JSEG-01K

AI based Prostate Segmentation Solution

Summary

Prostate segmentation is one of the essential factors for diagnosing prostate cancer & identifying features of prostate areas in MRI. Prostate MRI has a large number of slices, so artificial intelligence assistance is needed to reduce the time required for prostate segmentation.

JSEG-01K is a research-purpose solution that segments prostate areas through analysis of T2 MRI. Transparency can be adjusted to have a clearer depiction of segmentation results.
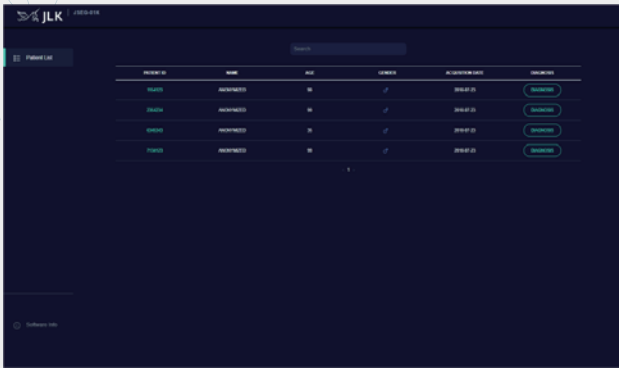
Key Components & Performance

· Single Center Data : Dice Coefficient 89.50%
· Analysis Time : within 60 seconds
· Convenient patient data management through PACS interworking
· Display analysis result within the web-based user interface
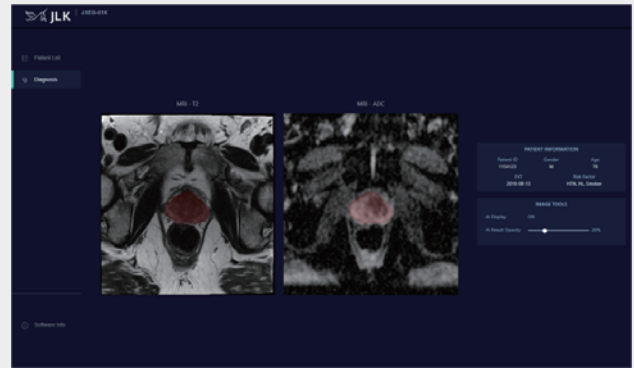· Provide customized patient report

Input / Output

· **Input Data**   Patient Prostate MRI DICOM (T2)
· **Output Information**   Prostate segmentation results
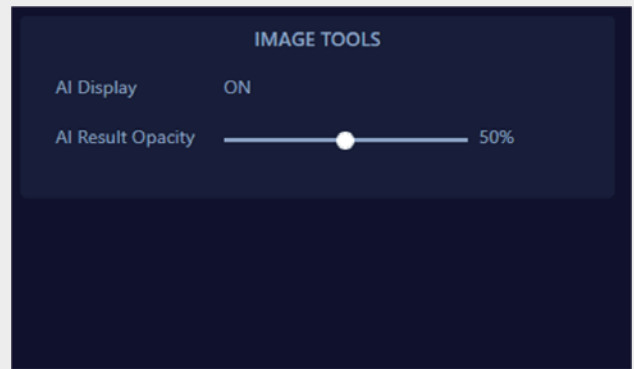
Solution UI

1 Managing registered patient UI

2 AI analysis results UI

3 Patient Information UI

4 AI result adjustment UI

Unique Functionality

· Provide prostate segmentation with AI-based T2 MRI analysis

· Provide assistance for prostate region analysis through T2, ADC MRI viewer

· Provide accurate analysis and research assistance through check patient information

· Provide functions for AI result adjustment

· Provide functions to manage registered patients