

Wearable monitor for FOG detection

Status: Recruiting

Eligibility Criteria

Age: 18 years and over

This study is also accepting healthy

Healthy Volunteers: volunteers

Inclusion Criteria:

- Age: 21 to 75 years - Able to walk independently without the assistance of a walking aid

Exclusion Criteria:

- History of musculoskeletal disorders - Other significant neurological disorders - Hallucinations - Unable to walk - Legally Blind - Symptomatic low blood pressure - Additional exclusion criteria for young and healthy controls: diagnosis of Parkinson's disease, or a family member with a diagnosis of Parkinson's disease.

Conditions & Interventions

Conditions:

Brain & Nervous System

Keywords:

Parkinson's

More Information

Description: Freezing of gait is a common problem in people with Parkinson's disease. Episodes of freezing can be overcome when a sensory cue is provided. This study will further develop and study the efficacy of a wireless shoe insole that can monitor walking and provide a cue (acoustic or vibrotactile) when a freezing event is detected. The experiment is designed to further test the ability of the device and algorithm to reliably detect freezing and release the episode with an external cue. This study has the potential to develop a tool that can help reduce the incidence and severity of freezing events in people with Parkinson's disease.

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IRB

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