

## Circuit-Based Deep Brain Stimulation for Parkinsons disease; Udall Project 1 Aim 2 and 3

**Status:** Recruiting

### Eligibility Criteria

**Age:** 18 years and over

This study is NOT accepting healthy

**Healthy Volunteers:** volunteers

#### Inclusion Criteria:

- diagnosis of idiopathic Parkinson's Disease - DBS surgery or battery replacement at UMN is planned as part of routine clinical care

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#### Exclusion Criteria:

- other significant neurological disorder - history of dementia - history of stereotactic neurosurgery - people who have post-operative complications or adverse effects (e.g. ON stimulation dystonias) that affect patient safety - women who are pregnant

### Conditions & Interventions

#### Conditions:

Brain & Nervous System

#### Keywords:

Clinics and Surgery Center (CSC), DBS, Deep Brain Stimulation, Parkinson's Disease

### More Information

**Description:** Study objectives: -To characterize spontaneous and movement-related LFP changes in STN and GP in externalized patients under conditions that modulates the severity of tremor, bradykinesia and rigidity (off meds/off stim; on meds/off stim; off meds/on stim, on meds/on stim). -To characterize and compare the relative effect of different forms of closed loop stimulation (e.g., triggered at specific thresholds of low beta/HFO PAC or beta band activity) to standard isochronal high frequency DBS on motor signs and performance during movement.

**Contact(s):** Kelly Brown - ksbrown@umn.edu

**Principal Investigator:** Michael Park

#### IRB

**Number:** 1701M04144

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