

PARKINSON'S DISEASE

Motor Skill Symptoms

- BRADYKINESIA**
(mask-like face, decreased blinking, degrading fine motor skills)
- VOCAL SYMPTOMS**
- RIGIDITY AND POSTURAL INSTABILITY**
- TREMORS**
- WALKING OR GAIT DIFFICULTIES**
- DYSTONIA**
(repetitive muscle movements that makes body parts twist)

Nonmotor Skill Symptoms

- MENTAL/BEHAVIORAL ISSUES***
- SENSE OF SMELL**
- SWEATING AND MELANOMA**
- GASTROINTESTINAL ISSUES** (urinary issues, weight loss, sexual concerns)
- PAIN**

*includes depression, anxiety, fatigue, sleep problems, and cognitive ability and personality changes

Parkinson's disease (PD) - the second most common neurodegenerative disorder.

In the era of **digital health**, smart devices like **smartphones** and **smartwatches** provide an **affordable and accessible** way to capture **digital biomarkers**.

To explore key insights from **accelerometer** and **gyroscope** data, helping to identify **early predictors of PD** and enhance disease management.

Patient Profile

Non-Motor Symptoms

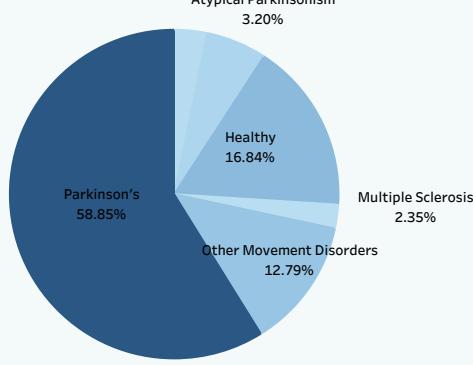
Motor Symptoms

Asymmetric Movement

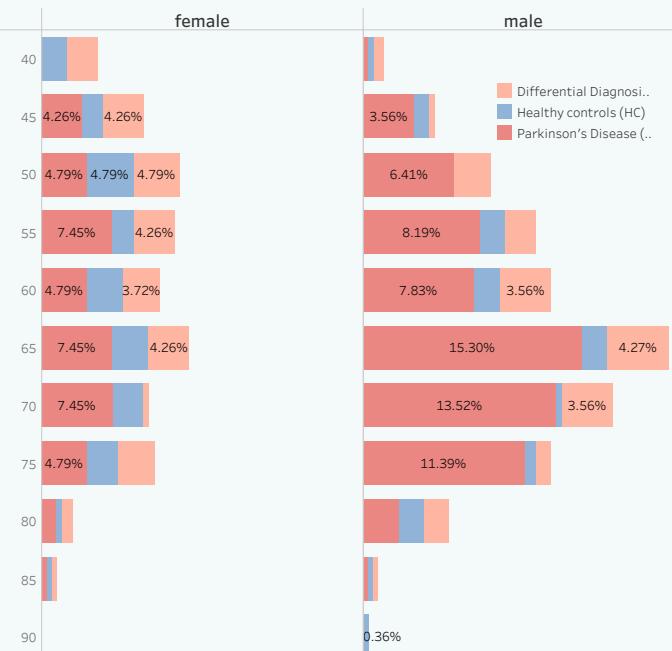
Early PD Signs

Patient Profile & Demographics

% of subjects / Condition



Descriptive Analysis- age at study / Gender/PD,HC,DD

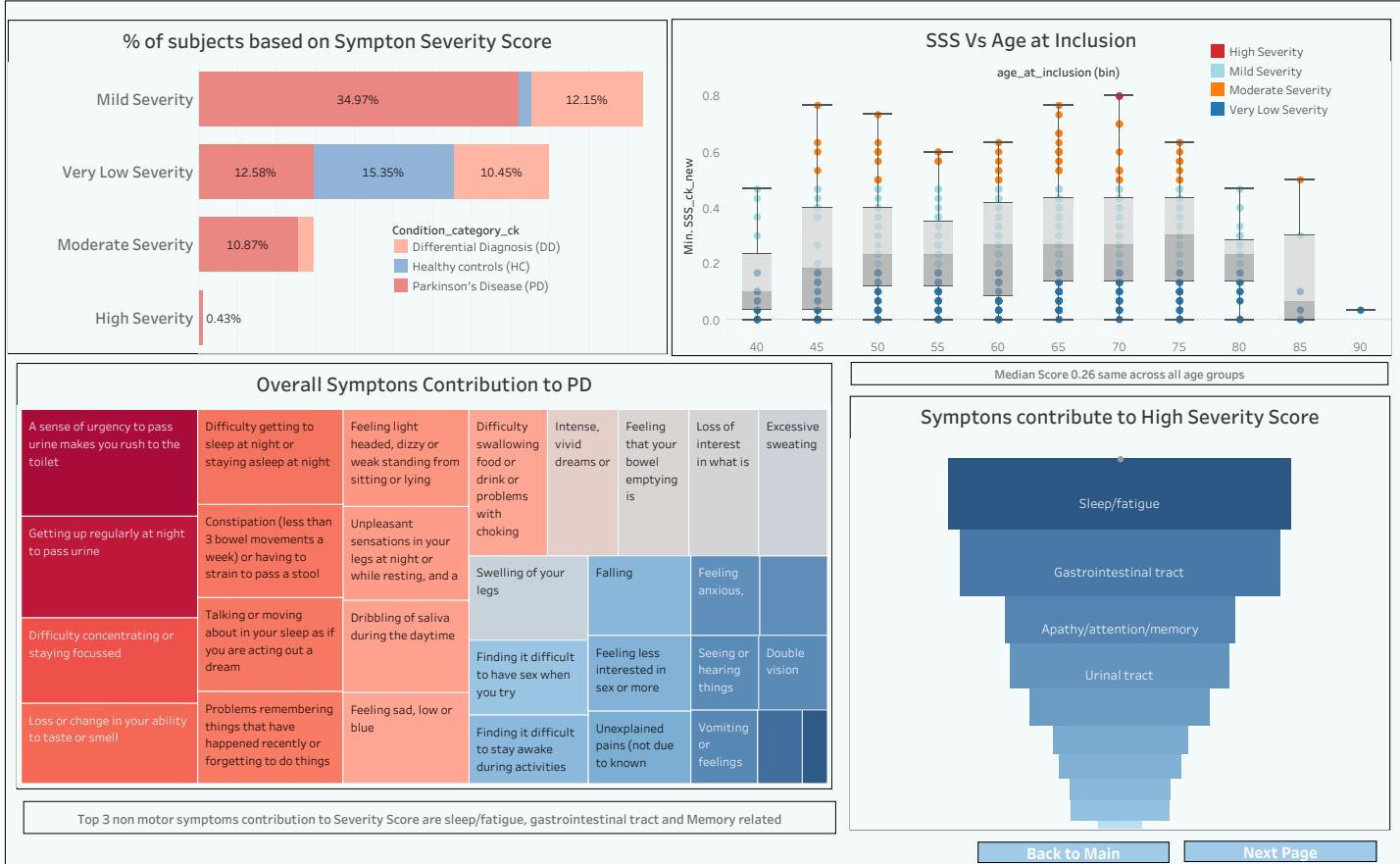


Among 58.85% Parkinson's cases, predominant male and female groups are within the age range of 60-70

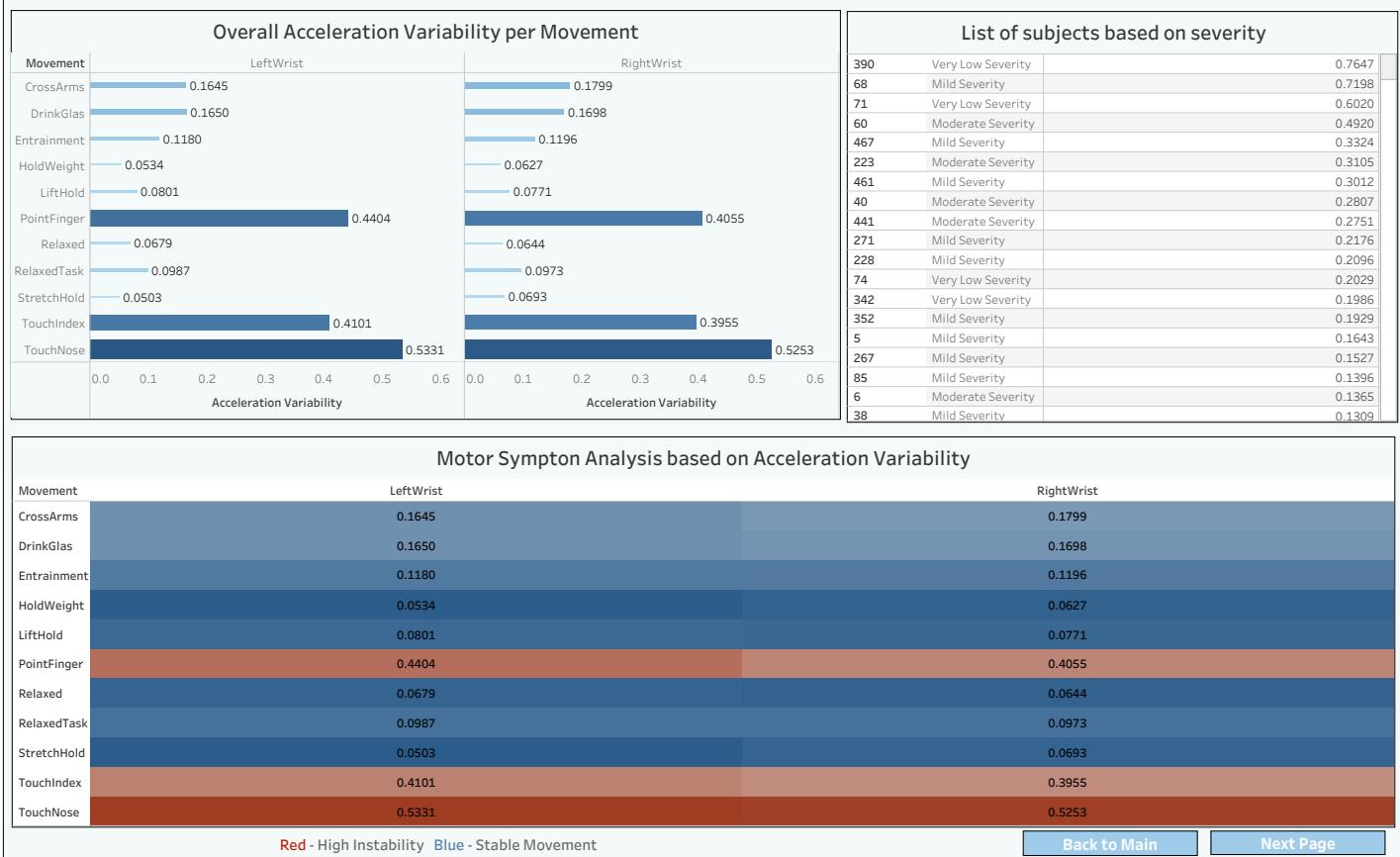
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Sympotn Severity Score Analysis



Movement Sensors Analysis



Movement & Asymmetry Analysis



