



Do you have Parkinson's disease with memory problems (PD-MCI) and want to contribute to Parkinson's disease research?

The University of Calgary and Hotchkiss Brain Institute are conducting a clinical research study under the direction of Dr. Oury Monchi, Tourmaline Oil Chair in Parkinson's disease. The purpose of the study is to better understand structural and functional brain changes in people with PD-MCI after **Transcranial Magnetic Stimulation (TMS)**.

TMS improves memory and thinking in patients with mild memory and thinking problems and depression. However, this has not been studied yet in PD. We are collecting data to learn more about the effects of TMS.

If you choose to participate, we will randomly assign you to one of two groups: one group will have three real TMS sessions, while the other group will receive three placebo stimulations using a "sham" coil. We will collect information about your mood, memory and thinking. We will also ask you to have two MRI scans of your head.

Who can participate?

- Men and women 60 to 80 years of age
- People with Parkinson's disease and Mild Cognitive Impairment (mild memory and thinking problems)

How long is the study, and how many study visits are there?

- Your participation in the study will last about 2.5 months
- You will be asked to complete 10 in-person visits throughout the study

What will happen during study visits?

- At the initial visit, a **one-time** blood sample will be drawn
- Your mood, memory and thinking will be assessed; this involves performing a series of tests and answering questionnaires
- You will be asked to have 2 MRI scans of your brain and 3 TMS (or placebo) sessions
- PD symptoms will be assessed

Do you have more questions? Do you want to participate?

Please phone our research coordinator **Jenelle Cheetham** at 403-210-8519, or send an email to info@pcanlab.ca with **TMS** in the subject line

Useful websites:

<http://www.ucalgary.ca/dcms/programs/movementdisorders>

<http://www.pcanlab.ca/>

This study has been approved by the University of Calgary Conjoint Health Research Ethics Board

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