

# Brain research is progressing in revolutionary ways.

Your patients may be interested in participating in a virtual study.

**HANDDS-ONT (Health in Aging, Neurodegenerative Diseases and Dementias in Ontario)** is an observational technology-driven research study facilitated in the participant's home & community.

## What is our purpose?

The primary purpose of this study is to help understand the causes and impairment seen in neurodegenerative and cerebrovascular diseases by linking genetic and molecular factors, day to day activities and long-term outcomes in a novel way.

## Core study features



Wearable health and activity sensors



Health questionnaires



Genetic and molecular analyses based on blood draw



Personalized health and activity reports



**Study is designed to be low burden.  
No study-related clinic visits.**

## How can clinicians get involved?

- | Let your patients know about this study
- | Direct them to the phone number, website or contact email

## Eligible study participants\*

- | People diagnosed with a Neurodegenerative disease:
  - | Alzheimer's Disease/Mild Cognitive Impairment (MCI)
  - | Amyotrophic Lateral Sclerosis (ALS)
  - | Parkinson's Disease
  - | Frontotemporal Dementia (FTD)
- | People who are post-Stroke
- | Adults living independently with no diagnosis of a neurodegenerative disease/stroke.

\* Must be an Ontario resident to participate.

## Contact study organizers

- ☎ 437-882-8335
- @ [www.ondri.ca/handds](http://www.ondri.ca/handds)
- 🌐 [handds@ondri.ca](mailto:handds@ondri.ca)

# HANDDS-ONT Study Details

## Brief Study Overview

A centralized coordinator pool will screen for eligibility and consenting.

### Participants will:

- Wear small biosensors (1 ankle, 1 wrist, 1 chest) for 7-10 days to collect data on their activity, sleep patterns and cardiovascular function.
- Receive a personalized high-level report of select health and activity measures - from data collected while wearing the sensors - and be invited to provide feedback on the report.
- Provide a blood sample for analysis at a LifeLabs® location of their choosing.
- Respond to questionnaires on medical history, current medications, quality of life and mood.
- Provide the name of their 'most responsible' healthcare provider to receive notice of incidental findings and to verify self-reported medical diagnosis.

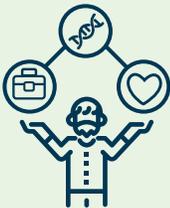
### Our objectives

1



Will examine protein biomarkers and gene mutations to help identify unique cohorts with similar symptoms and daily living behaviours.

2

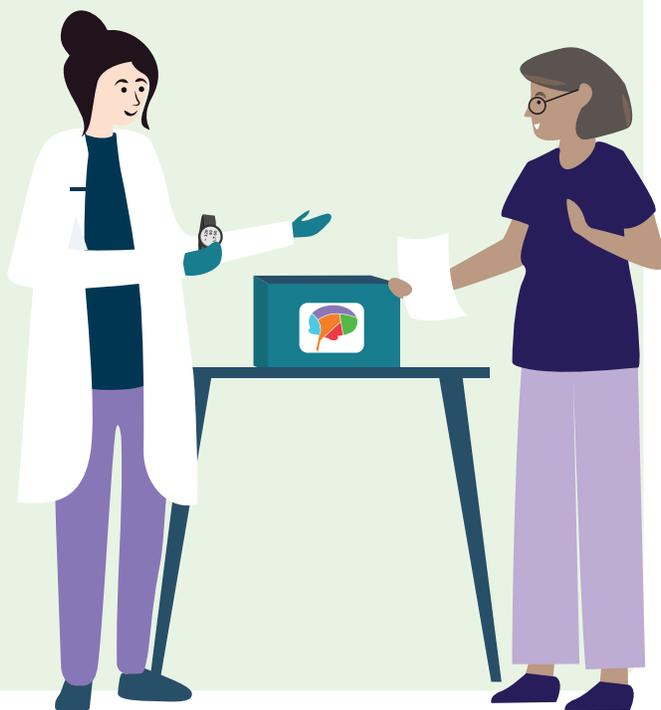


Will examine how genomic-proteomic patterns and daily living behaviours are related to adverse health outcomes in future (using linked system health data).

3



Will examine the useability, acceptance, and impact of personalized health and activity reporting on self-management activities.



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If only referring participants to the study, no need for site research ethics board (REB) approval. Study has Provincial REB approval via CTO.



ONDRI Patient & Community Advisory Committee



ONTARIO NEURODEGENERATIVE DISEASE RESEARCH INITIATIVE

