

MyndMove FACT SHEET

Overview

MyndMove® is a non-invasive functional electrical stimulation (FES) therapy for the treatment of arm and hand paralysis due to a stroke, spinal cord or other neurological injury. MyndMove® is manufactured by MyndTec Inc., a privately held medical technology company located in Mississauga, Ontario.

MyndMove® is the brainchild of Dr. Milos R. Popovic, the Toronto Rehab Institute Chair in Spinal Cord Injury Research and Professor in the Institute of Biomaterials and Biomedical Engineering at the University of Toronto.

Dr. Popovic's decade of research and randomized clinical trials with stroke and spinal cord injury populations led to the development of MyndMove. Numerous clinical studies have provided evidence of the efficacy of MyndMove for a range of individuals with stroke and spinal cord injury. This ground-breaking, desperately needed therapy for upper body paralysis is delivered by specially trained physiotherapists and occupational therapists in clinics across Ontario and British Columbia.

Statistics

Traumatic Brain Injury (TBI)

- TBI is the number one killer and disabler of Canadians under the age of 45 (*Brain Injury Society of Toronto)
- Over 500,000 Canadians sustain a brain injury each year, the majority being young adults and many requiring special care (Brain Injury Canada)
- Motor Vehicle Accidents account for over half of all traumatic brain injuries (*Brain Injury Society of Toronto)

Spinal Cord Injury (SCI)

- There are more than 1,500 new spinal cord injuries per year in Canada
- An estimated 86,000 Canadians live with a spinal cord injury (Urban Futures Institute, 2010)
- On average, it takes 2 to 3 years to attain sufficient independence following a spinal cord injury (Spinal Cord Injury Ontario)
- Problems experienced relate to pain, mobility and agility with nearly 3 million adults aged 15 and over reporting one of these limitations (PALS 2006)
- The estimated annual economic burden of traumatic SCI in Canada is approximately \$3.6 billion, of which \$1.8 billion is associated with direct health care costs. (Urban Futures Institute Report, 2010)

Stroke

More Canadians than ever are surviving strokes due to improvements in care and treatment. However, the stats remain alarming concerning the incidence, resulting disabilities and costs.

- Up to 80% of disabling stroke survivors face arm and hand paralysis
- There are 62,000 strokes and TIAs admitted to hospital each year, one patient every 9 minutes (Heartandstroke.ca)
- There are more younger people having a stroke with numbers expected to double over the next 15 years (Stroke Report 2014: Together against a rising tide)
- \$108,000 is the estimated costs of caring for a ischemic stroke patient for one year and \$48,000 for non-disabling stroke patient (Heartandstroke.ca)
- Navigating the healthcare system after a stroke has been highlighted as a frequent frustration for patients and caregivers (Heartandstroke.ca)

Common Challenges

- Not enough patients are getting access to the care and rehabilitation they need for best possible outcome (Stroke Report 2014: Together against a rising tide)
- In 2012, more than 1 in 4 Canadians reported providing care to a loved one

Benefits of MyndMove®

MyndMove® is the only therapy that treats the entire arm from shoulder to fingers.

MyndMove® therapy leverages the brain's neuroplasticity creating new neural pathways enabling the voluntary movement of the muscles needed to move the paralyzed limb.

MyndMove® retrains the brain to move the arm, hands and fingers, so individuals can do activities of daily living such as feeding, dressing, bathing, grooming and toileting more independently and with greater confidence. Improved independence translates into reduced attendant care costs and has widely reported psychological benefits.

MyndMove® clients have reported:

- improved functional movement of the arm, hand and fingers
- reduction or elimination of pain in shoulder, back and hand
- relaxation of muscles in the hand and fingers, reduction in spasticity
- improved balance during walking
- a more positive attitude towards therapy and recovery
- higher self-esteem and new hope

MyndMove® FES therapy improves the movement and lives of individuals with stroke, traumatic brain and spinal cord injury... one hand at a time.

For more information visit www.myndtec.com or contact:

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