

Parkinson's Disease (PD)



- One of the most common neurodegenerative disorder affecting ~ 1-2% of the population above 60 years of age
- Monogenic mutations contributes to ~30% of familial cases and remaining are primarily polygenic in nature.

Genes (monogenic) Implicated in PD Etiology

Autosomal Dominant

SNCA, CHCHD2, VPS35, LRRK2

Autosomal Recessive

PLA2G6, FBXO7, DNAJC6, SYNJ1, VPS13C, PINK1, DJ1, PRKN, ATP13A2, DNAJC6

Evolving Evidence

ADORA1, PODXL, GBA*, CSMD1, DNAJC13, TMEM230, LRP10, NR4A2, PANK2, PARL, PNXNA4, RIC3, TNK2, TNR, SNCAIP, CSF1R, EIF4G1, UCHL1, GIGYF2, HTRA2, NUS1

*Risk

Test Details

| Test Code | Test Name | Methodology | TAT |
|-----------|--|-------------|---------|
| MGM126 | Early-onset juvenile parkinsonism gene panel | NGS | 19 days |
| MGM2436 | PRKN gene deletion/duplication analysis | MLPA | 14 days |
| MGM3325 | (Combo) Monogenic Parkinson Disease Panel | NGS & MLPA | 14 days |
| GES008 | Polygenic Risk Score for PD | WGGA | 14 days |

WGGA - Whole Genome Genotyping Array | NGS - Next Generation Sequencing
MLPA - Multiplex ligation-dependent probe amplification

RESEARCH ARTICLE

The Genetic Drivers of Juvenile, Young, and Early-Onset Parkinson's Disease in India

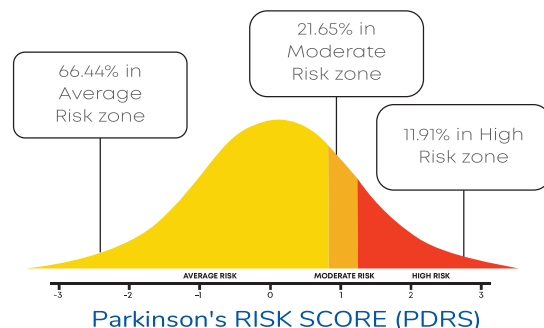
"In our study of 576 subjects with PD, almost all pathogenic PRKN variants were deletions (22/25 cases), most of them homozygous (20/22) involving 3rd and/or 4th exon"



Scan for full Research Paper

Polygenic Risk Score (PRS) Test

This is a screening test that helps estimate the genetic predisposition of an individual to develop PD. The risk is calculated from ~2000 genetic markers implicated in the disease and is given as Polygenic Risk Score (PRS).



Indicates if the individual is at high, moderate or average genetic risk. Assay is based on study in Indian cohort

Talk to the Experts:

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