DETECT ABNORMALITIES FASTER THAN EVER

Chest Assist: AI Device for Detecting Multiple Chest Pathologies

Chest Assist is a deep-learning-based software device that analyzes chest X-ray studies for signs of pneumonia, pneumothorax, pleural effusion, mass & nodules, and cardiomegaly. Chest Assist accepts PA/AP view adult chest Radiographs DICOM files as input and provides a priority flag indicating positive studies. It generates a preliminary report, ready for refinement by the radiologist, streamlining the reporting process for maximum efficiency.

Chest Assist is capable of detecting 5 clinically significant findings with an overall accuracy upto 94%.

INTEGRATION

- **RIS**
- **PACS**
- **AI marketplace or distribution platform**

DEPLOYMENT

- **On-premise**
- **Cloud based**
- **Hybrid Solution**

Subspeciality: Chest

Modality: X-Ray

Pathalogy targeted: Pneumonia, Pneumothorax, Pleural Effusion, Cardiomegaly & Mass & Nodules
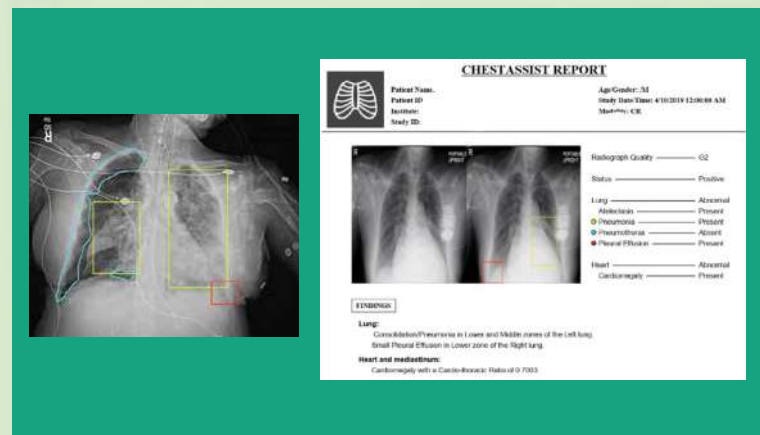
Input: Digital Chest X-ray Images (PA/AP)

Input format: DICOM

Processing time: 1 - 5mins

Output: Triage notification, worklist highlight, Segmentation overlay, draft radiology report, Structured report

Output format: DOC, PDF, DICOM secondary capture, JSON, HL7, DICOM Structured Report (SR)

Detection
Chest pathology detection, worklist prioritization, report generation

Suggestion
Adapting worklist order, flagging acute findings

Support
Interactive decision support (shows abnormalities/results only on demand), report suggestion