



Parent JOINTHEFICHT.
Project ENDOUCHENNE.
Muscular
Dystrophy

### Larry W. Markham, MD

Professor, Pediatrics and Medicine Indiana University School of Medicine Chief, Division of Pediatric Cardiology Riley Hospital for Children at IU Health

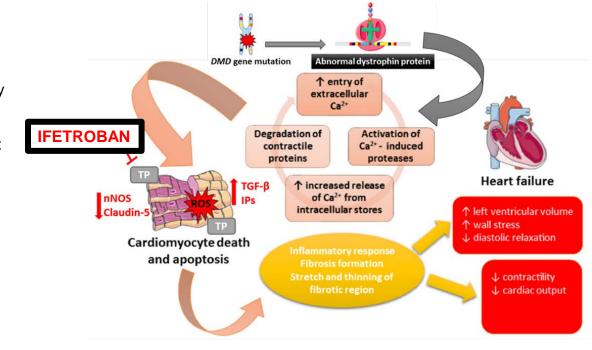
June 30, 2023

## **Disclosures**

- No direct financial conflicts or disclosures
- PI for the clinical trial

#### Ifetroban

- Ifetroban prevents fibrosis & inflammation by blocking thromboxane receptor signaling
- Ifetroban increased survival & cardiac output in severe pre-clinical mouse DMD models
- Safety is well established with nearly 1,400 clinical trial participants dosed in nearly 30 clinical studies
- A dime-size, once daily, oral medication taken in a fasted state



**Phase 2 Objective:** Evaluate efficacy, safety and PK of ifetroban in DMD through daily, oral ifetroban/placebo for 12 months; 2/3 of subjects randomized to ifetroban

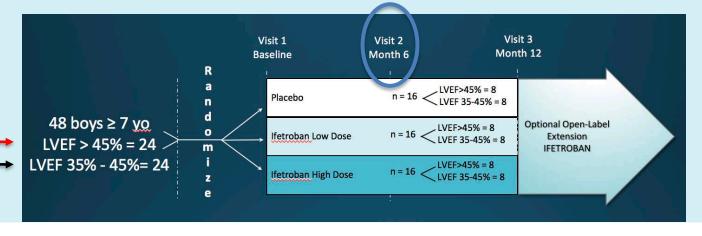


# FIGHT DMD Trial Design

Early-stage Cohort

Enrollment closed —

Late-stage Cohort —



### **Study Timeline**

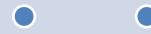
October 2020

First patient enrolled

#### February 2023

Early-stage cohort enrollment completed!

Goal: Complete late-stage cohort enrollment by end of 2023





Initial safety analysis completed

#PPMDConference



Interim safety and efficacy analysis underway



# Baseline Characteristics: First 25 patients who completed 6 months of treatment

Treatment Group	t Group High-Dose* Low- Ifetroban Ifeti		Placebo
Number of patients	9	8	8
Ambulatory, N (%)			
Yes	2 (22)	3 (38)	3 (38)
No	7 (78)	5 (62)	5 (62)
Ventilator Support, N (%)			
Yes	2 (22)	2 (25)	0
No	7 (78)	6 (75)	8 (100)
Stage of DMD, N (%)			
Early Stage (LVEF >45%)	6 (67)	7 (88)	8 (100)
Late Stage (LVEF 35-45%)	3 (33)	1 (12)	0
Background Therapy, N (%)			
No Background Therapy	2 (22)	1 (13)	1 (13)
Steroids	4 (45)	5 (62)	4 (50)
Steroids + ASO	3 (33)	2 (25)	3 (37)

<sup>\*</sup>Low dose ifetroban: < 35 kg 50 mg/day, > 35 kg 100 mg/day High dose ifetroban: < 35 kg 150 mg/day, > 35 kg 300 mg/day







### Safety: 25 Patients at 6 months

Treatment Group	High-Dose Ifetroban 9	Low-Dose Ifetroban 8	Placebo 8
Number of patients			
Summary of Adverse Events, N (%)			
Patients with any Adverse Event (AE)	7 (78)	5 (62)	8 (100)
Patients with a Serious Adverse Event (SAE)	2 (22)	1 (13)	2 (25)
AEs Leading to Withdrawal	0	0	1 (13)
Deaths	0	0	0
Most Frequent Adverse Events, N (%)			
Nausea	2 (22)	1 (13)	3 (38)
Vomiting	2 (22)	1 (13)	2 (25)
Viral infection	4 (44)	1 (13)	2 (25)
Headache	2 (22)	0	3 (38)





### **Efficacy: 25 Patients at 6 months**

Treatment Group	High-Dose Ifetroban	Low-Dose Ifetroban	Placebo	
Number of patients	9	8	8	
Pediatric Quality of Life	No difference at 6 months			
Pulmonary Function Tests	No difference at 6 months			
Quantitative Muscle Testing				
Arm QMT, Change at 6 months*	$0.68 \pm 5$	1.7 ± 7.6	3.1 ± 6.5	
Leg QMT, Change at 6 months*	-2.4 ± 10.0	$7.0 \pm 6.7$	0.28 ± 11.6	
Cardiac MRI	Analysis in progress			



\*Mean  $\pm$  standard deviation



### **Summary and Conclusions:**

- Both low-dose and high-dose ifetroban are well-tolerated in the first 25
   DMD patients to complete 6 months of treatment
- Interim analysis first 25 subjects to complete Month 6 visit ongoing:
  - QoL surveys and pulmonary function tests no significant trend
  - Leg QMT demonstrates positive trends within low-dose ifetroban
  - Cardiac MRI analyses in progress
- Early-stage cohort met enrollment goal and anticipated to complete 12 months of treatment later this year
- Late-stage cohort still enrolling protocol changes underway to address this cohort's needs: CMR at M6 optional; LVEF 35-45% prior to enrollment





### **ACKNOWLEDGEMENTS**

- DMD Families and Study Participants
- Erica Carrier, PhD
- James West, PhD
- Jon Soslow, MD
- Kim Crum, RN
- Terry, Sonya, Jonah & Emory Marlin
- FDA Orphan Product Division
- Parent Project Muscular Dystrophy











ClinicalTrials.gov Identifier: NCT03340675
FightDMDtrial.com • fightdmd@cumberlandpharma.com