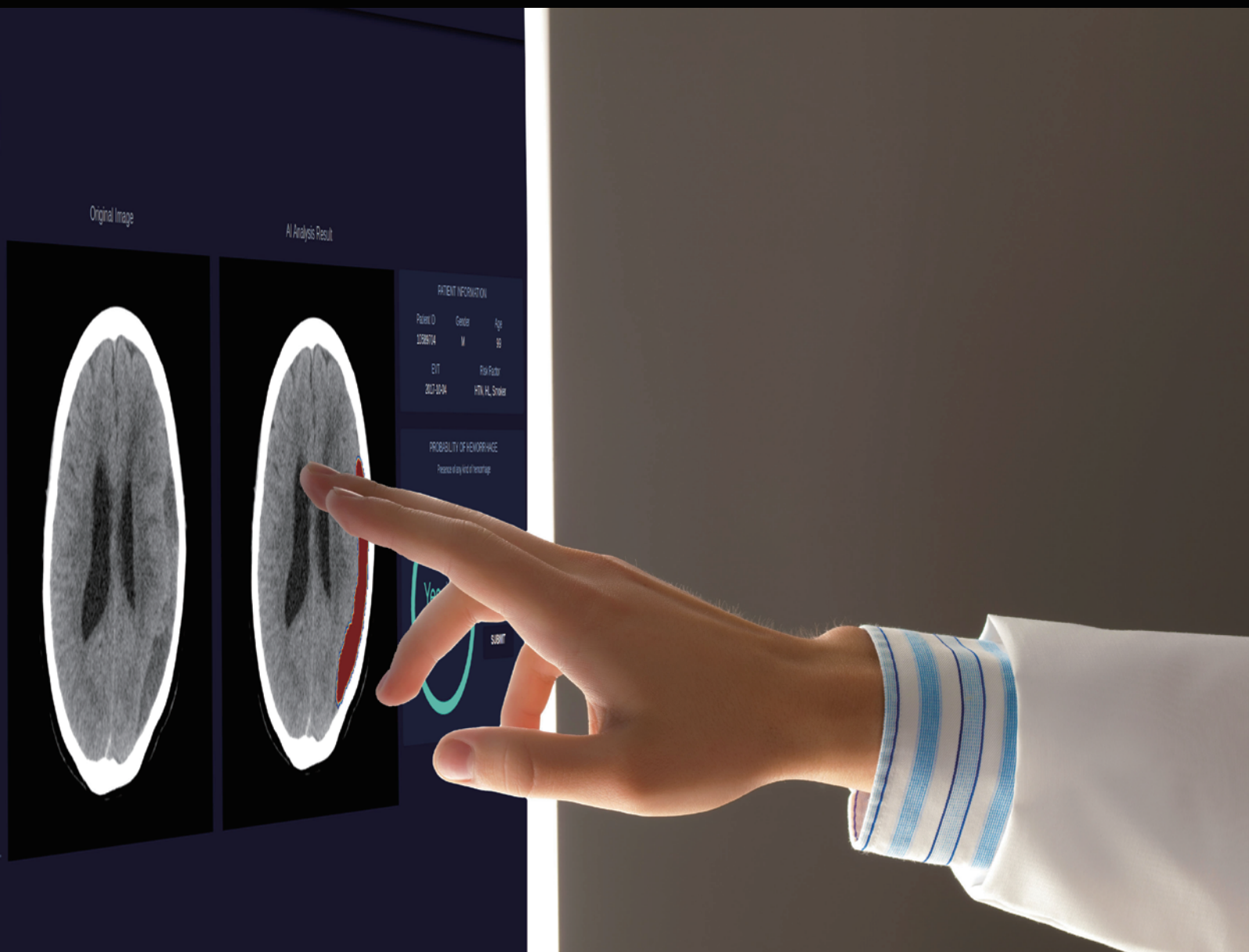
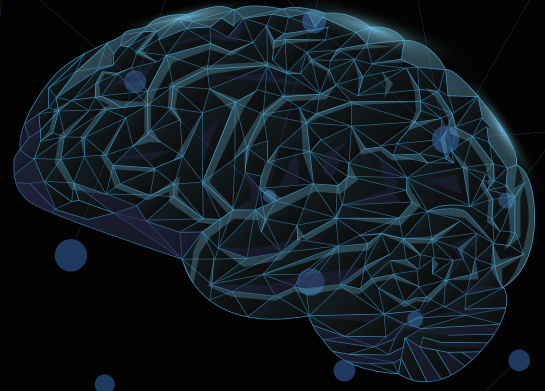


AI for Human Benefit, Everywhere

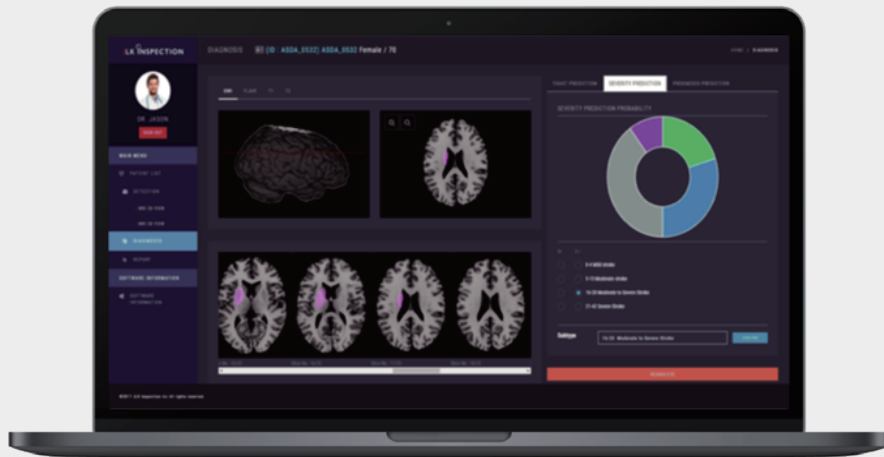
JBS-02K

AI based Stroke Total Solution



MEDIHUB STROKE





JBS-02K

AI based Ischemic Stroke Severity Prediction Solution

| Summary

The severity of ischemic stroke plays an important role in the treatment and management of patients. Observing initial and changes in the severity can help establish an adaptive treatment strategy based on the patient's condition.

JBS-02K is aimed at detecting ischemic lesions in patients and predicting the severity. It provides the prediction on the NIH stroke scale (NIHSS), which is formulated by the National Institutes of Health in the United States, to measure the severity and to provide appropriate treatment.

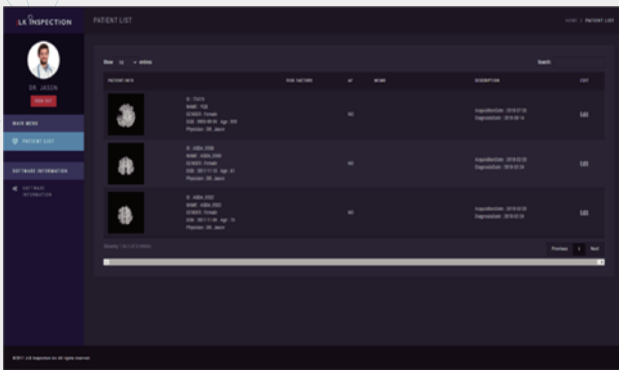
| Key Components & Performance

- Single Data Center Dice Coefficient 83.56%
- 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

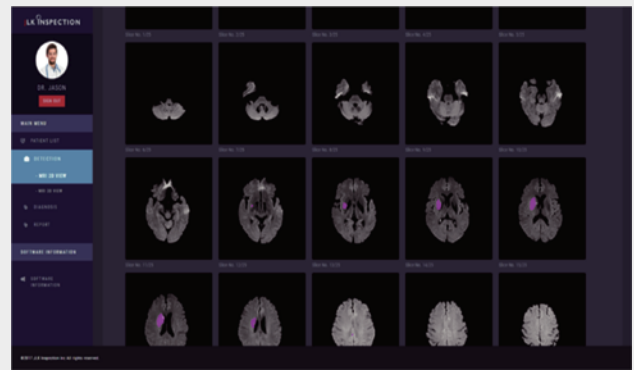
| Input / Output

- **Input Data** Patient Brain MRI DICOM (DWI)
- **Output Information** Ischemic Stroke Severity Probability

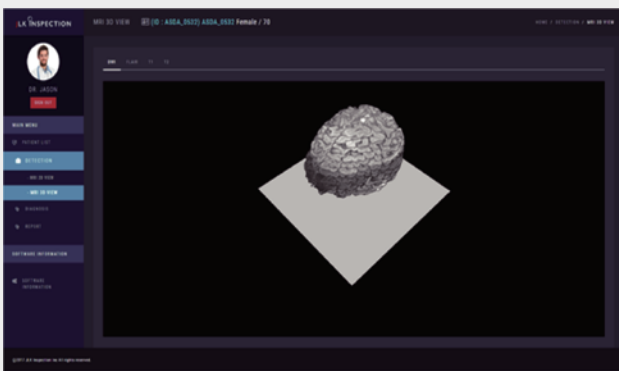
Solution UI



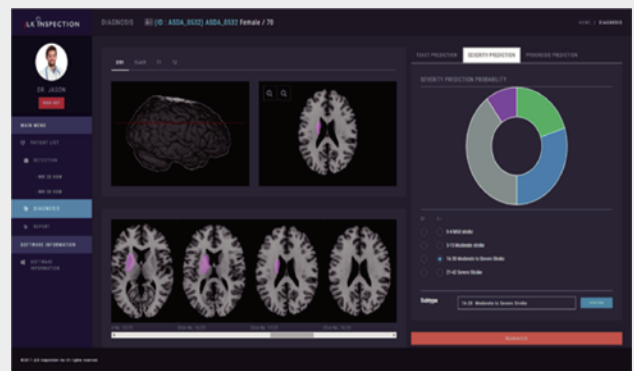
1 Patient List Management UI



2 AI Analysis Result UI (2D View)



3 AI Analysis Result UI (3D View)



4 Ischemic Stroke Subtype Analysis UI

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 severity probability to assist in doctor's final decision
- Trained on more than 50,000 slices of MR images



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