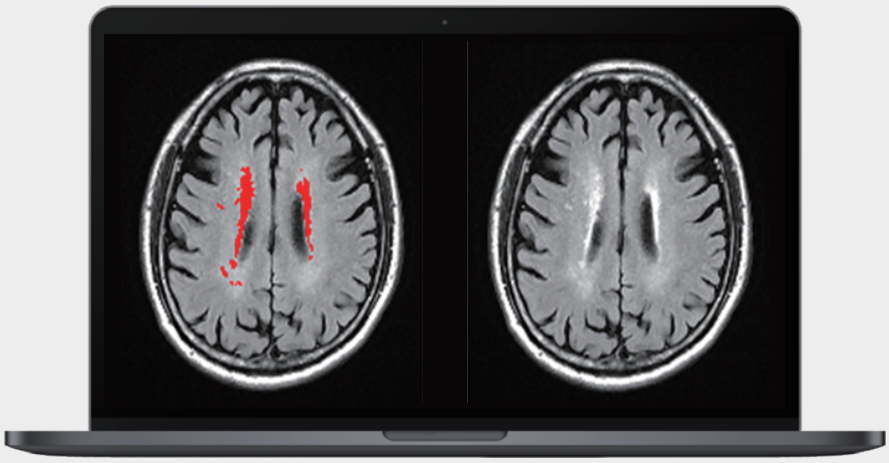


JREG-03K

AI based White Matter Hyper Intensity Solution

Summary

White high-intensity signals in brain regions are found in over 91% of people over the age of 70 and are affected by aging, high blood pressure, and diabetes. The automated detection function can perform quantification on the changes in the volume of the region. This function can be helpful in determining the progression of dementia.

JSEG-03K is a solution that automatically detects high-intensity white areas in the brain. In the brain, when nerves are damaged by alcohol, a white high-intensity signal is shown on the image. If damages get worsen over time, symptoms such as dementia occur. This solution automatically detects the area and measures the white high-intensity signals and provides information such as volume.

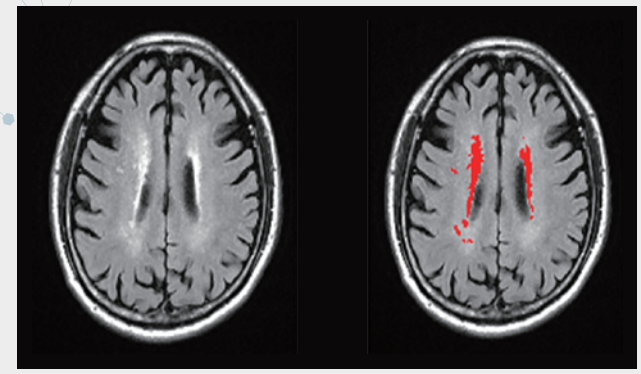
Key Components & Performance

- Analysis Time : within 30 seconds
- Display analysis result within the web-based user interface

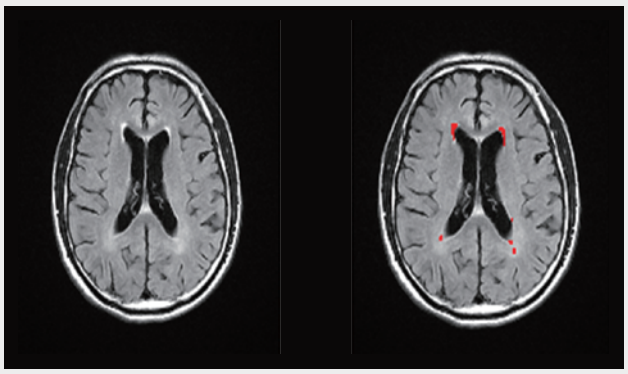
Input / Output

· Input Data	Patient's Brain MRI DICOM (FLAIR) + T1(Optional)
· Output Information	White matter hyperintensity area

Solution UI



1 Brain MRI WMH area case (1)



2 Brain MRI WMH area case (2)

Unique Functionality

- Automated white high intensity signal detection
- Removal of noise area using T1 image
- Volumetric information for follow-up analysis
- Classification of deep white matter and periventricular white matter