Edasalonexent: An NF-кВ Inhibitor in Phase 3 Development for Duchenne Muscular Dystrophy

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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 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 Catabasis Pharmaceuticals, Inc.

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

Edasalonexent: An NF-kB Inhibitor in Development for DMD



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

- Being developed as a new oral foundational therapy for all affected by Duchenne, regardless of mutation type, from time of diagnosis throughout their lifetime
- Being developed for treatment alone and potential to be combined with dystrophin-targeted therapies
- In Phase 2 MoveDMD trial and open-label extension, edasalonexent substantially slowed disease progression compared to off-treatment control period
- Edasalonexent is an investigational agent not currently approved in any territory



Edasalonexent: Potential for Broad Therapeutic Benefit



NF-κB 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



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

) Move

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
- Compare changes during off-treatment control period with changes after initiation of edasalonexent

Range of Endpoints to of Concept and Suppor	Demonstrate Proof rt Design of Phase 3) Move
			DMD 3
NF-кB Target Engagement	Biomarkers	Muscle MRI	Functional
 Inhibition of NF-κB targeted gene set in peripheral blood 	 CRP, biomarker of inflammation Muscle enzymes 	 MRI T2 of upper and lower leg MRS muscle fat 	 North Star Ambulatory Assessment and Timed Function Tests

Key Functional Assessments Performed During Clinic Visits

) Move

North Star Ambulatory Assessment

Timed Function Tests

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	



climb



Time to rise from supine

10-meter walk/run

How measures are scored:



Can perform with difficulty

Unable to perform

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



Aove

In Phase 2 MoveDMD Trial and Open-Label Extension: Edasalonexent Improved Rate of Change of MRI T2 Compared to Off-Treatment Control Period



MRI T2: Composite of 5 Lower Leg Muscles

- Composite of 5 lower leg muscles MRI T2 used to encompass muscles at various stages of disease progression and minimize variability
- Following 72 weeks of edasalonexent, the rate of increase in the composite MRI T2 in the five lower leg muscles decreased as compared to the rate of increase during the off-treatment control period

Safety: Edasalonexent Has Been Well Tolerated To Date

> 50+ years of patient exposure

- Majority of adverse events observed were mild in nature
- 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.

Edasalonexent: An NF-кВ Inhibitor in Development for DMD



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

PolarisDMD Trial Designed with Input from the Duchenne Community

- Designed the trial with input from advocacy organizations, families, physicians
 - 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



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Presented at the 22nd International Annual Congress of the World Muscle Society, 2017

We Plan to Investigate the Potential for Co-Administration of Edasalonexent with Dystrophin-Targeted Therapies

Edasalonexent in combination with exon-skipping increased dystrophin expression in *mdx* mice

- Activated NF-κB increases the expression of several microRNAs that suppress dystrophin production
- Inhibiting NF-κB may enhance dystrophin expression in combination with dystrophintargeted therapies in DMD

In eligible boys in the MoveDMD open-label extension, treatment of edasalonexent with EXONDYS 51® (exon skipping) was well tolerated

Boys on EXONDYS 51 are eligible for Phase 3 PolarisDMD and GalaxyDMD trials









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Edasalonexent Is Taken as a Gel Capsule

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



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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

Many Clinical Trial Sites to Improve Patient Access



POLARIS DM

Sites active and enrolling patients globally

Edasalonexent: An NF-кВ Inhibitor in Development for DMD





An update on the currently enrolling global Phase 3 PolarisDMD trial



An introduction to the new open-label extension GalaxyDMD trial

Launching New GalaxyDMD Trial for Boys Receiving Open-Label Edasalonexent



- 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

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
- Participants from MoveDMD trial transitioning 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
 - May be eligible if receiving approved exon-skipping therapies

GalaxyDMD Inclusion and Exclusion Criteria

GALAXYDME

- 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

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Follow us on social media for frequent updates **@CatabasisPharma**

Learn more about PolarisDMD on our website at **www.catabasis.com** and **clinicaltrials.gov** NCT03703882

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And thank you PPMD!