ESIS in Pediatric DRE

Status: RECRUITING

Eligibility Criteria

Sex: ALL
Age: 1 year to 30 years old
Healthy Volunteers: This study is NOT accepting healthy volunteers
Inclusion Criteria:

- Diagnosis of drug-refractory epilepsy (DRE)
- 1-30 years of age
- recommended to undergo stereoencephalography (sEEG) at CCHMC

Exclusion Criteria:

- <1 and >30 years of age

Conditions & Interventions

Conditions:
Epilepsy
Keywords:
epilepsy surgery, drug-resistant epilepsy, tuberous sclerosis

More Information

Description:
The main reason for this research study is to gain information about how the brain makes seizures by causing seizures using very small amounts of current, or electrical stimulation. Using small amounts of current to cause seizures (or stimulate) is not new at CCHMC - it is part of routine clinical practice for some patients at some electrodes. This study differs from routine clinical care in that all study patients will undergo electrical stimulation in all or nearly all electrode contacts. The study team is doing this because there is promising data in adult patients that stimulating comprehensively (targeting all or nearly all of the electrode contacts) helps define the seizure network. Defining the seizure network in turn helps the medical team plan surgery. So far, there is not as much published data on seizure stimulation for pediatric patients. This research study thus has the potential both to help individual patients (by providing specific information about your seizure networks) and to help pediatric patients with epilepsy in general (by increasing our understanding of stimulated seizures in children, teenagers and young adults).

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