

## Plasticity of motor systems in early stage Parkinson's disease

**Status:** Recruiting

### Eligibility Criteria

**Sex:** Male or Female

**Age Group:** 18 years and over

This study is also accepting healthy volunteers

#### Inclusion Criteria:

Inclusion Criteria For PD Group: 1. Diagnosis of Parkinson's disease 2. Not taking medication to treat Parkinson's 3. Age: 21-75 years 5. Able to walk independently

Inclusion Criteria For Control Subject Group: Age and sex matched to participants with PD and able to walk independently

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#### Exclusion Criteria:

Exclusion criteria for PD group: 1. Dementia diagnosis 2. History of musculoskeletal disorders 3. History of bipolar disorder, post-traumatic stress disorder or major depressive disorder 4. Other significant neurological disorders that may affect participation or performance in the study 5. Implanted DBS or other neurosurgeries to treat PD 6. Pregnant women 7. History of seizures, epilepsy, stroke, multiple sclerosis, or traumatic brain injury 8. Intracranial metallic or magnetic devices (e.g. cochlear implant, deep brain stimulator) 9. Pacemaker or any implanted device 10. History of surgery on blood vessels, brain, or heart 11. Unexplained, recurring headaches or concussion within the last six months 12. Severe hearing impairment Exclusion Criteria for Control subject Group: same as exclusion criteria of PD group

### Conditions & Interventions

#### Conditions:

Brain & Nervous System

#### Keywords:

Parkinson

### More Information

**Description:** The purpose of this project is to provide new knowledge of the relationship between structural and functional changes in cortico-basal ganglia pathways and the severity of motor and non-motor deficits in humans with PD.

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