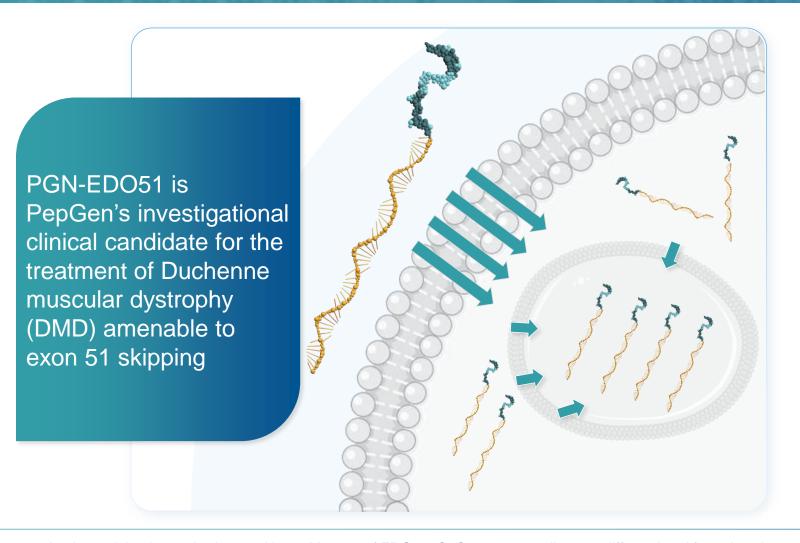
CONNECT1-EDO51: A 12-Week Open-Label Phase 2 Study to Evaluate PGN-EDO51 Safety and Efficacy in People with Duchenne Amenable to Exon 51 Skipping

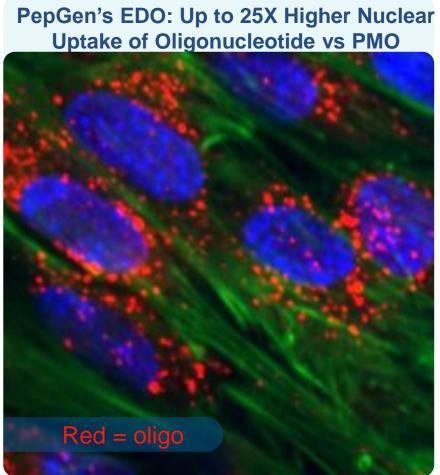
Michelle Mellion¹, Hugh McMillan², Nicolas Chrestian³, Hernan Gonorazky⁴, Colleen O'Connell⁵, Sarah Vacca¹, Mark Peterson¹, Bassem Morcos¹, Sejal Batra¹, Pallavi Lonkar¹, Ashling Holland¹, Jeffrey Foy¹, Sarah Lamore¹, Brijesh Garg¹, Shaoxia Yu¹, Greg Song¹, Jane Larkindale¹

Conflict of Interest

- I am a full-time employee of PepGen
- I receive compensation, stock and benefits from PepGen

PepGen's Enhanced Delivery Oligonucleotide (EDO) Technology is Engineered to Optimize Tissue Delivery and Nuclear Uptake of Therapeutic Oligonucleotides





CONNECT1*: Designed to Establish Proof-of-Concept and Inform CONNECT2-EDO51 Clinical Trial

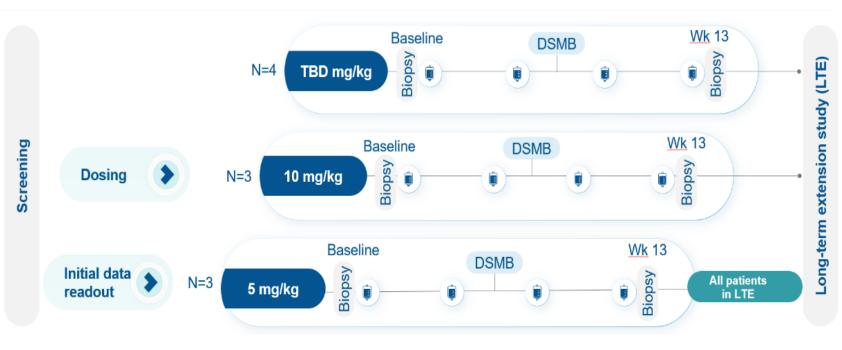


Design

- Open label clinical trial in Canada
- DMD patients (n=10) with exon 51 skippable mutation
- Ages ≥ 8 years
- Ambulatory and non-ambulatory

Endpoints

- Safety and tolerability
- Dystrophin
- Muscle tissue concentration of PGN-EDO51
- Exon skipping



IV administration every 4 weeks, DSMB: data safety and monitoring board

Baseline characteristics are detailed in poster 403P

^{*} ClinicalTrials.gov number, NCT06079736

CONNECT1 5 mg/kg: Safety Profile¹

MAD Period	n (%)
Any TEAEs, n (%)	3 (100)
Related to study drug	1 (33.3)
MildModerateSevere	1 (33.3) 0 0
Serious Adverse Events (AEs)	0
AEs leading to dose modification/ discontinuation/interruption	0
AEs leading to death	0

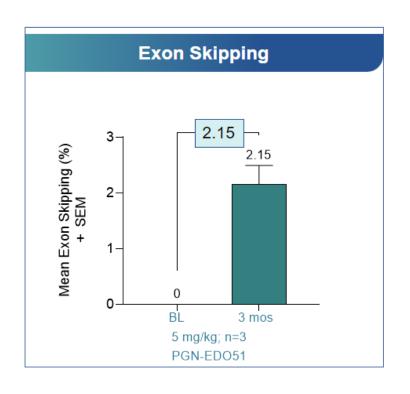
- All treatment emergent adverse events (TEAEs)
 were mild and resolved
- Related TEAE was mild (abdominal pain, flatulence)
- No discontinuations, dose modifications or dose interruptions
 - All participants rolled over to the long-term extension study
- No sustained elevation in kidney biomarkers
- No changes in electrolytes
 - No hypomagnesemia or hypokalemia
- No changes in hepatic function
- No anemia or thrombocytopenia

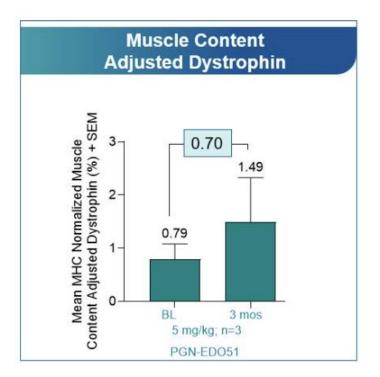
At 5 mg/kg, a total of 25 doses have been administered (12 doses in the MAD period+13 doses in the LTE period)²

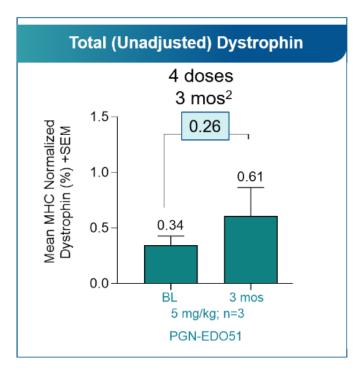
^{1.} As of May 31, 2024

^{2.} As of September 4, 2024

PGN-EDO51 Produced High Levels of Mean Exon Skipping and Promising Dystrophin Increase over Short Treatment Duration and with Few Doses







4 doses over 3 months

Dosing Continues in Cohort 2 at 10 mg/kg¹

- The emerging safety profile is favorable
- At 10 mg/kg, a total of 7 doses have been administered
- All treatment-related AEs were mild and have resolved without treatment
- Asymptomatic mild hypomagnesemia in one patient was observed and treated with oral supplementation
- No dose discontinuations, dose modifications or dose interruptions
- No SAEs
- No sustained elevation in kidney biomarkers
- No changes in hepatic function
- No hypokalemia, anemia or thrombocytopenia

CONNECT1 Key Takeaways

- PGN-EDO51 has a favorable safety profile to date¹
- All participants at 5 mg/kg demonstrated increased dystrophin production and exon skipping at just 3 months and after 4 doses
- Results support that our EDO technology delivers high levels of oligonucleotides to the nucleus

For more details, you can visit our posters

403P CONNECT1-EDO51: A 12-week open-label Phase 2 study to evaluate PGN-EDO51 safety and efficacy in people with Duchenne amenable to exon 51 skipping

404P CONNECT2-EDO51: A Phase 2 placebo-controlled study to evaluate PGN-EDO51 safety and efficacy in people with Duchenne amenable to exon 51 skipping

Thank you!

All the study participants and their families

The clinical investigators and their teams

- Dr. Hugh McMillan, MD, MSc, FRCPC
 Children's Hospital of Eastern Ontario (CHEO)
- Dr. Hernan Gonorazky, MD, CSCN
 The Hospital for Sick Children (SickKids)
- Dr. Nicolas Chrestian, MD, FRCPC, CSCN
 CHU De Quebec-Universite Laval
- Dr. Colleen O'Connell, MD, FRCPC
 Dalhousie University Faculty of Medicine
- Dr. Kristina Joyal
 Children's Hospital Research Institute of Manitoba

The Duchenne patient communities

