HOSMARTAI

AI for the smart hospital of the future

Innovative platform for the development and adoption of reliable AI-based solutions for healthcare

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ASSESSMENT OF LEFT VENTRICLE FUNCTION WITH ECHOCARDIOGRAPHY (ECHO

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THE STARTING PROBLEM

Many variables must be taken in account for establishing serial appointments for a radiotherapy. The staff in charge of the appointment planning have reached the limit of human treatment capacity,

THE PILOT SOLUTION

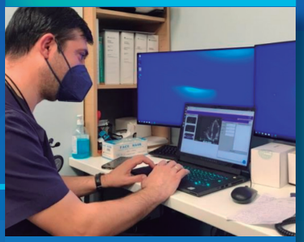
A web- based solution that provides automatic calculation of two significant metrics for assessing cardiac function

The doctor imports an echocardiography DICOM file to the software to calculate the metrics of interest and review theexamination.

The doctor requests the AI to automatically calculate the left ventricle ejection fraction and longitudinal strain.

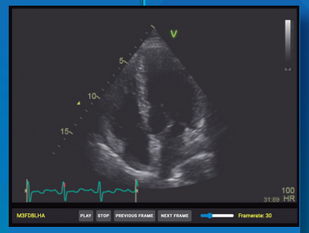
The doctor reviews the examination adding comments regarding the AI outcomes and saves the review for future reference.

RESULTS AND IMPROVEMENTS



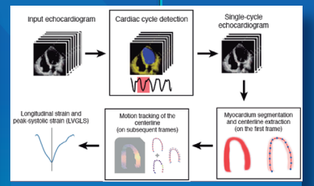
Improving the echocardiography laboratory services via reducing the interobserver variability in assessing cardiac function

1



The software application reads the DICOM file and present its content to the user with a user- friendly manner.

2



The software application executes its AI models to result the requested metrics.

3

The software manages the AI outcomes and the user input and extracts them in a format that is both human and machine readable