

Brain-Computer Interfaces in Laryngeal Dystonia

NCT04421365

Status	RECRUITING
Phase	Not Applicable
Sponsor	Kristina Simonyan
Enrollment	40 participants

Key Eligibility Criteria

Inclusion (6)

- Patients will have clinically documented isolated adductor laryngeal dystonia (ADLD) without any other forms of dystonia or tremor. ADLD causes involuntary spasms during vocal fold adduction, leading to voice breaks predominantly on vowels and strained, strangles quality of voice, predominantly affecting voice production during the speaking. Only patients with the ADLD form of disorder will be recruited to minimize the impact of heterogeneity of voice symptomatology on the outcome of these phase 1 studies;
 - Healthy controls will be healthy individuals with a negative history of any neurological, psychiatric, or laryngeal problems;
 - Age from 18 to 80 years;
 - Native English speakers. Non-English-speaking subjects will not be recruited because brain activation and neural network organization are different between native and non-native English speakers;
 - Right-handedness (based on Edinburgh Handedness Inventory). Left-handed subjects will not be recruited because brain activation and neural network organization are different between right and left-handed individuals;
- ... and 1 more (see full listing online)

Exclusion (9)

- Subjects who are incapable of giving informed consent will be excluded from the study;
 - Pregnant or breastfeeding women until the time they are no longer pregnant or breastfeeding will be excluded from the study. All women of childbearing potential will undergo a urine pregnancy test, which must be negative for study participation;
 - Subjects with a past or present medical history of (a) neurological problems, such as stroke, movement disorders (except for ADLD in the patient group), brain tumors, ataxias, myopathies, myasthenia gravis, demyelinating diseases; (b) psychiatric problems, such as schizophrenia, bipolar depression, obsessive-compulsive disorder; (c) laryngeal problems, such as vocal fold paralysis, paresis, carcinoma;
 - Subjects with impaired hearing, vision, and speaking abilities (except for ADLD), as these would most typically have a neurological origin;
 - Patients who have dystonia symptoms at rest in order to avoid the potential confound of dystonic spasms occurring during the asymptomatic task production;
- ... and 4 more (see full listing online)

Locations (1 total)

Massachusetts Eye and Ear Infirmary, Boston, Massachusetts, United States

<https://clinicaltrials.gov/study/NCT04421365>

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