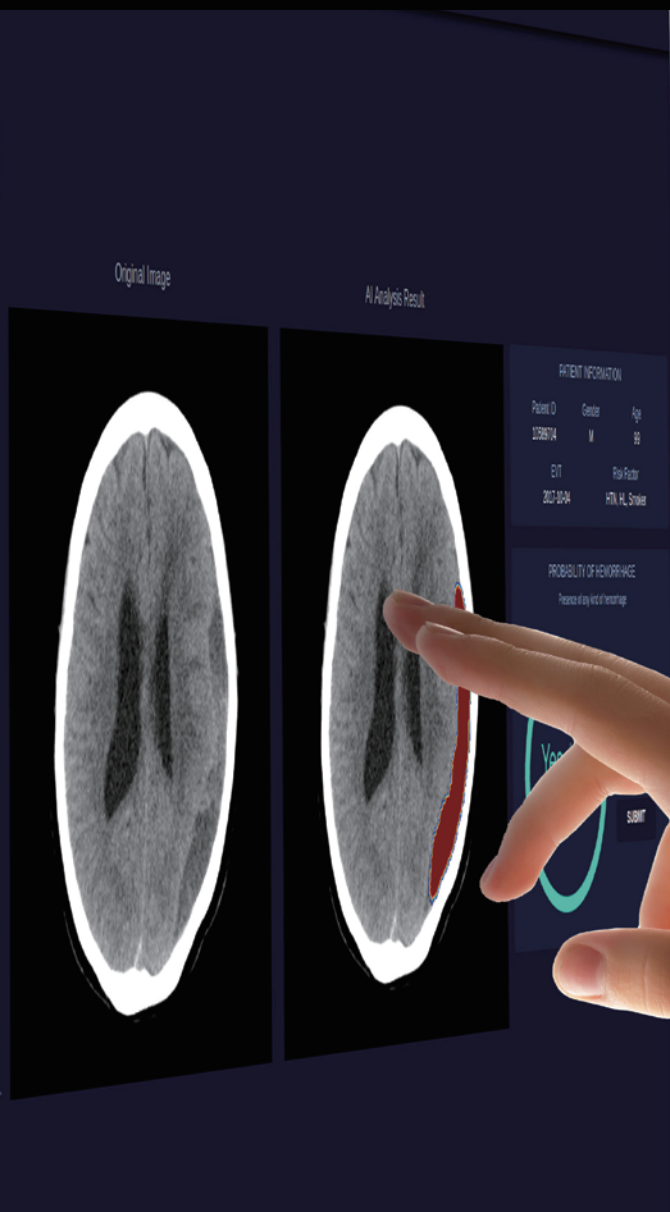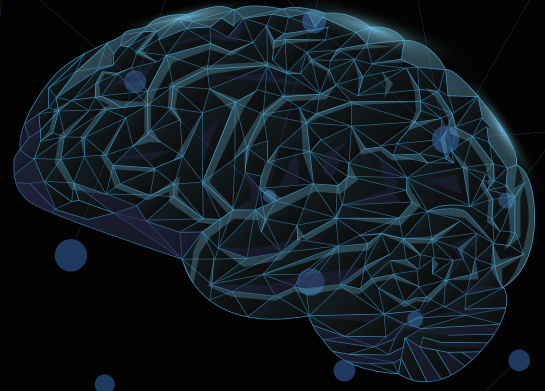# AI for Human Benefit, Everywhere

JBS-03K

AI based Stroke Total Solution

MEDIHUB STROKE

JLK

JBS-03K

AI based Ischemic Stroke Prognosis Prediction Solution

Summary

Treatment strategies for ischemic stroke patients can vary based on the prognosis prediction result. Such information can assist in selecting a proper treatment method for the patient.
JBS-03K is aimed at detecting ischemic lesions for ischemic stroke patients and predicting their prognosis.

It provides the prognosis information by analyzing lesion location and size to provide appropriate treatment for the patients.

Key Components & Performance

· Multi Data Center Dice Coefficient 83.56% / AUC 80.18%
· Analysis Time : within 40 seconds
· Convenient patient data management through PACS interworking
· Display analysis result within the web-based user interface
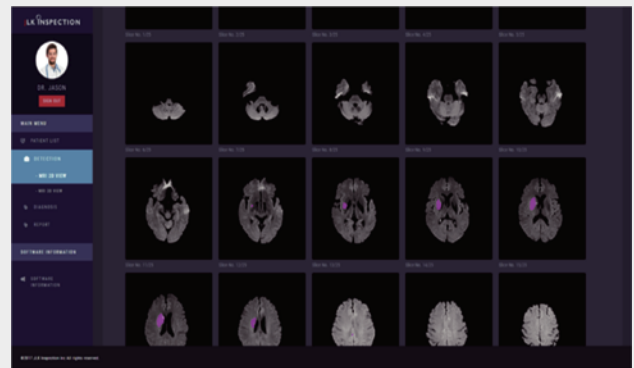· Provide customized patient report

Input / Output

· **Input Data**   Patient Brain MRI DICOM (DWI)
· **Output Information**   Infarct Location, Size and Prognosis Probability
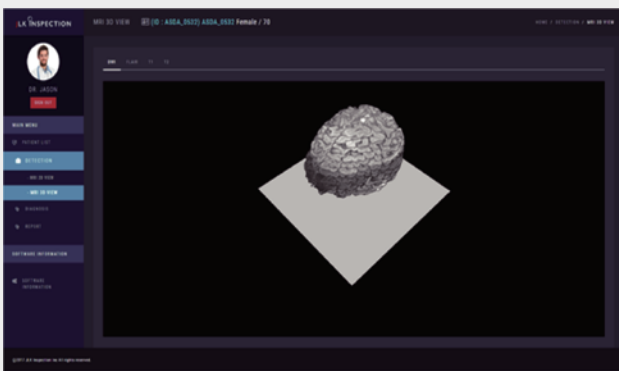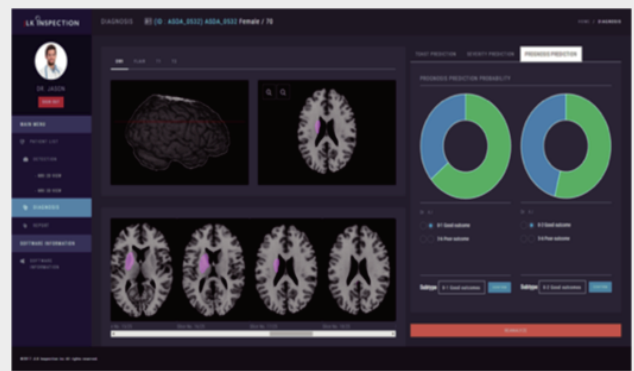
Solution UI
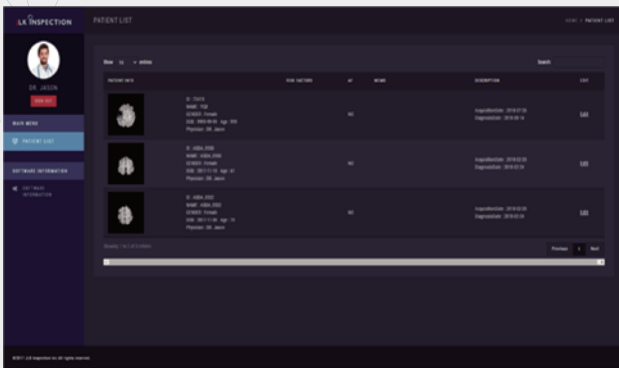
1 Patient List Management UI

2 AI Analysis Result UI (2D View)

3 AI Analysis Result UI (3D View)

4 Ischemic Stroke Prognosis Analysis

Unique Functionality

· Trained to detect whether lesions exist consistently between slices of MR images through 3D CNN segmentation model

· Trained on lesion image which has standardized lesion size and location for severity prediction, prognosis prediction model

· Provides prognosis probability to assist in doctor's final decision

· Trained on more than 50,000 slices of MR images

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