

Optimization of deep brain stimulation parameters in patients with medically refractory epilepsy

Status: Recruiting

Eligibility Criteria

Age: 18 years and over

This study is NOT accepting healthy

Healthy Volunteers: volunteers

Inclusion Criteria:

People who have medically refractory epilepsy with a deep brain stimulator in place

Exclusion Criteria:

People who have dementia of sufficient severity to impair their ability to make healthcare related decisions for themselves

Conditions & Interventions

Conditions:

Brain & Nervous System

Keywords:

DBS, Deep Brain Stimulation, Epilepsy

More Information

Description: This study will develop a platform for stimulation setting optimization based on power spectral density (PSD) measures. Randomized, controlled trials have demonstrated that stimulation of the anterior nucleus of the thalamus (ANT) suppresses seizures. The central hypothesis tested here will be that PSD measured in the ANT will correlate with seizure frequency and stimulation settings that suppress broadband activity will result in lower seizure rates.

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IRB

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