

# Tracking disease progression in Parkinson's Disease using new postural and brain imaging measures

<https://www.neurodegenerationresearch.eu/survey/tracking-disease-progression-in-parkinsons-disease-using-new-postural-and-brain-imaging-measures/>

## Principal Investigators

### Institution

The Australian National University

## Contact information of lead PI

### Country

Australia

## Title of project or programme

Tracking disease progression in Parkinson's Disease using new postural and brain imaging measures

## Source of funding information

Perpetual

## Total sum awarded (Euro)

€ 93,242

## Start date of award

01/01/2015

## Total duration of award in years

1

## Keywords

### Research Abstract

Patients with Parkinson's Disease suffer a range of motor symptoms affecting gait, balance and posture. Early detection of symptoms is essential for predicting progression of the disease in individuals.

?A simple measure, postural sway while standing, has proved useful for detection in comparing patients to controls. Recently non-linear sway measures, which we have been investigating systematically, have shown promise in increased sensitivity and specificity.

We will examine the association between these measures and existing patient outcome measures, including mortality, rate of progression, and functional brain imaging (EEG)

measures.

This will make an exciting contribution to the clinical and theoretical understanding of PD, allowing clinicians to more accurately and objectively monitor disease progression and predict patient outcomes such as cognitive and motor decline and mortality.

To complete this cross-sectional study, a pilot for a major prospective study, we are seeking funding from Perpetual for two Balance Plates and an EEG system.

**Further information available at:**

**Types:**

Investments < €500k

**Member States:**

Australia

**Diseases:**

N/A

**Years:**

2016

**Database Categories:**

N/A

**Database Tags:**

N/A