

# Augmented Detection, Enhanced Workflow

Lunit INSIGHT CXR is a state-of-the-art AI solution for chest x-ray that detects 10 different radiologic findings with 97-99% accuracy.

## ✓ Accurate and Efficient Reading

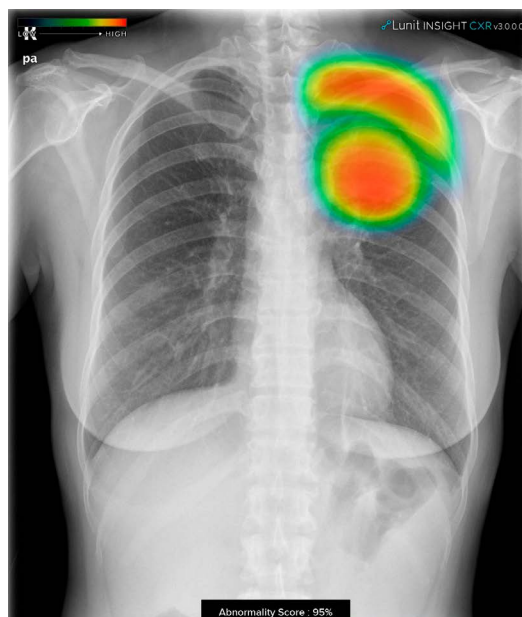
- 97-99% Detection Accuracy
- Max 20% Increase in Reading Performance

## ✓ Seamless Workflow Optimization

- PACS Integration Supported
- Worklist Triage Feature Available

## ✓ Validated in Major Publications

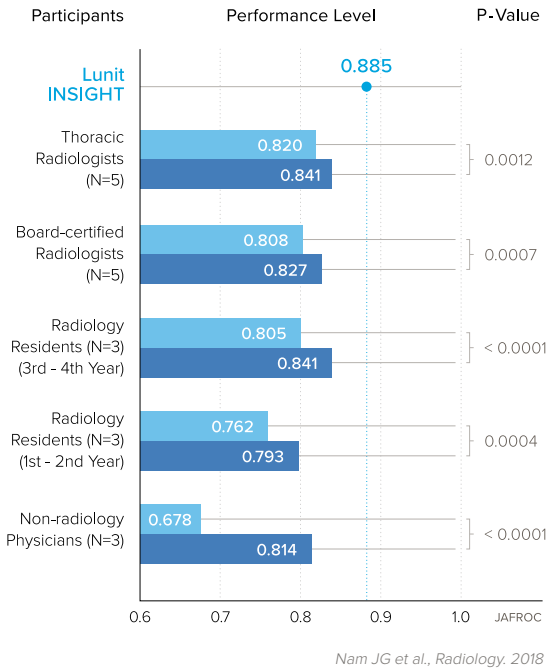
- *European Radiology* 2019
- *Radiology* 2019
- *Scientific Reports* 2019
- *JAMA Network Open* 2019
- *Clinical Infectious Diseases* 2018
- *Radiology* 2018



## PERFORMANCE SUMMARY

Lunit INSIGHT CXR boasts superior accuracy in the detection of major lung abnormalities in a chest x-ray image, with an average accuracy of 98.7%. Our studies show that with Lunit INSIGHT CXR, the reading performance of a physician can increase by 20% at the highest.

### Reader Performance



■ Human Only  
■ Human + Lunit INSIGHT

### Accuracy by Radiologic Finding (N=2,992)

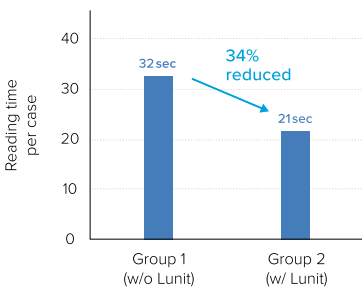
Finding	Accuracy (%)	Finding	Accuracy (%)
Atelectasis	99.4	Mediastinal Widening	98.5
Calcification	97.7	Nodule	97.6
Cardiomegaly	98.9	Pleural Effusion	99.7
Consolidation	98.6	Pneumoperitoneum	99.9
Fibrosis	98.8	Pneumothorax	99.7
<b>Normal vs Abnormal</b>		<b>Accuracy</b>	<b>97.2</b>

Internal Validation, October 2019

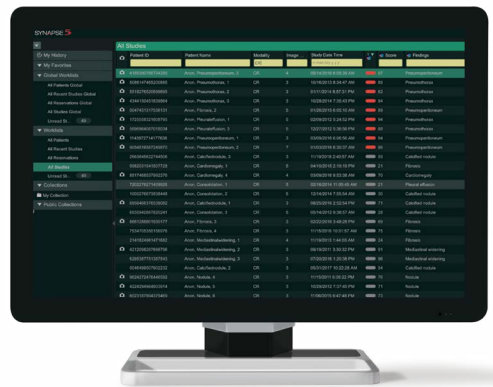
\* Lunit INSIGHT CXR 3 detects all of the above 10 findings (customizable)

\* Lunit INSIGHT CXR 2 detects only the following 3 findings : lung nodule/mass, consolidation and pneumothorax.

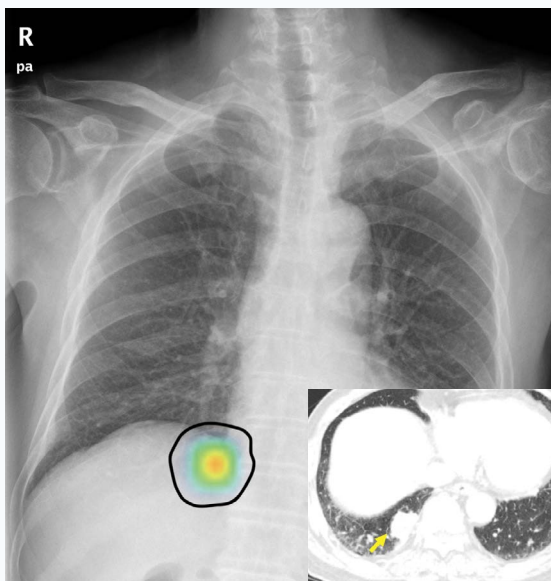
## WORKFLOW IMPROVEMENT WITH TRIAGE



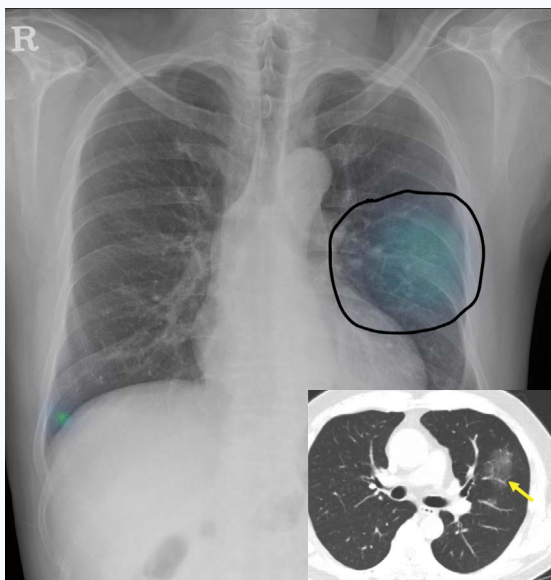
\* Available on selected PACS only



## CLINICAL CASES



**CASE 1** Lung cancer located in the right lower lobe.  
Only 5 out of 10 radiologists detected this w/o Lunit. **With Lunit, 9 were able to detect.**



**CASE 2** Pneumonia located in the left middle lung area.  
None of 10 radiologists detected this w/o Lunit. **With Lunit, 5 were able to detect.**