MyndTec Inc. develops and commercializes innovative medical devices and therapies designed to improve function, maximize independence, and enhance quality of life. MyndTec’s first product, MyndMove™ applies advanced principles of Functional Electrical Stimulation (FES) to assist patients suffering arm and hand paralysis following stroke or spinal cord injury (SCI) to make lasting gains in the recovery of natural, voluntary movement.

**PROJECT PURPOSE**
This is a lead-in study and is required to:

- Deploy MyndMove™ therapy in a small number of the leading SCI rehabilitation centres in Canada and the United States;
- Capture preliminary results with this new product in persons with SCI; and
- Generate safety and efficacy data to assist in planning a multi-centre, randomized control trial which will demonstrate the effectiveness of MyndMove™ therapy to our healthcare systems and third party payers.

**TECHNOLOGY OVERVIEW**
MyndMove™ is a non-invasive rehabilitation therapy that combines patient participation, therapist expertise, and a proprietary 8 channel FES device to treat patients suffering from upper-limb paralysis following stroke or spinal cord injury. Based on a decade of scientific and clinical research conducted at the University of Toronto and Toronto Rehabilitation Institute-University Health Network by Dr. Milos Popovic, MyndMove™ promotes the recovery of voluntary hand and arm function. MyndMove™ is the first complete system to provide FES therapy for the full arm with the ability to execute reaching, grasping and fine motor control of the hand, for example pinching. MyndMove™ is for investigational use only in the United States.
The **MyndMove** project (G2015-45) is supported through a contribution from Western Economic Diversification Canada. The views expressed herein represent the views of the Rick Hansen Institute.

The Rick Hansen Institute is a Canadian-based not-for-profit organization with the goal of creating a world without paralysis after spinal cord injury. It works towards this goal by accelerating research and translating clinical findings into practical solutions to develop new treatments, improve health care outcomes, reduce long-term costs and improve the quality of life for those living with spinal cord injury. www.rickhanseninstitute.org

### TIMELINE

- Enrollment to start July 2017
- Recruiting 20 to 30 subjects
- Three-month study duration for each subject (intervention & follow-up)

### NEXT STEPS

Successful completion of this feasibility study will enable the design of a larger multi-centre clinical trial. This is a critical step in the commercialization process of research-based technologies such as MyndMove™ as it provides the data required to support healthcare payer reimbursement, thus de-risking the technology to potential investors and making it more widely available to people with SCI.

### PROJECT TEAM

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