT ADVANCEMENT OF ENTR-601-44 TO THE CLINIC

Results show:



Effective exon skipping seen in skeletal, diaphragm and heart muscles in animal models



Robust dystrophin production observed in skeletal muscle cells from patients living with Duchenne



Prolonged duration of effect, which may translate to administration of drug up to every 6 weeks

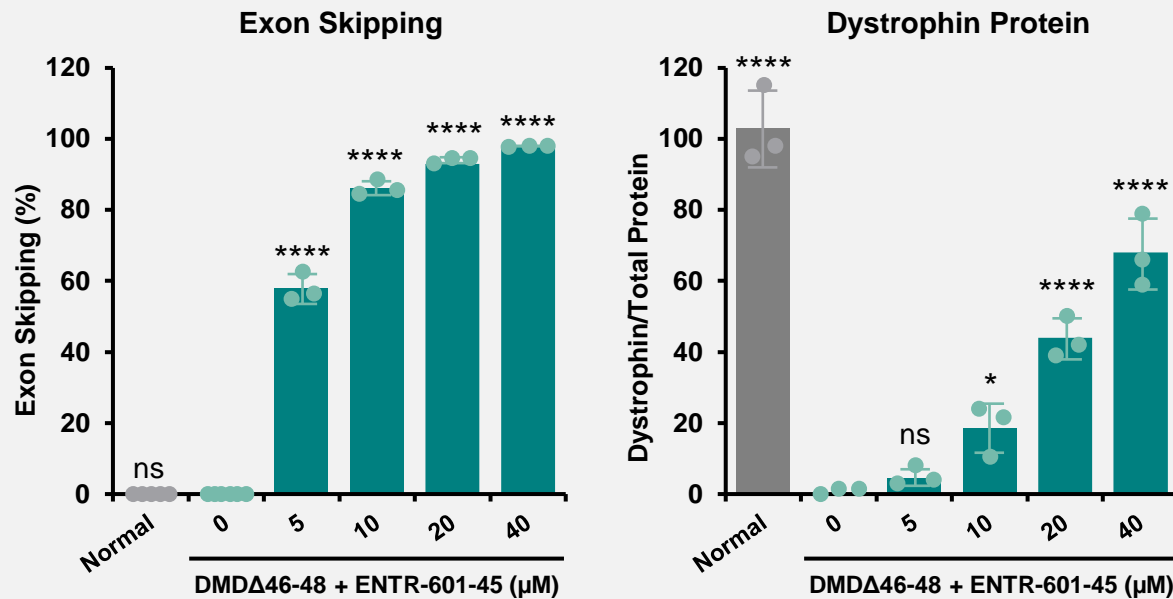
We are developing **ENTR-601-44** for the potential treatment of the roughly 7.5% of individuals with Duchenne who are **exon 44 skipping amenable**

*Following regulatory feedback and potential IND clearance.

ENTR-601-45 EFFECTIVE IN SKELETAL AND CARDIAC MUSCLE CELLS

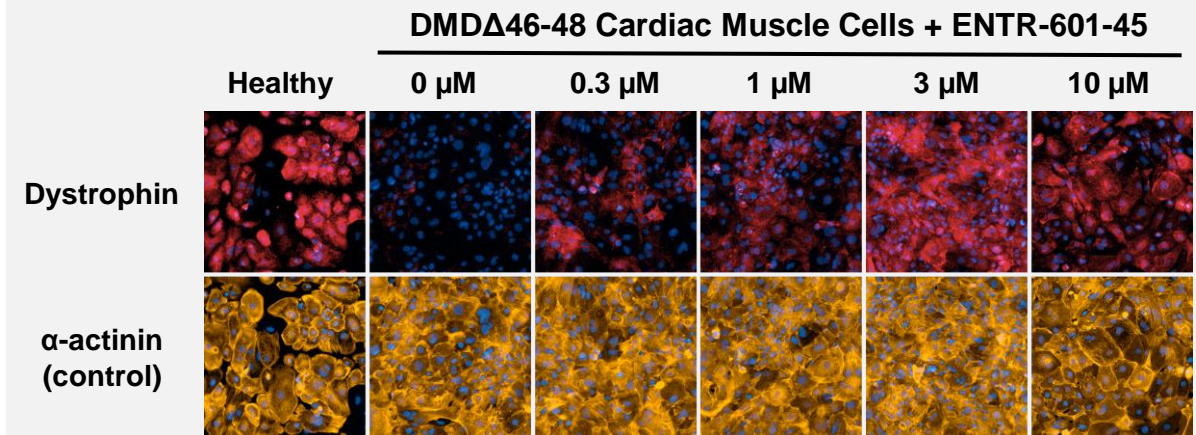
ENTR-601-45 showed robust exon skipping and dystrophin production in skeletal and cardiac muscle cells from patients living with Duchenne who are amenable to exon 45 skipping

ENTR-601-45 in Skeletal Muscle Cells



- Skeletal muscle cells from patients living with Duchenne who are amenable to exon 45 skipping were treated with ENTR-601-45 for 24 hours and analyzed 5 days later

ENTR-601-45 in Cardiac Muscle Cells



- Cardiac muscle cells from patients living with Duchenne who are amenable to exon 45 skipping were treated with ENTR-601-45 for 24 hours and analyzed 48 hours later

Entrada lead programs are advancing new therapeutic options for people living with exon 44 and exon 45 skip amenable Duchenne

- **ENTR-601-44 produced robust exon skipping and dystrophin production in cell and animal models of Duchenne**
 - We observed robust exon skipping over 12+ weeks from a single injection of ENTR-601-44 in non-human primates
 - Entrada received a clinical hold notice from the FDA regarding our investigational new drug (IND) application for ENTR-601-44 in December 2022
 - Entrada plans to share additional updates pending further communications with the Agency
- **ENTR-601-45 IND filing is planned for H2 2024**
 - ENTR-601-45 showed robust exon skipping and dystrophin production in cardiac and skeletal muscle cells from people living with Duchenne
 - High levels of exon skipping were measured in hDMD mouse heart and skeletal muscle
- **Discovery efforts underway for individuals with exon 50 and 51 amenable mutations**

THANK YOU FROM OUR WHOLE TEAM

Please visit us during the exhibitor showcase later this afternoon!



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For questions, contact:
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