

## Can spectral power and coherence reflect the integrity of the efferent cerebellar cortical pathway in cerebellar mutism syndrome?

**Status:** Recruiting

### Eligibility Criteria

**Sex:** Male or Female

**Age Group:** Not specified

This study is also accepting healthy volunteers

#### Inclusion Criteria:

- Cerebellar Mutism Syndrome (CMS) & Comparison (without CMS) Groups: ages 10 years 0 months to 25 years 11 months of age & fluent in English (parents/guardian do not need to be fluent in English) - For those with Cerebellar Mutism Syndrome (CMS): history of resection of posterior fossa tumor at least 2 years before starting the study and at least 3 months post chemotherapy and radiation treatment

#### Exclusion Criteria:

- Comparison group without CMS: any developmental conditions including ADD/ADHD, learning disabilities, speech/language delay or disorder, motor delay/disorder, cognitive delay and/or diagnosis of autism spectrum disorder - any genetic condition  
•any neurologic condition including history of stroke, seizure disorder, or brain injury - history of brain tumor or other cancer diagnosis - CMS Group: any developmental conditions including ADD/ADHD, learning disabilities, speech/language delay or disorder, motor delay/disorder, cognitive delay and/or diagnosis of autism spectrum disorder prior to brain tumor diagnosis - any genetic condition prior to brain tumor diagnosis  
•any neurologic condition including history of stroke, seizure disorder, or brain injury disorder prior to brain tumor diagnosis

### Conditions & Interventions

#### Conditions:

Brain & Nervous System, Cancer, Children's Health

#### Keywords:

brain tumor, cerebellar mutism syndrome (CMS)

### More Information

**Description:** This study will be measuring brain activity using EEG and assessing motor skills and speech in children following cancerous brain tumor resection. No direct cancer treatments or objectives are being targeted.

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#### IRB

**Number:** STUDY00019602

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