Parkinson's disease (PD) is a progressive neurological disorder that

Introduction

primarily affects movement. It is characterised by tremors, stiffness, and bradykinesia (slowness of movement). Understanding this condition is crucial for early diagnosis and effective management.

Parkinson's disease symptoms can vary widely among

and face.

Symptoms

individuals. Common symptoms include: **Tremors:** Often starting in one hand, these rhythmic

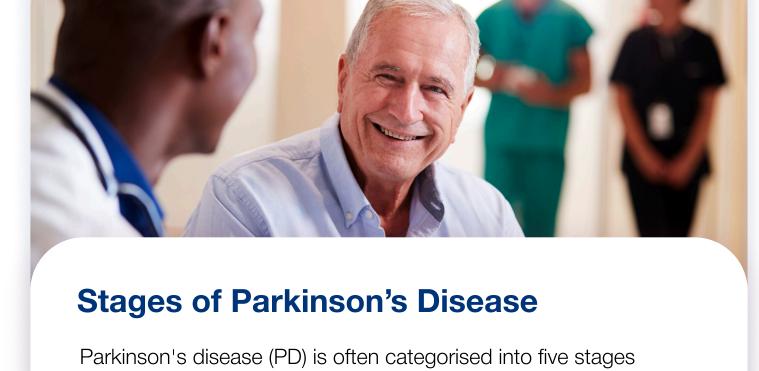


Stiffness: Muscle rigidity can occur in the arms, legs, and trunk, leading to discomfort and limited movement.

shaking movements can also affect the legs, jaw,

Bradykinesia: This slowness of movement can make simple tasks difficult and time-consuming. Postural Instability: Poor balance and coordination

can increase the risk of falls. **Speech Changes:** Soft, slurred, or monotone speech is common.



Stage 1:

may go unnoticed.

based on the severity of symptoms:

Mild Symptoms Symptoms: Slight tremors, minor changes in

posture, and slight changes in facial expressions.

Impact: Usually doesn't interfere significantly with

daily activities. Symptoms are generally mild and

Stage 2: Moderate Symptoms

difficulty with balance and coordination. Daily tasks may take longer to complete.

Impact: Symptoms become more noticeable; individuals may start to have trouble with everyday activities like dressing and eating.

Symptoms: Increased tremors, rigidity, and

Stage 3: Mid-Stage Symptoms: Significant balance issues, increased stiffness, and more pronounced tremors. Individuals may begin to experience falls.

> **Impact:** Marked impact on daily life; individuals may need assistance with some tasks and may

require assistance, and tremors may be present at

have difficulty maintaining independent living.

Advanced Symptoms Symptoms: Severe symptoms that significantly impair mobility and daily functioning. Walking may

Stage 4:

individuals may struggle to live independently and often experience significant lifestyle changes.

and support.

rest.

Stage 5: Severe Symptoms **Symptoms:** Complete dependence on caregivers for daily activities. May experience severe

cognitive changes, hallucinations, or delusions.

Impact: Individuals may be unable to walk or

stand without assistance, requiring full-time care

Impact: Requires help with daily activities;

Loss of Dopamine: The death of dopamine-producing neurons in the brain leads to the symptoms of Parkinson's.

Causes

factors are believed to contribute:

Diagnosis

confirm the diagnosis.

Imaging Tests:

Genetic Testing:

Medication Response:

Alpha-Synuclein Test:

skin or spinal fluid samples.

DAT Scan:

disease.

The exact cause of Parkinson's disease is unknown, but several

Parkinson's, though these are rare.

pesticides may increase risk.

Genetics: Certain genetic mutations are linked to

Environmental Factors: Exposure to toxins such as

- symptoms, and conducts a neurological and physical exam. Diagnosing Parkinson's can take time, and healthcare professionals often recommend regular follow-up appointments with specialists in movement disorders to monitor symptoms and

There isn't a specific test for diagnosing Parkinson's disease. Instead, a neurologist evaluates the patient's medical history,

The Potential Tests and Procedure includes: **Physical and Neurological Exam:** Assesses medical history, mental abilities, coordination, and reflexes. **Blood and Lab Tests:** Rule out other conditions.

MRI, brain ultrasound, and PET scans help exclude other

A specific SPECT scan that supports Parkinson's suspicion;

Recommended for those with a family history or early-onset

Detects signs of Parkinson's before symptoms appear, using

A short trial of Parkinson's medications may indicate a

conditions but are not diagnostic for Parkinson's.

however, most patients do not need it.

diagnosis if symptoms improve. **Follow-Up Appointments:** Ongoing evaluations may be needed for confirmation.

Treatment

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can help manage symptoms:

Surgery:

Therapies:

communication.

Living with Parkinson's

with Parkinson's.

Exercise:

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Medications:

- Levodopa is the most effective treatment, often combined with carbidopa to reduce side effects. Other medications include dopamine agonists and MAO-B inhibitors.

regulate abnormal impulses.

Deep brain stimulation (DBS) can be considered for

patients who do not respond well to medications.

This involves implanting electrodes in the brain to

Physical, occupational, and speech therapies can

improve mobility, daily functioning, and

While there is no cure for Parkinson's disease, various treatments

- **Diet:** A balanced diet rich in fruits, vegetables, and whole grains supports overall health. **Support:** Joining support groups and seeking counselling can help manage the emotional challenges of living

flexibility, and overall well-being.

Managing Parkinson's disease involves a holistic approach:

Regular physical activity can improve balance,

Parkinson's disease is a complex condition that requires a

Conclusion

comprehensive management plan. Early diagnosis and a combination of treatments can significantly improve the quality of life for those affected. For more detailed information, consult healthcare providers and trusted medical resources.









