

Movendo and Kessler Foundation Partner to Improve Recovery After Brain Injury and Stroke

Kessler Foundation integrates Movendo Technology's robotic platform hunova[®] in rehabilitation research studies aimed at restoring balance in individuals with disabilities caused by neurological illness and injury and aging

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BOSTON--(BUSINESS WIRE)--Movendo Technology, has partnered with Kessler Foundation to explore potential applications for Movendo's robotic platform hunova[®] in rehabilitation research in populations with balance deficits caused by neurological illness or injury and aging

At Kessler Foundation, the hunova[®] is being integrated into on-going clinical trials in brain injury and stroke, according to research scientist Rakesh Pilkar, PhD, in the Center for Mobility and Rehabilitation Engineering Research. Dr. Pilkar directs the Center's Balance Assessment and Training Laboratory. The hunova[®] is a programmable robotic medical device consisting of two independent electromechanical movable platforms, one at foot level and one at seat level. The device, which can deliver more than 200 exercises for postural control, balance, core stability and proprioception, operates in active, passive, and assistive modes.

"Balance is a key element of our lives, playing a fundamental role in our ability to safely perform activities of daily living," explained Dr. Pilkar. "When balance is impaired, quality of life declines as individuals lose their independence and their risk for injury, including falls, increases," he noted. "This greatly increases costs of care and caregiver burden. Incorporating the hunova in our mobility research will help us better understand the spectrum of balance dysfunction across populations with neuromuscular disabilities, and develop new interventions to help restore balance function, toward the goal of improving mobility and enhancing quality of life."

Foundation scientists will also use Movendo's Silver Index[®], a 20-minute predictive evaluation that provides an objective assessment of fall risk and suggests exercise protocols for mitigating risk.

"Establishing this long-term collaboration with Kessler Foundation is an important step toward improving outcomes for individuals whose rehabilitation is complicated by balance dysfunction," said Frank Menzler, Executive VP and General Manager North America of Movendo. "The hunova has already been adopted by more than 100 facilities as a compact system for both objective balance assessments and functional therapy," said Menzler. "We are confident that integrating hunova into the Foundation's mobility research will lead to data-driven solutions that will accelerate recovery, benefiting hospitals, clinics, and patients. The scope of the Foundation's research provides opportunities for testing protocols for restoring and maintaining balance function in a broad spectrum of populations including stroke, brain injury, multiple sclerosis, spinal cord injury, musculoskeletal disorders, and aging."

About Movendo Technology

Movendo Technology, part of the biopharmaceutical group Dompé Holdings, was established in 2017. Headquartered in Genoa, Italy with subsidiaries in Boston, MA, and Munich, Germany, Movendo develops and commercializes robotic and digital rehabilitation solutions for objective, functional assessments and effective treatments. Hunova[®], the company's flagship product and one of the most versatile robotic assistive device available, improves orthopedic rehabilitation, the management of neurological and chronic conditions, active aging and athletic performance. Proprietary software algorithms and novel IT solutions provide for predictive and personalized therapy, telerehabilitation as well as for data-driven population health management tools.

For additional information, visit www.movendo.technology.

About Kessler Foundation

Kessler Foundation, a major nonprofit organization in the field of disability, is a global leader in rehabilitation research seeking to improve cognition, mobility, and long-term outcomes including employment for people with neurological disabilities caused by diseases and injuries of the brain and spinal cord. Kessler Foundation leads the nation in funding innovative programs that expand employment opportunities for people with disabilities.

For more information on Kessler Foundation's research, visit KesslerFoundation.org

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