Lunit INSIGHT® CXR4

CE 2797

Chest X-ray AI: ONE solution for your entire CXR pathway

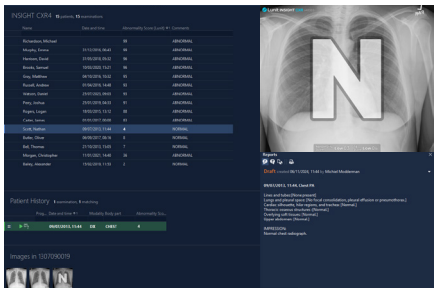
Proven accuracy, complete efficiency

Maximise your productivity with powerful new features designed to make reading chest x-rays easier and faster.

More findings in less time

With upgraded features, Lunit INSIGHT CXR4 helps clinicians streamline workflows and manage caseloads efficiently by quickly identifying high-confidence normal cases and detecting suspicious exams to expedite patient care.

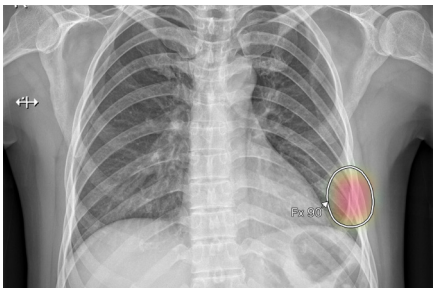
Normal flagging



Enjoy effortless workflow for high confidence normal cases* with normal flagging and normal case report generation.

*21-40.4% of all cases[1] varies by clinical setting

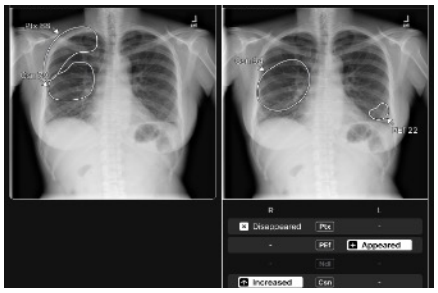
Abnormality detection



Gain confidence in reporting abnormal CXRs with support for major thoracic abnormalities*, including acute findings.

* Nodule, consolidation, pneumothorax, pneumoperitoneum, pleural effusion, mediastinal widening, cardiomegaly, calcification, fibrosis, atelectasis, acute bone fracture (clavicle, scapula, humerus, ribs) plus supports tuberculosis screening

Current-Prior Comparison



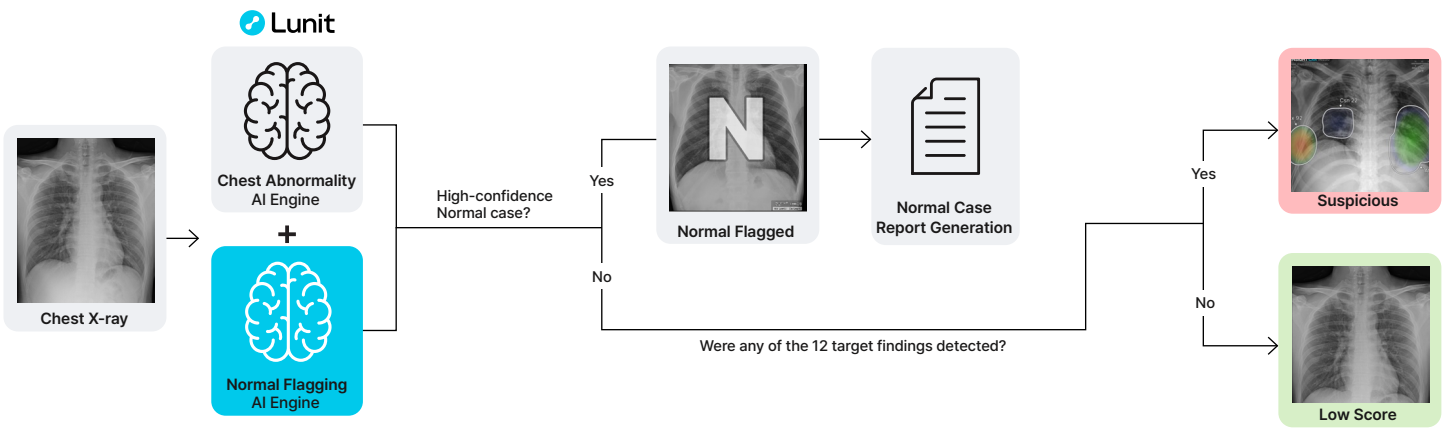
Achieve easy comparison of priors to detect changes to guide the next step of your diagnosis.

Available for pneumothorax, nodule, consolidation and pleural effusion.

A new superpower in CXR interpretation

Introducing the Lunit INSIGHT CXR4 **DualScan system**: An advanced AI solution that combines the **Chest Abnormality** engine with the new **Normal Flagging** engine to deliver unparalleled accuracy and efficiency.

- Trained on over 1.2 million images, Lunit INSIGHT CXR4 has a sensitivity of 99.7% and a negative predictive value of 99.5%[2]
- The DualScan system enhances efficiency by flagging high-confidence normal cases, enabling more streamlined reading and reducing radiologist workload.



Chest Abnormality AI engine findings - Nodule, consolidation, pneumothorax, pneumoperitoneum, pleural effusion, mediastinal widening, cardiomegaly, calcification, fibrosis, atelectasis, acute bone fracture (clavicle, scapula, humerus, ribs) plus supports tuberculosis screening

Interested in Lunit INSIGHT CXR?
Contact your Lunit representative, or reach out to us: insight@lunit.io

Lunit

Performance you can trust

-38%
Reduction in reading time on CXRs[3]

-81%
Reduction in time-to-report for critical patients[4]

+10%
Increase in lung cancers found on CXRs[5]

+20%
Increase in non-radiology physicians' accuracy[4]

AUC comparison without and with Lunit AI, stratified by specialty and pathology

"There was a case where Lunit AI detected a nodule in the chest x-ray taken before bile duct cancer surgery. The patient was very satisfied with the AI diagnosis."

- **Dr. Eun-Hye Lee**
  Pulmonology and Allergy Dept.,
  Yongin Severance Hospital, South Korea

Meeting the needs of a variety of x-ray clinical settings

Radiologists & Physicians

Faster, smarter, and more consistent care

- Save time & cut backlogs with automated normal flagging and normal case report generation.
- Boost precision & consistency by reducing variation across readers.
- Diagnose earlier with AI-powered prior comparisons.

Public Health & Screening Programs

Scalable screening, earlier care

- Proven performance in TB, lung cancer & routine check programs.
- Catch what matters with AI-flagged abnormalities and incidental findings.
- Cut workload by automating normal reports and streamlining high-volume screenings.
- Enable early action to improve outcomes and public health impact.

Emergency & ICU

Faster answers, better outcomes

- Smarter workflows with AI scores integrated into worklists, allowing focus on critical cases.
- Accelerated care with faster time-to-report for urgent cases.
- Lower costs by reducing dependence on remote reading centres.
- Support for non-radiologists in rural or resource-limited settings.

Data insights on demand

INSIGHT Manager 2.0 is a powerful AI quality assurance tool that delivers a comprehensive view of AI performance, enabling continuous optimisation through smarter value setting. New enhancements include detailed performance metrics, input/output data tracking and application monitoring.

Invest in the future with the enhanced capabilities of CXR4.

References:
1. Lee, S., L. Dillard, (2023). Detecting Normals More Safely: Using two different AI algorithms to filter normal chest X-rays and creating complementary effect of safety net. Abstract presented at the RSNA Annual Meeting, Chicago, IL
2. LUN_CXR_NF_221 version 1.4 Retrospective, Standalone Study to Evaluate Standalone Performance of Lunit INSIGHT CXR in Reporting of Normal Chest Radiographs
3. Kim, et al., "Clinical Validation of a Deep Learning Algorithm for Detection of Pneumonia on Chest Radiographs in Emergency Department Patients with Acute Febrile Respiratory Illness", Journal of Clinical Medicine, 2020
4. Nam, et al., "Development and validation of a deep learning algorithm detecting 10 common abnormalities on chest radiographs", European Respiratory Journal 2020
5. Jang, et al., Radiology 2020 Jang, et al., "Deep Learning-based Automatic Detection Algorithm for Reducing Overlooked Lung Cancers on Chest Radiographs", Radiology 2020
6. Kicky G. van Leeuwen, MSc et al. - Radiology 2024
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