PDGAN Additional Information

Parkinson's Disease Background

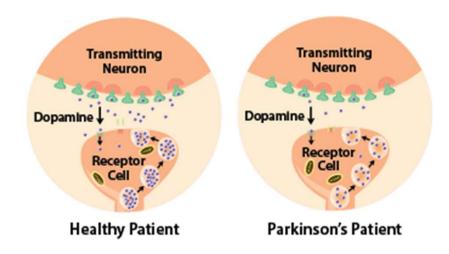
What is Parkinson's Disease?

Parkinson's Disease is the second most common neurodegenerative disorder.

- Affects Movement and Memory
- There is no cure but symptoms can be treated if detected in early stage
- Typically starts with an undetectable tremor, but if detected late,
 Parkinson's Disease is unable to be treated

Causes of Parkinson's Disease

- Parkinson's Disease is caused by a loss of dopamine production.
- When dopamine levels decrease, it causes abnormal brain activity, leading to symptoms of Parkinson's disease.



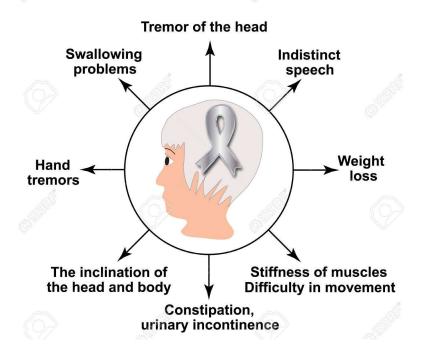
Symptoms of Parkinson's Disease

Symptoms of Parkinson's Disease include:

- Tremors
- Bradykinesia (Slowed Movement)
- Speech & Writing Changes
- Impaired Posture and Balance

Many of these symptoms may seem common, but could indicate bigger problems like Parkinson's.

SYMPTOMS OF PARKINSON'S



Medication

There are many medications to mitigate the symptoms of Parkinson's Disease.

Levodopa is a chemical that converts to dopamine when it passes into the brain.

Dopamine agonists mimic dopamine in the brain. Not as strong as Levodopa, agonists lose their potency slower.

COMT inhibitors prolongs the effects of levodopa by blocking enzymes that break down dopamine.

MRI's Use in Parkinson's Disease

Many researchers hypothesized the use of anatomical and functional MRIs to detect Parkinson's Disease *before* symptoms develop.

