



## RESEARCH STUDY: ADULT VOLUNTEERS *WITH* SPINAL CORD INJURY NEEDED

We are looking for volunteers for structural and functional Magnetic Resonance Imaging scans of the brain, spinal cord, or nerves

**WHO:** Adults, age 18-80 with cervical spinal cord injury.

**WHAT:** Structural and functional Magnetic Resonance Imaging (sMRI and fMRI) of the brain, spinal cord, or nerves. We will ask you to lie still in the MRI while we take pictures of your brain and spinal cord. We will also ask you to do a variety of things (like look at pictures and movies, or pay attention for a vibration on your skin, or listen to sounds and words, or press buttons when you hear certain words or see certain pictures or feel a vibration, or move your hands or feet, or other things) during these scans.

AND / OR

Electrophysiological Evaluation of the brain, spinal cord, or nerves using Peripheral Nerve Stimulation (PNS), and Transcranial Magnetic Stimulation (TMS). We will ask you to sit still while we record activities in your nerves. We will also ask you to do a variety of things (like tense certain muscles slightly or perform other simple actions). For TMS, a wire coil is held over the scalp. A brief electrical current is passed through the coil and creates a magnetic pulse that electrically stimulates part of the brain and testing responses in your finger muscles. For PNS, a brief electrical current will be applied on your wrist. The intensity used for stimulation will be low and you will not experience any movements in your fingers.

**Sessions will last 1 hr X 6 visits or 2 hrs X 3 visits or 3 hours x 2 visits) according to your availability.**

**RISKS:** The effects of magnetic fields in an MRI scanner have been extensively studied, and there are no known significant risks with an MRI exam. There are no known long-term risks of single pulse TMS.

**BENEFITS:** There is no direct benefit to you from being in this study. This study may benefit others in the future by improving methods for the study of nervous system structure and function.

**WHERE:** The International Center for Spinal Cord Injury at Kennedy Krieger Institute  
707 North Broadway, Baltimore, MD

**CONTACT:** Research Coordinator at the International Center for Spinal Cord Injury  
(443) 923-9235 or [clinicaltrials@spinalcordrecovery.org](mailto:clinicaltrials@spinalcordrecovery.org)



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