

VUNO Med[®] DeepBrain[™]

BRAIN PARCELLATION FOR THE QUANTITATIVE
ANALYSIS OF NEURODEGENERATIVE DISEASES
AND OTHER NEUROLOGICAL DISORDERS

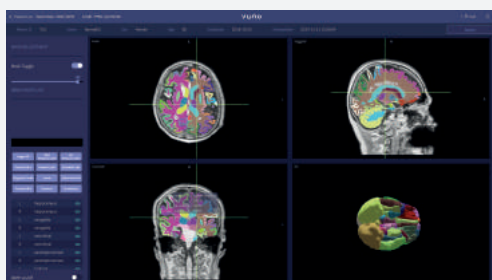
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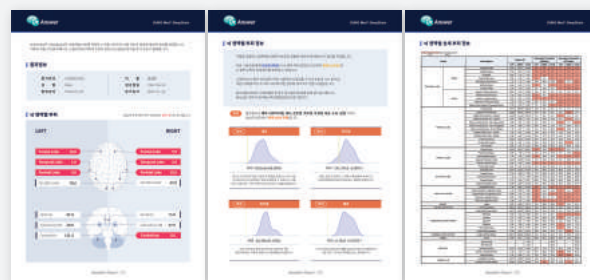
Ministry of Food and
Drug Safety

Key Features

- VUNO Med-DeepBrain parcellates the brain into 100+ parts using 3D T1 non-contrast MRI in a short time, and provides quantitative data describing volume, normative percentiles, and cortical thickness with color overlays. Our solution can assist clinicians diagnose neurodegenerative disorders by analyzing atrophy of main brain structures. Through various data visualization graphs, medical staff can analyze the patient's condition and easily consult with the patient.
- VUNO Med-DeepBrain generates automatic white matter hyperintensity segmentation with T2-FLAIR MRI and shows the respective volume.
- Extracted from parcellated brain structures, off-the-shelf radiomics features are provided in csv format that can be used to quantitatively analyze brain MRI.



[Product Screen]



[Report]

Performance Validation

- VUNO Med-DeepBrain provides consistent results with FreeSurfer* and is more than 10 times faster (within 1 minute) than existing commercial products, holding the largest domestic market share.
- Stable performance is achieved across various medical institutions and MRI equipment using robust pre-processing techniques. Consistent performance was observed across validation studies on interracial datasets.

*FreeSurfer: An open source software suite for processing and analyzing human brain MRI images originally developed by Bruce Fischl, Anders Dale, Martin Sereno, and Doug Greve. Further information available at <https://surfer.nmr.mgh.harvard.edu/>

Intra Correlation Coefficient(with FreeSurfer)

