

## Mechanisms and effects of pallidal deep brain stimulation on levodopa resistant motor signs in Parkinson's disease; Udall Project 2, Aim 2

**Status:** Recruiting

### Eligibility Criteria

**Age:** 18 years and over

This study is NOT accepting healthy

**Healthy Volunteers:** volunteers

#### Inclusion Criteria:

- receiving DBS therapy in for treatment of Parkinson's Disease (PD) - implanted with Medtronic Percept DBS system - at least 3 months since initial activation of the DBS

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#### Exclusion Criteria:

- musculoskeletal disorders that significantly affect the ability to perform the motor tasks - dementia or cognitive impairment - other significant neurological disorders - post-operative complications or adverse effects of the DBS stimulation

### Conditions & Interventions

#### Conditions:

Brain & Nervous System

#### Keywords:

Clinics and Surgery Center (CSC), DBS, Deep Brain Stimulator, Parkinson Disease

### More Information

**Description:** 1.1 Purpose: This protocol will carry out Aim 2 (Experiments 1 and 3) of Udall Project 2, leveraging the novel (on-label, FDA-approved) local field potential measuring capability of the Medtronic Percept™ PC DBS system to study the effects of globus pallidus internus and globus pallidus externus (GPI, GPe) DBS on: the wash-out and wash-in dynamics of motor behavior and local field potentials (LFPs) and correlations between fluctuations in gait and LFPs during activities of daily living (recorded over 4 weeks).

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#### IRB

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