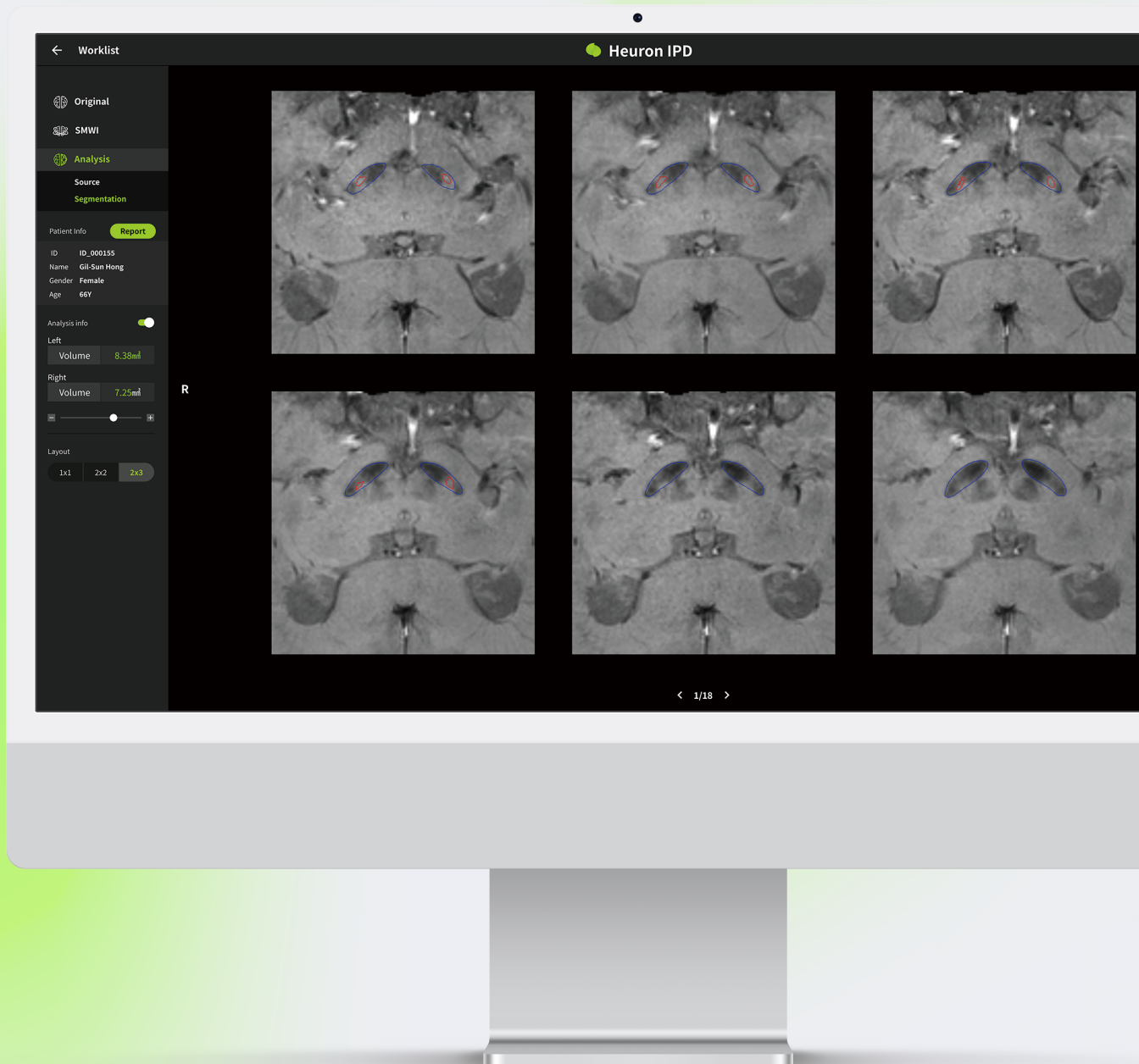
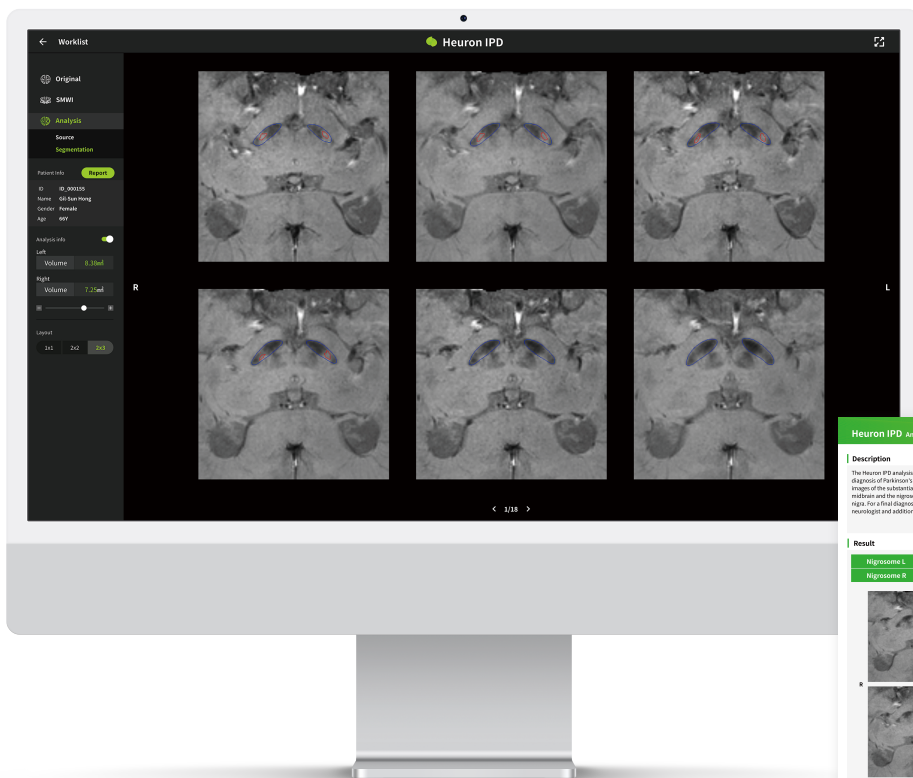


Parkinson's Disease Diagnostic-Aid AI Solution Heuron IPD

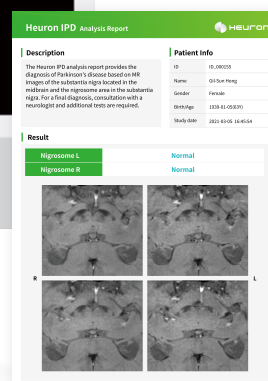


Detecting Diseases Before Symptoms

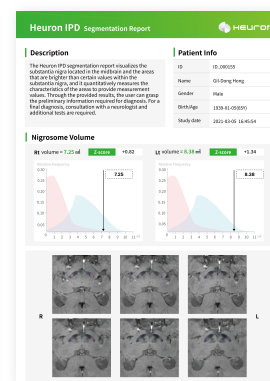
Heuron IPD



- Korean MFDS Approved
- CE Marked
- Taiwan FDA Registered
- Singapore HSA Approved



Analysis Report



Segmentation Report

Optimal Convenience with a Single MRI.

MRI scans, more affordable, faster, and safer compared to PET scans, are ideal for early Parkinson's diagnosis and monitoring.

Enhanced Precision in Early Detection.

Utilizing AI, the visualization of the nigrosome area enables the early detection of Parkinson's disease with high diagnostic accuracy.

Reduce Patient Burden, Increase Satisfaction.

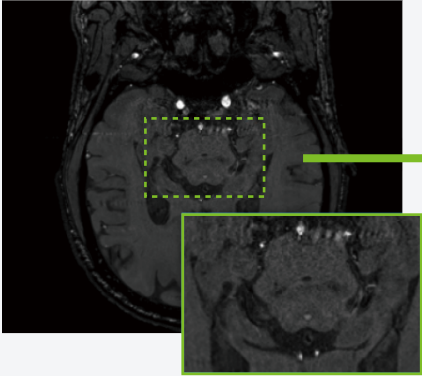
Through a streamlined and rapid screening process, Parkinson's assessment is simplified, fostering effective patient communication through analysis reports.

Visualizing Parkinson's Key Signal: the Nigrosome

See the Unseen

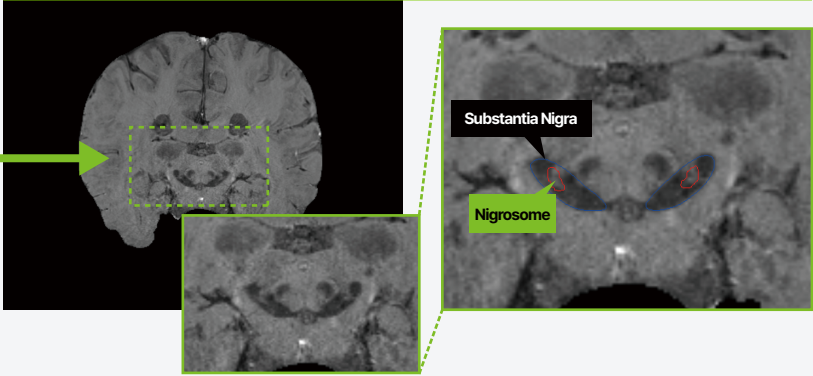
Automated SMWI (Susceptibility Map-Weighted Imaging) Processing

Pre-Heuron (Original)



Visual interpretation is challenging due to low image contrast

Post-Heuron (SMWI)



SMWI algorithm improves imaging quality and facilitates clearer interpretation

Maximize Efficiency

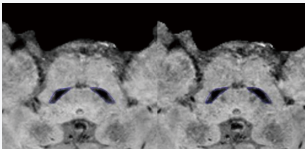
Heuron IPD not only reduces variability in results interpretation but also supports the selection of candidates for PET/SPECT imaging.

Corresponding Interpretation between Heuron and PET/SPECT Imaging

IPD Patient / 63yrs / Female¹

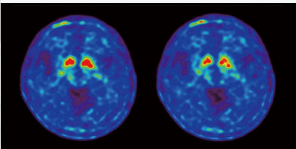
HEURON

Displays substantia nigra segmentation (blue) and nigral hyperintensity (red), with volumes of 0 mm³ (left) and 0.13 mm³ (right).



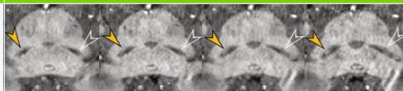
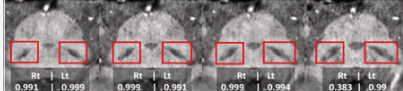
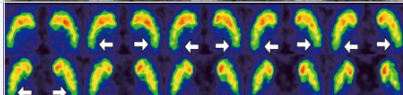
PET Scan

Shows decreased dopamine transporter binding in the bilateral basal ganglia.



*Using 18F-FP CIT PET imaging as the reference standard

IPD Patient / 74yrs / Female²

| | | | |
|----------|----|----|---|
| | RT | LT | |
| NR | ✗ | ○ |  |
| HEURON | ○ | ○ |  |
| DAT Scan | ○ | ○ |  |

* Using DAT imaging as the reference standard

* Visual interpretation by a neuroradiologist with 13 years of experience

1. Suh PS et al., Deep learning-based algorithm for automatic quantification of nigrosome-1 and Parkinsonism classification using susceptibility map-weighted MRI. Am J Neuroradiol. 2024.

2. Shin DH, et al. Automated assessment of the substantia nigra on susceptibility map-weighted imaging using deep convolutional neural networks for diagnosis of Idiopathic Parkinson's disease. Parkinsonism Relat Disord. 2021 Apr 85:84-90.

Don't Wait for Symptoms to Appear

Early Detection of Parkinson's Disease

Idiopathic Parkinson's Disease Detection

- Automatically detects and visualizes the nigrosome area through SMWI
- Comprehensive evaluation of nigrosome status in both hemispheres
- Displays the analyzed images from various angles
- High sensitivity and specificity

Nigrosome Quantification

- Quantifies the volume of the nigrosome area
- Facilitates interpretation with optimized visualization of the substantia nigra and nigrosome area
- Evaluates reductions in nigrosome area volume using z-scores and graphs
- Suggests ongoing monitoring for patients with volume reduction

High Diagnostic Performance¹

Heuron IPD provides essential support for the rapid and accurate quantification of nigral hyperintensity, assisting in the diagnosis of idiopathic Parkinson's disease and the prediction of symptom severity.

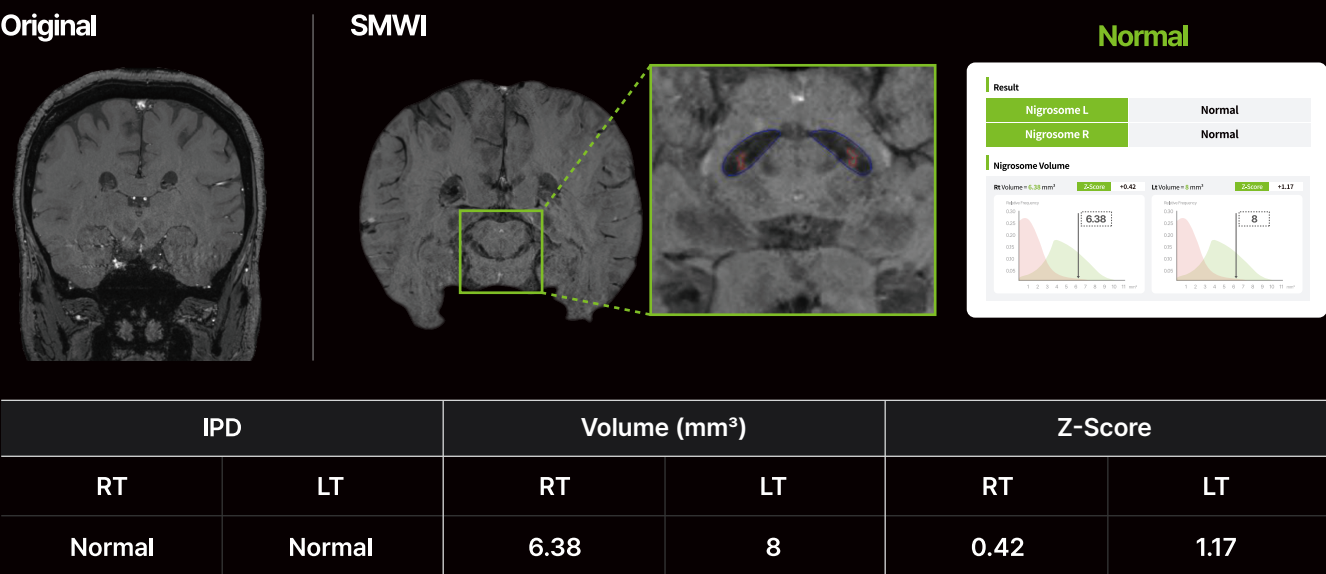
| Diagnostic Performance of Heuron IPD in All Participants | | Accuracy in H&Y Score Groups |
|--|---|---|
| Sensitivity 97.0% [93.2, 99.0] | Right AUC 0.976 [0.948, 0.992] | H&Y 1-2.5 96.7% [91.7, 99.6] |
| Specificity 95.7% [87.8, 99.1] | Left AUC 0.967 [0.936, 0.986] | H&Y 3-5 96.2% [86.8, 99.5] |

*Reference standard for IPD was based on 18F-FP CIT PET finding

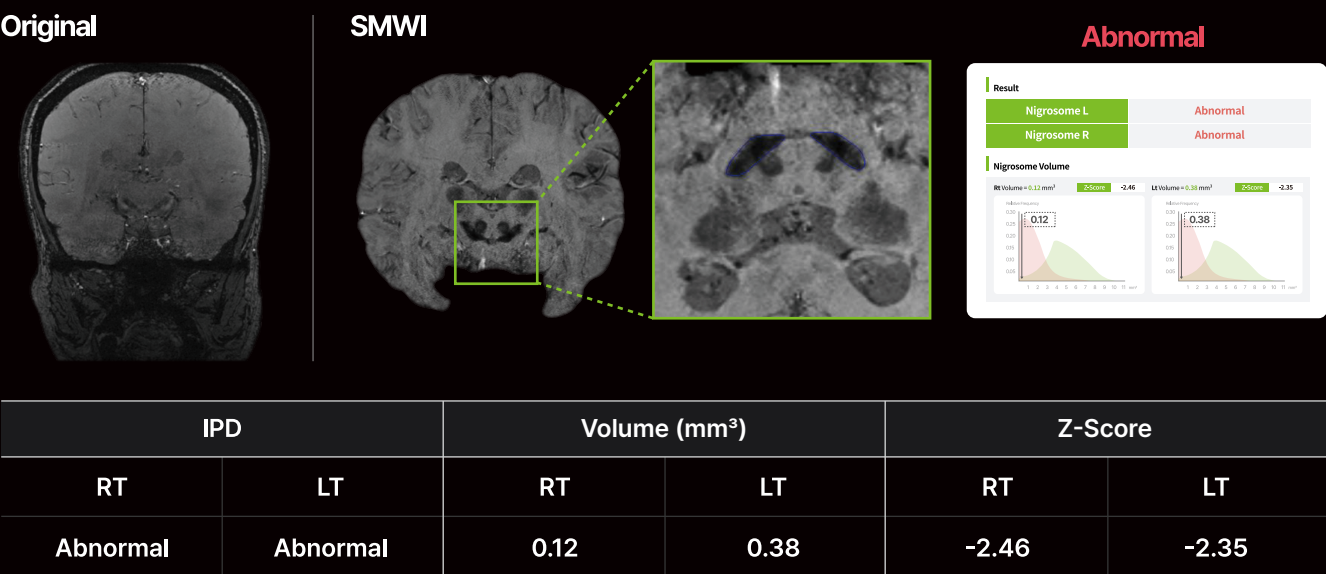
Heuron Parkinson Analysis Results

Clinical Case

Case 1: 61yrs/Female



Case 2: 65yrs/Female



Detecting Diseases Before Symptoms
Because Well-Aging Matters.



10F, C, 150, Yeongdeungpo-ro, Yeongdeungpo-gu, Seoul, 07292, Rep. of Korea
T. +82-2-2633-8595 | E. heuron@iheuron.com | H. www.iheuron.com
©2025. Heuron Co., Ltd. All rights reserved.

Heuron-PB-Parkinson-03E(03)



Scan to Connect and
Discover More