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THERAPEUTICS

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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 the Company's strategy, future operations, prospects and plans, objectives of management, the validation and differentiation of Entrada's approach and EEV platform and its ability to provide a potential treatment for patients, expectations regarding the Company's planned Phase 1/2 multiple ascending dose clinical studies of ENTR-601-44, -45, and -50, including their initiation in the UK in 2025, expectations regarding significant accumulation of exon skipping and dystrophin production in patients, expectations regarding the importance of endosomal escape to the rapeutic index optimization, the translatability of the data from the Phase 1 clinical study for ENTR-601-44 to our planned DMD clinical studies, expectations regarding the ability of the Company's preclinical studies and clinical studies to demonstrate safety and efficacy of its therapeutic candidates, and other positive results, expectations regarding the approvals and specific protocols for the Company's planned Phase 1/2 clinical studies for ENTR-601-44, -45, and -50, the timing of regulatory filings for the planned Phase 1/2 clinical studies for ENTR-601-50 in the second half of 2025 and ENTR-601-51 in 2026, the ability to recruit for, enroll, and complete a global Phase 1/2 study for ENTR-601-44, -45, -50, and -51, the ability to recruit for, enroll, and complete a Phase 1b study for ENTR-601-44 in the US, the potential of its EEV product candidates and EEV platform, including the potential for ENTR-601-44, -45, -50, and -51 to be transformative treatment options, the continued development and advancement of ENTR-601-44, -45, -50, and -51 for the treatment of Duchenne and the partnered product VX-670 for the treatment of myotonic dystrophy type 1, and the sufficiency of the Company's cash resources extending into 2027, constitute forward-looking statements within the meaning of The Private Securities Litigation Reform Act of 1995. The words "anticipate," "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. The Company 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 conduct of research activities and the initiation and completion of preclinical studies and clinical studies; uncertainties as to the availability and timing of results from preclinical and clinical studies; timing of and expectations regarding the Company's ability to submit and obtain regulatory authorization and initiate clinical studies; whether results from preclinical studies will be predictive of the results of later preclinical studies and clinical studies; whether earlier clinical data will be predictive of later clinical data; our ability to establish and maintain collaborations or strategic relationships; whether the Company's cash resources will be sufficient to fund the Company's foreseeable and unforeseeable operating expenses and capital expenditure requirements; as well as the risks and uncertainties identified in the Company's filings with the SEC, including the Company's most recent Form 10-K and in subsequent filings the Company may make with the SEC. In addition, the forward-looking statements included in this presentation represent the Company's views as of the date of this presentation. The Company anticipates that subsequent events and developments will cause its views to change. However, while the Company 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 the Company's views as of any date subsequent to the date of this presentation.



OUR MISSION:

To Treat
Devastating
Diseases With
Intracellular
Therapeutics





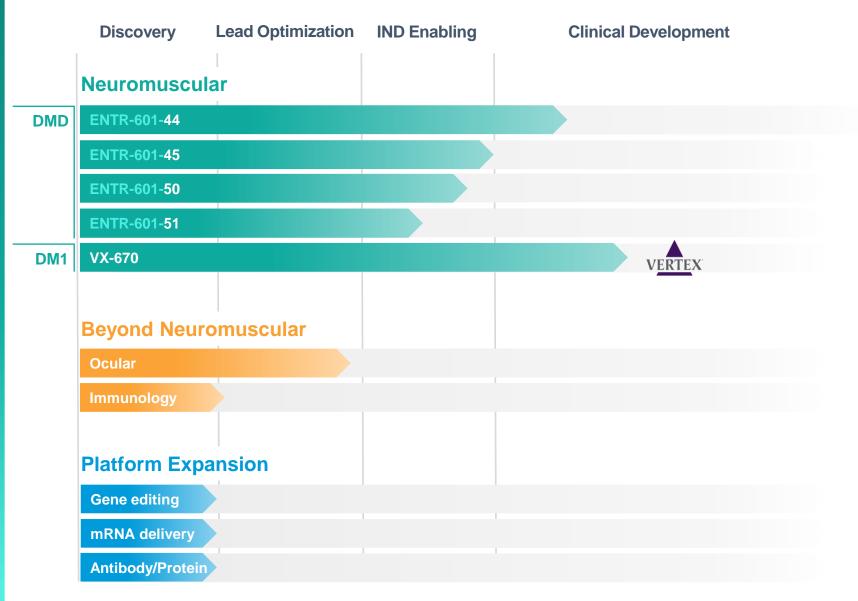


An Expanding Pipeline of Intracellular Therapeutics

Entrada's pipeline includes a diverse array of high potential and high value assets

Each target disease has a substantial patient population with a significant unmet medical need







EEVTM PLATFORM

ENDOSOMAL ESCAPE VEHICLE (EEVT)-BASED THERAPIES CONTRODO



Unique chemistry

Improved uptake and endosomal escape

Cyclic structure

Extended half-life and increased stability

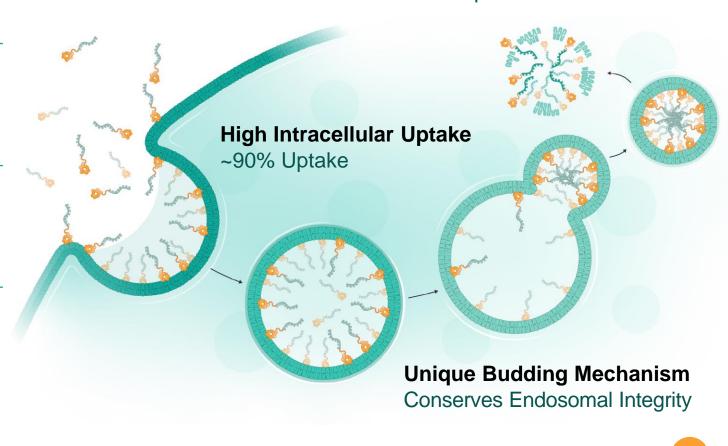
Phospholipid binding

Broad biodistribution to all cells

Consistent and predictable pharmacokinetics

Same EEV used across initial programs

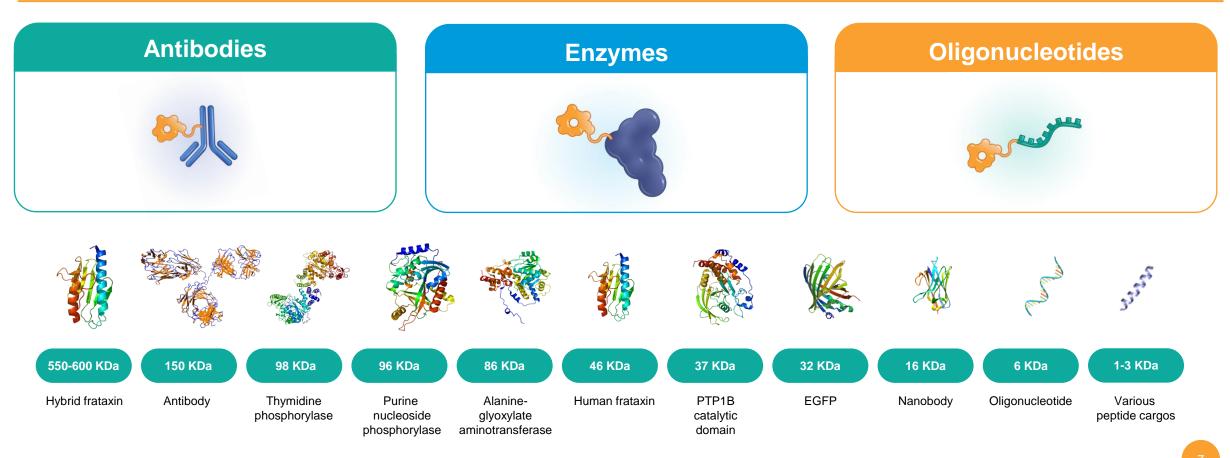
Efficient Endosomal Escape ~50% Escape vs. ~2% Standard



A BROADLY APPLICABLE PLATFORM



Entrada has demonstrated intracellular uptake of unique moieties ranging from 1 kDa to 600 kDa

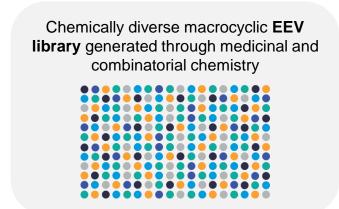


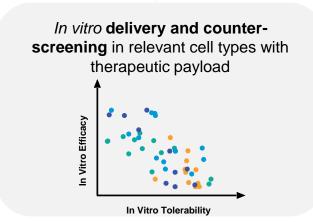
DISCOVERY ENGINE FOR EEV THERAPEUTICS EEV-OLIGO EXAMPLE

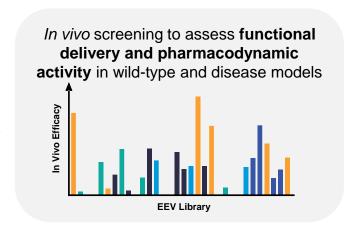


Fit-for-purpose EEVs can be designed for target indications and modalities via iterative optimizations of EEV peptides through medicinal chemistry, *in vitro* and *in vivo* screenings





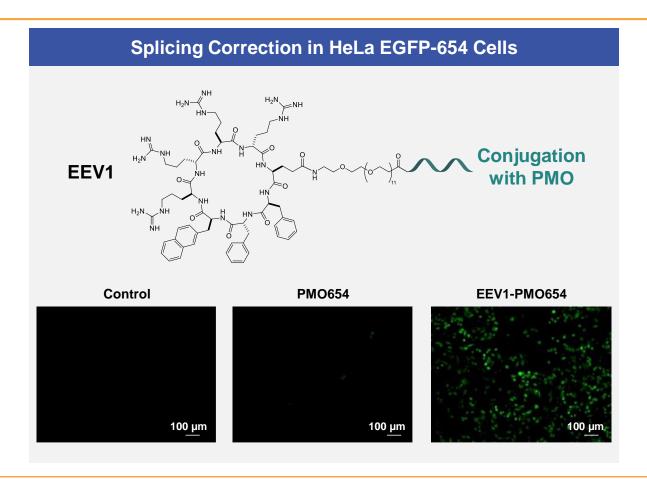


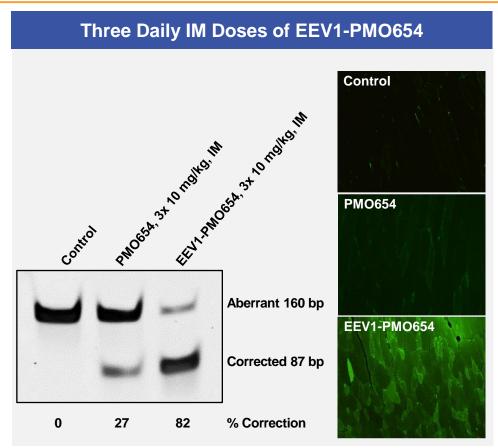


OLIGO DELIVERY WITH FIRST GENERATION EEV



A first-generation EEV1 peptide-PMO construct enhanced splice correction *in vitro* and after local injection, demonstrated functional delivery of oligonucleotides





EEV1 EXAMPLE

ENHANCED OLIGONUCLEOTIDE DELIVERY EEV2 EXAMPLE



The addition of an exocyclic peptide sequence to a first-generation EEV1 peptide improved exon skipping in skeletal and cardiac muscle of *mdx* mice after intravenous injection

Structure of EEV2 Construct EEV1 + exocyclic peptide sequence = EEV2 To create the EEV2 construct, EEV1 was modified to include an exocyclic peptide sequence to improve delivery to the nucleus

mdx mice were evaluated for exon skipping (via RT-PCR)
 7 days following a single 20-mg/kg IV injection of saline,
 PMO-23, EEV1-PMO-23, or EEV2-PMO-23

Diaphragm

Quadriceps

Transverse Abdominis

Heart

OPTIMIZATION OF EEV FOR MUSCLE DELIVERY

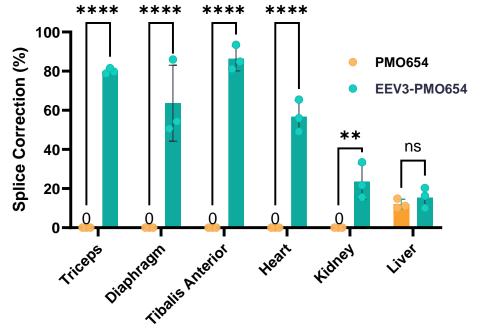




Rational substitution of cationic residues with a surrogate results in robust functional delivery to skeletal and cardiac muscle

EEV3-PMO654 Structure and Medicinal Chemistry **Conjugation with PMO Exocyclic peptide sequence** with extended linker Substitution of positively charged arginine residues with neutral charged citrullines

Enhanced Functional Delivery to Muscle



 EGFP654 mice were evaluated for splice correction 7 days following three weekly 10 mg/kg IV injections of PMO654 or EEV3-PMO654

TRANSLATION FROM UPTAKE TO OUTCOMES



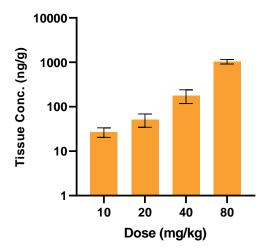


EEV-therapeutic candidates have demonstrated favorable pharmacological properties: efficient intracellular delivery, significant uptake in target tissues and potent pharmacodynamic outcomes

Tissue Uptake in Muscle



- Skeletal muscle
- Cardiac muscle

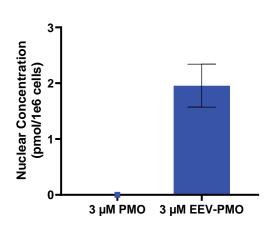


IV, hDMD mice, 5-day post injection

Intracellular Delivery



- Endosomal escape
- ✓ Nuclear localization

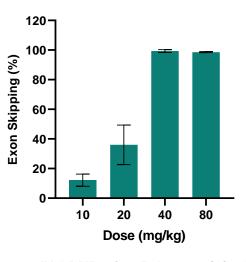


24-hour incubation

Pharmacodynamic Outcome



- Rapid, dose-dependent response
- ✓ Duration of at least 12 weeks



IV, hDMD mice, 5-day post injection



DUCHENNE MUSCULAR DYSTROPHY

SIGNIFICANT THERAPEUTIC NEED EXISTS WITHIN A VALIDATED DUCHENNE MARKET



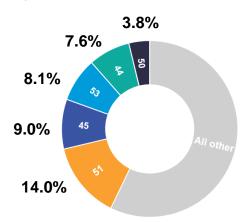
Duchenne is caused by mutations in the *DMD* gene, which lead to a lack of functional dystrophin, causing progressive loss of muscle function throughout the body

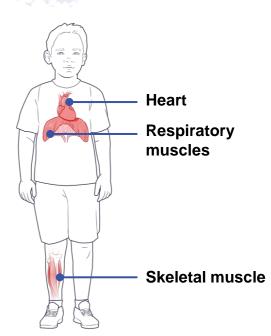
Exon skipping therapeutics have been approved based on modest improvement in dystrophin levels ranging from ~1% to 6%⁴⁻⁷

Approximately 41,000 people in the U.S.¹ and in Europe² have Duchenne

>40% of patients with Duchenne³

have mutations amenable to exon skipping of exons 44, 45, 50, 51 and 53





Patients with Duchenne Pre-mRNA With exon deletion Splicing **mRNA** Reading frame disrupted Translation Resultant incomplete mRNA sequence abolishes the

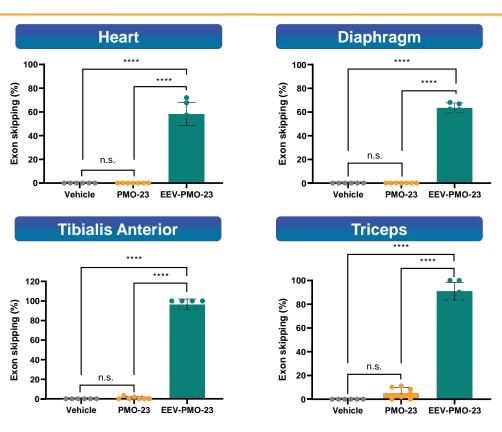
EEV-Oligonucleotide Approach Pre-mRNA With oligonucleotide Splicing **mRNA** Reading frame restored Translation **Protein** Truncated, but functional, dystrophin proteir

EEV-PMO RESTORES MUSCLE INTEGRITY

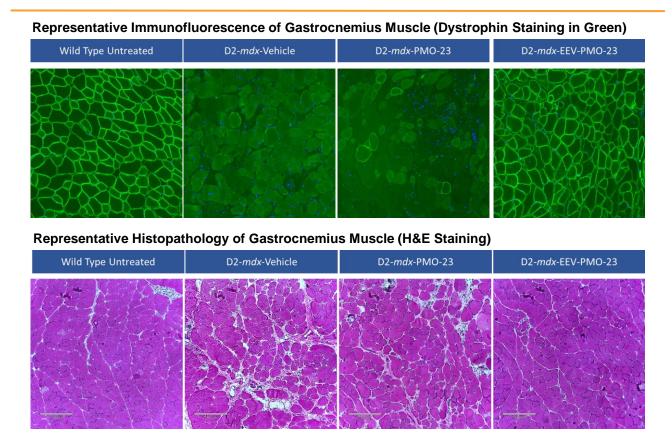
D2-mdx Mice



Robust exon 23 skipping after four monthly IV doses of EEV-PMO-23 in D2-*mdx* mice



Broad dystrophin expression and restoration of muscle integrity after four monthly IV doses of EEV-PMO-23 in D2-*mdx* mice

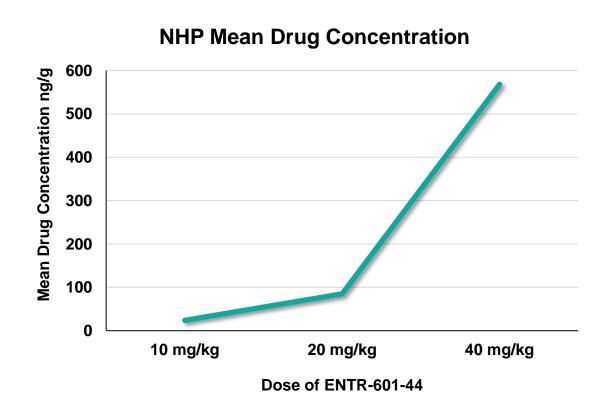


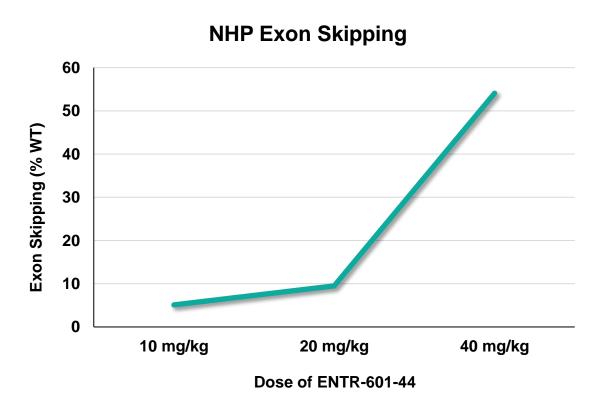
• D2-mdx mice (male, n=6-7) were treated with 4 monthly doses of either vehicle, 20 mg/kg PMO-23 or 20 mg/kg PMO-23 equivalent of EEV-PMO-23, and the data were collected ~4 weeks after the last dose

DOSE-DEPENDENT PK/PD IN NHP



NHP data demonstrated exponential increases at higher doses; A close correlation between drug concentration and exon skipping was observed*



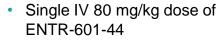


CONSISTENT AND DURABLE EFFICACY OF EEV-PMO WAS DEMONSTRATED ACROSS SPECIES

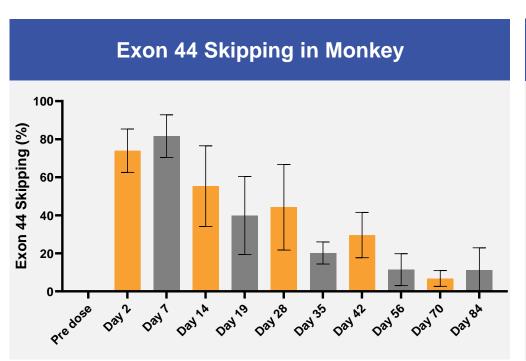


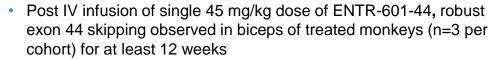
Significant potential for patient benefit is supported by ENTR-601-44 data in the mouse and the NHP at clinically relevant levels; *in vitro* data suggest higher target engagement in patient cells

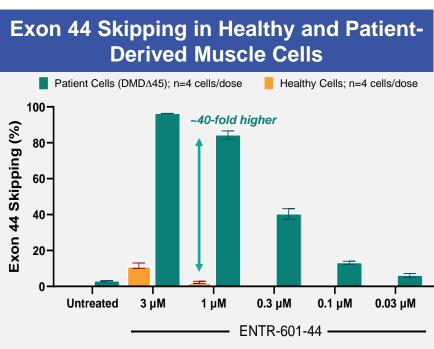
Exon 44 Skipping in hDMD Mouse 1007 (%) 80(%) 80(%) 40(%) 40(%) 40(%) 40(%) 80(



Tibialis Anterior







 Robust dose-dependent exon 44 skipping was observed in DMD patient-derived muscle cells harboring an exon 44 skip-amenable mutation

ENTR-601-44 IN HEALTHY HUMAN SUBJECTS



Study ENTR-601-44-101 met all study objectives and supports further evaluation of ENTR-601-44 in patients with Duchenne muscular dystrophy amenable to exon 44 skipping

Healthy male volunteers were randomized to receive ENTR-601-44 (n=25) or placebo (n=8)

- Single IV dose of 0.75,
 1.5, 3.0, or 6.0 mg ENTR-601-44
- 24 of 25 ENTR-601-44treated subjects completed study (physician's decision; not AE-related)

Favorable safety and tolerability profile of ENTR-601-44

- No AEs related to study drug
- No severe or serious AEs were reported in any dose group throughout the study
- No adverse findings or clinically relevant changes to any biomarkers of renal toxicity at the highest dose tested (6 mg/kg)

Exon 44 skipping in skeletal muscle indicates significant target engagement

- Statistically significant DMD exon 44 skipping was observed with a single IV dose of 6 mg/kg ENTR-601-44
- Dose-dependent concentrations of the final PMO-44 metabolite in skeletal muscle were observed in the 3 and 6 mg/kg dose groups

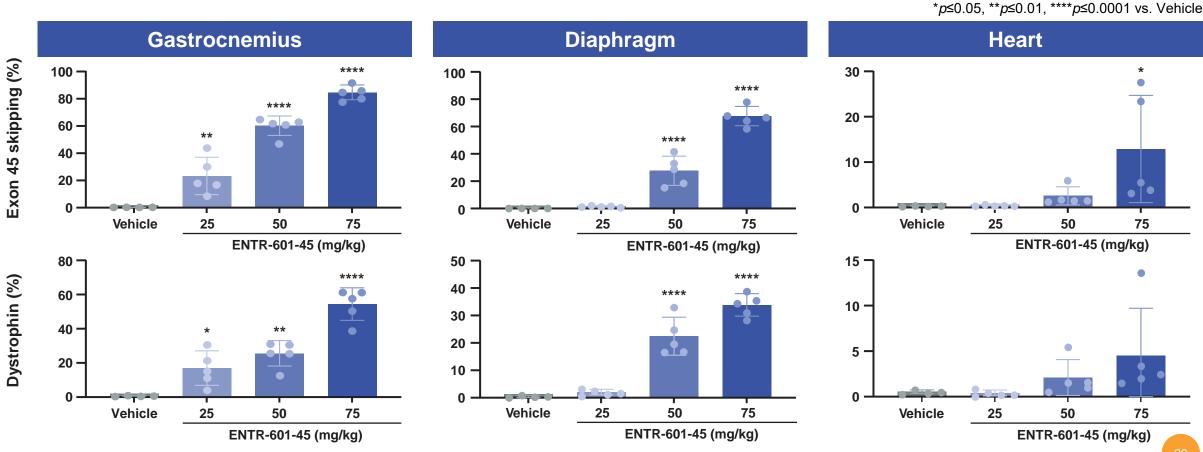


ENTR-601-45

ENTR-601-45 EFFICACY IN del44hDMD.mdx MICE



Three Q6W doses of ENTR-601-45 produced robust human *DMD* exon 45 skipping and dystrophin production 6 weeks after the third dose



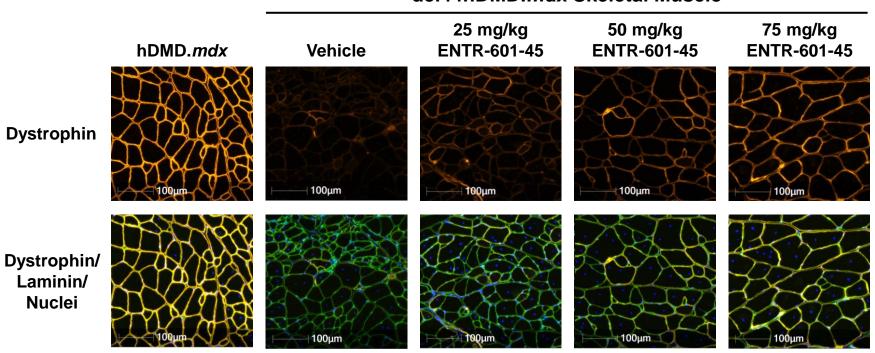
DYSTROPHIN LOCALIZATION WITH ENTR-601-45 IN del44hDMD.mdx Mice

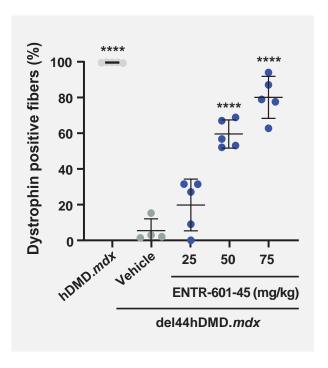


ENTR-601-45 produced dose-dependent increases in dystrophin-positive muscle fibers localized to the sarcolemma of del44hDMD. *mdx* mice 6 weeks following the third Q6W dose

*****p*≤0.0001 vs. Vehicle

del44hDMD.mdx Skeletal Muscle



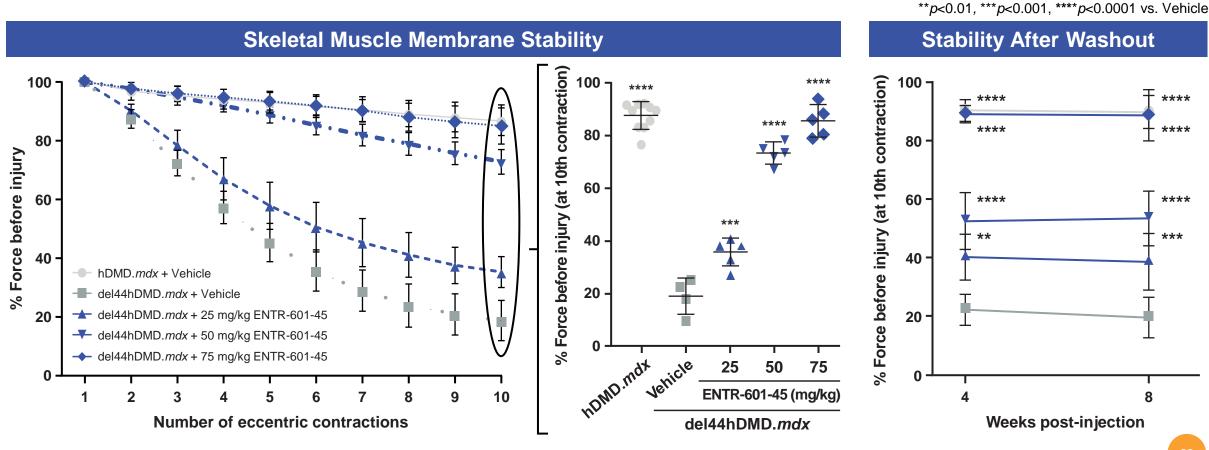


• del44hDMD. mdx mice were treated with three Q6W IV injections of ENTR-601-45 or vehicle. Dystrophin protein distribution and cellular localization was analyzed by immunofluorescence in the gastrocnemius 6 weeks after the final dose.

ENTR-601-45 IMPROVES MUSCLE FUNCTION IN del44hDMD.mdx Mice



A dose-dependent increase in resistance to membrane damage was observed following the tenth contraction, which was maintained until at least 8 weeks after the third Q6W dose of ENTR-601-45



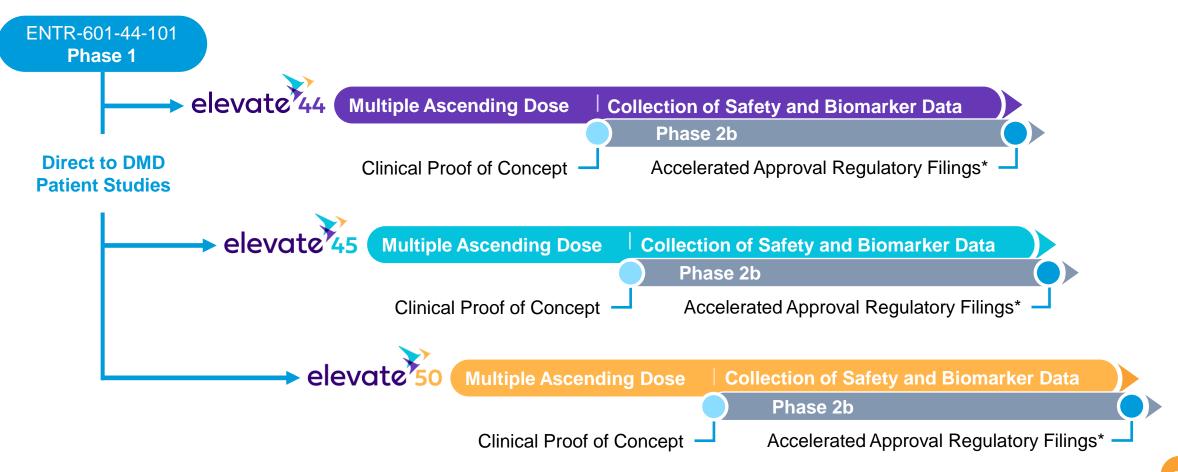


DMD CLINICAL DEVELOPMENT PLAN

CLINICAL STRATEGY IS DESIGNED FOR EFFICIENT REGULATORY PATH



All ENTR-601-series programs will follow a similar clinical and regulatory approach





PLATFORM EXPANSION

MULTIPLE PIPELINE EXPANSION OPPORTUNITIES



Entrada's flexible approach to intracellular therapeutics enables pipeline expansion by leveraging new moieties and by targeting additional therapeutic areas

TARGET







APPROACH

Gene
Editing

RNA
Editing

RNA Splicing

RNA Blocking

RNA Silencing

Protein Replacement

Protein Inhibition

Protein Degradation

GOAL

Deliver CRISPR enzyme and repair gene function with guide RNA Deliver oligonucleotide therapeutics for RNA editing Modify RNA via exon/intron splicing to activate protein expression Block trinucleotide repeats in RNA to inhibit adverse binding Silence or knockdown RNA to prevent protein expression Replace proteins and enzymes

Inhibit protein signaling pathways

Degrade disease-causing proteins

