



Edasalonexent: An NF- κ B Inhibitor in Phase 3 Development for Patients with Duchenne Muscular Dystrophy

Joanne Donovan, MD, PhD

Chief Medical Officer, Catabasis Pharmaceuticals, Cambridge, MA

Duchenne UK Information Day for Parents and Caregivers
Saturday 28th September 2019

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This presentation contains forward-looking statements within the meaning of The Private Securities Litigation Reform Act of 1995, including statements regarding our expectations and beliefs about our business, future financial and operating performance, clinical trial plans, product development plans and prospects, including statements about future clinical trial plans including, among other things, statements about our single global Phase 3 PolarisDMD trial in Duchenne muscular dystrophy, or DMD, to evaluate the efficacy and safety of edasalonexent for registration purposes, our plans to continue to evaluate data from the open-label extension of our MoveDMD® clinical trial and from our GalaxyDMD open-label extension trial of edasalonexent for the treatment of DMD, and our plans to combine edasalonexent treatment with other DMD treatments such as gene therapy and other dystrophin-targeted approaches. The words “believe”, “anticipate”, “plans,” “expect”, “could”, “should”, “will”, “would”, “may”, “intend” and similar expressions are intended to identify forward-looking statements, although not all forward-looking statements contain these identifying words.

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Joanne Donovan is an employee of and stockholder in Catabasis Pharmaceuticals, Inc.

Edasalonexent is an investigational agent that is not approved in any territory.

Edasalonexent: An NF- κ B Inhibitor in Development for DMD



Results from the
Phase 2 MoveDMD trial and
open-label extension



An update on the currently
enrolling global Phase 3
PolarisDMD trial



An introduction to the open-
label extension GalaxyDMD
trial

Edasalonexent: Potential to Slow Disease Progression for All Those Affected by Duchenne

- ▶ Being developed as a new oral foundational therapy for all patients with Duchenne, regardless of mutation type.
- ▶ Edasalonexent is an NF- κ B inhibitor. It is not a steroid
- ▶ Being developed for treatment alone as well as with dystrophin-targeted therapies
- ▶ In the Phase 2 MoveDMD trial and open-label extension, edasalonexent substantially slowed disease progression compared to off-treatment control period
- ▶ Phase 3 PolarisDMD trial ongoing
- ▶ Edasalonexent is an investigational agent not currently approved in any territory



Edasalonexent: Potential for Broad Therapeutic Benefit

Activated NF- κ B leads to disease progression in DMD

Skeletal Muscle

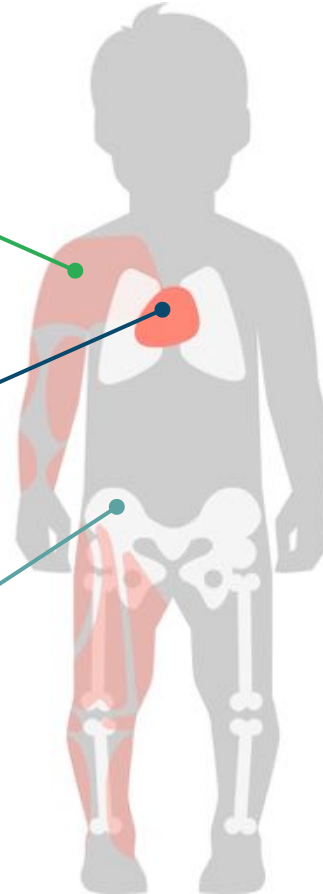
Loss of ambulation, upper limb function, respiratory failure

Heart

Cardiomyopathy

Bone

Fractures



Vision for Edasalonexent, an NF- κ B inhibitor



Goal: Improve
skeletal muscle function



Goal: Preserve
cardiac function



Goal: Reduce
risk of fractures

NF- κ B is a key link between loss of dystrophin and disease pathology; it plays a fundamental role in the initiation and progression of skeletal muscle, respiratory and cardiac disease in DMD

Edasalonexent: An NF-κB Inhibitor in Development for DMD



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Design of MoveDMD, a Phase 2 Trial with Open-Label Extension

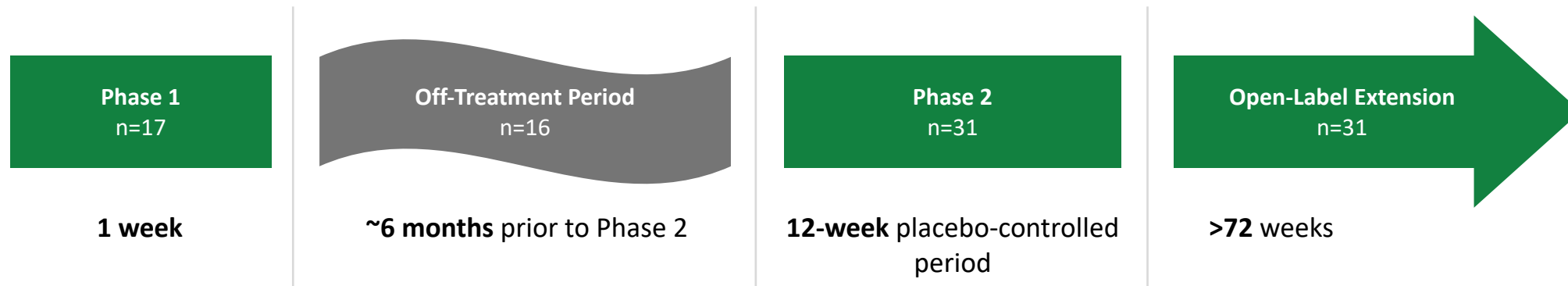


▶ Study Objectives

- Proof of concept using MRI to assess changes in muscle health
- Long-term study to enable Phase 3

▶ Key Inclusion / Exclusion criteria

- Age 4 to 7 (up to 8th birthday) not on corticosteroids for at least 24 weeks



▶ Analysis Plan

- 12-week placebo control period
- **Comparison of rates of change during off-treatment control and edasalonexent treatment periods**

Range of Endpoints to Demonstrate Proof of Concept and Support Design of Phase 3



NF-κB Target Engagement	Biomarkers	Muscle MRI	Functional
<ul style="list-style-type: none">▶ Inhibition of NF-κB targeted gene set in peripheral blood	<ul style="list-style-type: none">▶ CRP, biomarker of inflammation▶ Muscle enzymes	<ul style="list-style-type: none">▶ MRI T2 of upper and lower leg▶ MRS muscle fat	<ul style="list-style-type: none">▶ North Star Ambulatory Assessment and Timed Function Tests

Key Functional Assessments Performed During Clinic Visits



North Star Ambulatory Assessment

Assessment measures —
from most to least difficult

Hop right leg	Climb box step right
Hop left leg	Climb box step left
Stand on heels	Stand on one leg right
Rise from floor	Stand on one leg left
Run	Get to sitting
Jump	Rise from chair
Lift head	Walk
Descend box step right	Stand
Descend box step left	

How measures are scored:

2 Can perform

1 Can perform
with difficulty

0 Unable to
perform

Timed Function Tests



10-meter walk/run

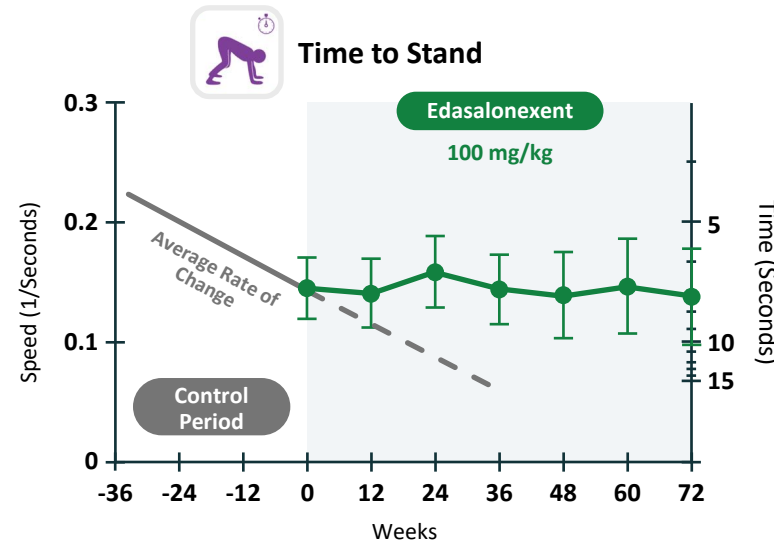
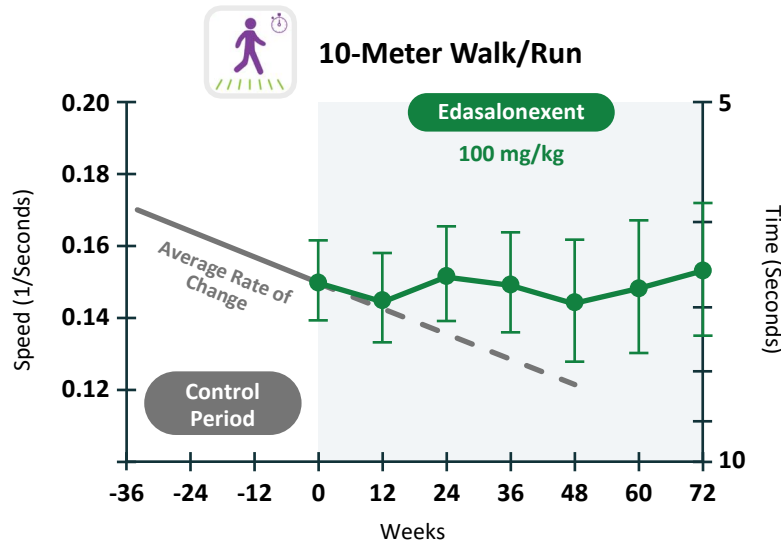
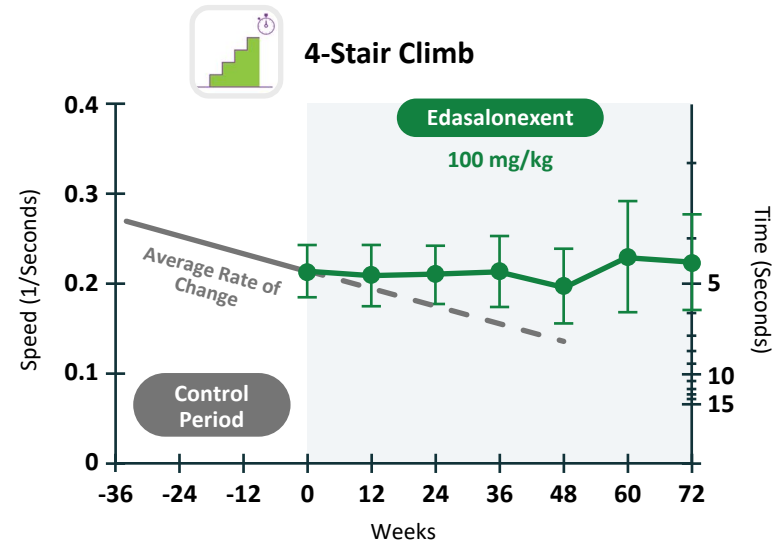
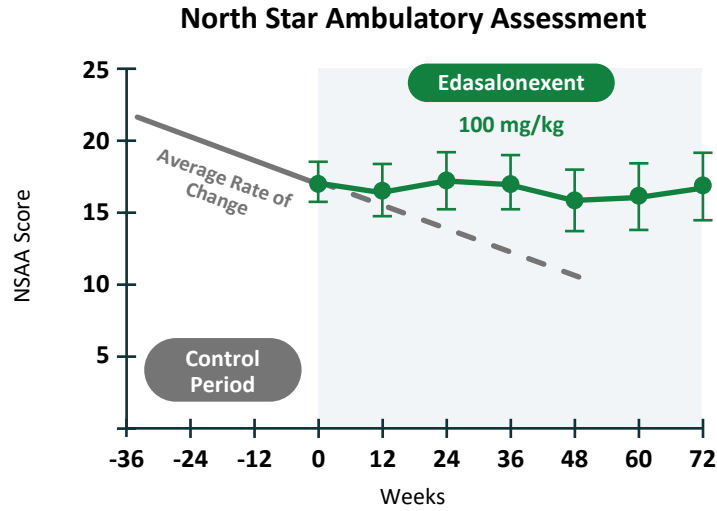


4-stair
climb



Time to rise
from supine

In Phase 2 MoveDMD Trial and Open-Label Extension: All Assessments of Function Stabilized on Edasalonexent Compared to Off-Treatment Control



Means ± SEM shown. Includes data of all boys initially started on 100 mg/kg dose (n=16) with 11 boys participating through 72 weeks.

Safety: Edasalonexent Has Been Well Tolerated To Date



- ▶ **50+ years of patient exposure**
 - Majority of adverse events mild in nature
 - Most common treatment-related adverse event is diarrhea, generally mild and transient
- ▶ **Boys on edasalonexent in our Phase 2 clinical trial and open-label extension grew similarly to boys not affected by Duchenne**
 - Height increased by an average of 2.1 inches/year
 - Weight increased by an average of 2.9 pounds/year
 - Both increases in line with typical height and weight increases of boys not affected by Duchenne

Boys are growing taller!
Boys grew **over 2 inches**
per year on average, which
is comparable to the growth
curves of boys not affected
by Duchenne.



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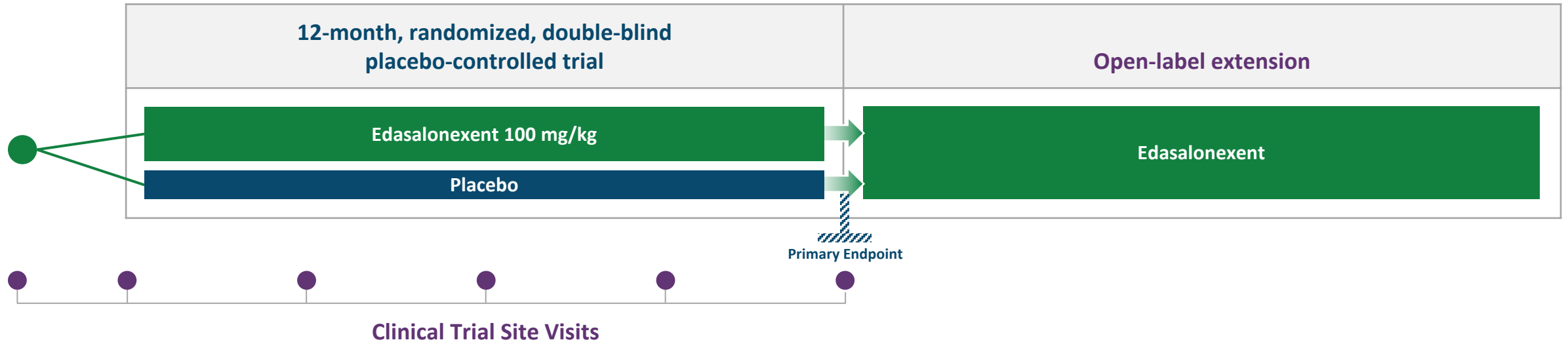


**An update on the currently
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Phase 3 PolarisDMD Trial Design and Schedule



- ▶ Enrolling ~125 boys ages 4 to 7 (up to 8th birthday)
 - Not on corticosteroids for at least 6 months
- ▶ 2:1 randomization, 67% of boys receive drug initially, all boys may continue to receive drug after completing PolarisDMD through GalaxyDMD
- ▶ Clinical trial site visits and key assessments every 3 months
- ▶ Safety measures including labs every 3 months
- ▶ Trial overseen by Data Safety Monitoring Board
- ▶ Top-line results expected in the second half of 2020

PolarisDMD Trial Designed with Input from the Duchenne Community



- ▶ **Designed the trial with input from advocacy organizations, families, physicians**
 - We understand the burden of clinical trial participation
- ▶ **NSAA and additional endpoints are measures that reflect everyday life**
 - Standing up from the ground, walking, climbing stairs



In the PolarisDMD Trial Edasalonexent is a Gel Capsule Taken By Mouth With Food

- ▶ **Dose 100 mg/kg/day**
- ▶ **Taken 3 times per day with food**
 - Mid-day dose can be at school or at home after school
- ▶ **2 different small capsule sizes**
 - 100 mg capsules are similar to the size of a tic-tac
 - 250 mg capsules are similar to the size of a jelly bean
- ▶ **Medi-straws provided to facilitate capsule swallowing**



Additional Assessments Include Growth, Cardiac and Bone Health Measures



Growth

- ▶ Monitoring height and weight to assess how boys are growing relative to their expected growth curves



Heart

- ▶ Monitoring with an easy to wear at-home small adhesive device at baseline, 6 and 12 months
- ▶ Will be analyzed for changes in heart rate as well as heart rate variability



Bone

- ▶ X-rays of the spine at baseline and after one year of treatment
- ▶ Bone mineral density by DXA at baseline and after one year of treatment

Phase 3 PolarisDMD Clinical Trial Enrolling Globally



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Launching New GalaxyDMD Trial for Boys Receiving Open-Label Edasalonexent

Added NCT #

GALAXY DMD



- ▶ **GalaxyDMD is enrolling boys from MoveDMD open-label extension and provides an opportunity for open-label edasalonexent after completing 1-year PolarisDMD trial**
- ▶ **Ongoing monitoring with patient visits every 6 months**
 - Assessments of muscle function:
 - North Star Ambulatory Assessment
 - Timed Function Tests
 - Long term safety including growth and bone health

NCT03917719

GalaxyDMD Focuses on Long-Term Safety and Allows Sibling Participation



- ▶ **Primary focus is evaluation of edasalonexent long-term safety with site visits every 6 months**
- ▶ **Remaining participants from MoveDMD trial transitioned to GalaxyDMD**
 - Boys have received edasalonexent for 2+ years, average age ~9
- ▶ **Once boys from MoveDMD and PolarisDMD enter GalaxyDMD, there will also be an opportunity for their eligible brothers to join**
 - Use of approved exon-skipping therapies is allowed

GalaxyDMD Inclusion and Exclusion Criteria

- ▶ **Inclusion: completion of the MoveDMD or PolarisDMD study**
- ▶ **For siblings of boys who completed MoveDMD or PolarisDMD study:**
 - Inclusion: Genetic diagnosis of Duchenne, age 4-10 (up to 11th birthday)
 - Exclusion: Use of investigational drug or growth hormone, on corticosteroids during previous 24 weeks




Catabasis' Focus on Edasalonexent for Duchenne

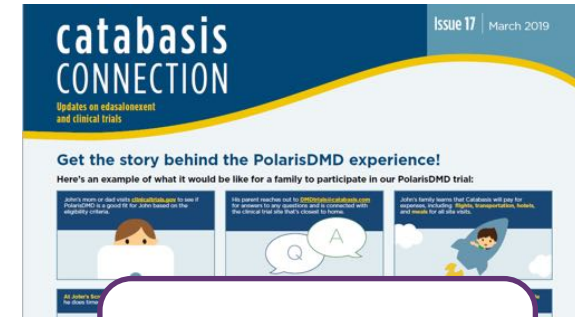


Our goal is for edasalonexent to become a new oral foundational therapy to slow disease progression for all affected by Duchenne as a single agent and potential to be co-administered with other therapies

Catabasis is working to design future clinical trials to expand to other age groups, including those who are non-ambulatory, and Becker muscular dystrophy.

Thank You!

- ▶ Patients and families
- ▶ Patient groups
- ▶ Investigators and Study Staff around the world
- ▶ For questions regarding the Phase 3 clinical trial:
 - Email Joanne Donovan, M.D., Ph.D. and the Clinical Team: DMDtrials@catabasis.com
- ▶ For frequent updates on edasalonexent and PolarisDMD
 - Follow @CatabasisPharma on Facebook  and  agram 



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