

Tracking Early Emergence of Sound Perception Impairments in FXS With Multimodal fNIRS/EEG-Preschool Age

Status: RECRUITING

Eligibility Criteria

Sex: ALL

Age: 24 months to 4 years old

Healthy Volunteers: This study is also accepting healthy volunteers

Inclusion Criteria:

- Diagnoses of Fragile X Syndrome, Typical Development, or History of Premature Birth
- able to sit independently
- English is spoken at home

Exclusion Criteria:

- For all participants: no seizures in the past 6 months
- For typical development group and Fragile X group: not born prior to 32 weeks gestation

Conditions & Interventions

Interventions:

OTHER: Speech discrimination

Conditions:

Fragile X Syndrome

More Information

Description:

Individuals with Fragile X Syndrome show differences in how they understand and learn language from infancy. They frequently have lifelong delays in speech and language as well. In addition, they experience other auditory symptoms, including being very sensitive to certain sounds as well as being more sensitive than others to loud sounds. The underlying brain activity for sound perception and speech learning in Fragile X is not well understood, especially in the infant, toddler, and preschool years. This study uses behavioral assessment of speech and language abilities, neuroimaging, and hearing tests to understand how speech and hearing are different in children with Fragile X Syndrome.

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Principal Investigator:

Principal Investigator ID:

Phase: NA

IRB Number:

System ID: NCT05957549

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