

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

Status: Recruiting

Eligibility Criteria

Sex: All

Age Group: 22 years to 85 years old

Inclusion Criteria:

Diagnosis of idiopathic PD DBS surgery or IPG battery replacement at UMN is planned as part of routine clinical care.

Exclusion Criteria:

Other significant neurological disorder History of dementia Prior history of stereotactic neurosurgery Patients with post-operative complications or adverse effects (e.g. ON stimulation dystonias) that affect patient safety or confound the experiment will be excluded from further study Pregnant women

Conditions & Interventions

Keywords:

Clinics and Surgery Center (CSC)

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.

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