



Chest X-Ray Solution

Intelligent Healthcare



Nanox.AI Chest X-Ray Solution

OFF YOUR CHEST...

Pneumothorax and Pneumoperitoneum are two critical conditions identified on chest X-rays where every minute counts for optimal patient care.

Pneumothorax, free air in the chest cavity, can quickly enlarge and become life threatening if not treated on time. They can be spontaneous, caused by trauma or in hospitalized patients are often iatrogenic — secondary to a medical procedure. Over 30% of pneumothoraces are missed on standard chest X-rays.^[1]

Pneumoperitoneum is free air in the abdominal cavity, frequently visualized on a chest X-ray. While the most common etiology is a recent surgical procedure, free air may be a sign of bowel perforation, requiring immediate medical attention.

Typically, radiology worklists are read first-in first-out which means that cases with significant abnormalities such as pneumothorax and pneumoperitoneum often wait while less urgent studies are reported. In addition, as many chest X rays are normal, subtle findings of these urgent conditions are more easily missed.

Nanox.AI analyzes all the Chest X-Rays in the queue and prioritizes cases with an AI detected pneumothorax and pneumoperitoneum (510k pending) so patients can get the medical attention they need efficiently.

[1] The radiologic evaluation of the patient with suspected pulmonary thromboembolic disease, M J Kelley, L P Elliott, PMID: 1088970 DOI: 10.1016/s0025-7125(16)32054-5

THE SOLUTION

Nanox.AI's Chest Solution identifies suspected Pneumothorax and Pneumoperitoneum. These insights are then prioritized when shown on the PACS workstation and worklist.

HOW IT WORKS



Nanox.AI receives Chest X-Rays from the PACS.



The Nanox.AI Chest X-Ray Solution automatically analyzes images in seconds.



Each AI detected case of Pneumothorax or Pneumoperitoneum is flagged by the algorithm with the suspected clinical finding and sent to the radiologist worklist.



Radiologists are alerted on acute cases so they can give them immediate attention, read, and confirm findings.



Patients in critical condition are directed to the emergency care they need.

VISUALIZED INSIGHTS

Where available, annotated images can be added into the study as secondary captures for closer review by the radiologist.



Figure A - Pneumothorax



Figure B - Pneumoperitoneum

*Not currently available for the EU Market

Technology And Installation

Chest X-Rays are forwarded from the PACS and sent anonymously to the cloud-based Nanox.AI Analytics platform.

Nanox.AI's Chest X-Ray Solution automatically analyzes all adult chest x-rays, identifying signs of pneumothorax and pneumoperitoneum, flagging them. Radiologists receive cases for review flagged and prioritized at the top of the PACS worklist at the workstation, then prepare their report and recommendations.

Nanox.AI integrates seamlessly with any PACS system, and can be installed on the cloud or on-premises.

All Nanox.AI solutions are GDPR and HIPAA compliant.



We invite you to request a demo →

www.nanox.vision/ai
Contact Us: info.ai@nanox.vision



Neuro Solution

Intelligent Healthcare

Lighting Up the Path to Smarter Triage

For years, Nanox.AI's solutions have helped physicians and healthcare providers save lives. In both acute and long-term settings, Nanox.AI is now transforming patient care.

Intracranial Hemorrhage

Intracranial Hemorrhage (ICH) can occur as a result of traumatic intracranial injury (falls, accidents, etc), ruptured arteries (aneurysms), stroke or cancer. Regardless of the cause, timely and accurate diagnosis of an active bleed is essential for a successful patient outcome. Acute cases require urgent attention, and Nanox.AI's solutions can help prioritize them for immediate reading. Nanox.AI's triage solutions integrate directly with the primary worklist radiologists use as part of their clinical workflow.

The Solution

Nanox.AI's Neuro Solution assists hospital networks and trained radiologists in workflow triage. The algorithm analyzes non-contrast head CT scan images quickly and reliably, alerting for suspected ICH. These insights are shown on the PACS workstation worklist or PACS as a secondary capture.

HOW IT WORKS



Nanox.AI receives CT head scans from the PACS



The Nanox.AI Neuro Solution automatically analyzes images in seconds.



Positive cases of ICH are flagged by the algorithm and an alert is sent to the radiologist worklist.



Radiologists can give these cases immediate attention, analyze and confirm findings.



Patients in critical condition are directed to the emergency care they need.

WHO BENEFITS AND WHY



THE VALUE

1 **Saving Critical Time**
Faster detection of acute findings through prioritization.

2 **An Extra Safety Net**
Increased confidence through an additional layer of intelligence.

Technology and Installation

Non-contrast head CT scans are forwarded from the PACS and sent anonymously to the cloud-based Nanox.AI Analytics platform.

Nanox.AI's Neuro Solution automatically analyzes them them, identifying and alerting on cases where ICH is detected in the scan. Radiologists review the Nanox.AI results available to them in the PACS at the workstation, then analyze the study and issue a diagnostic report.

Nanox.AI integrates seamlessly with any PACS system, and can be installed on the cloud or on-premises.

FDA cleared and **CE** Marked

All Nanox.AI solutions are GDPR and HIPAA compliant.

Version 4.6.13, October 26, 2021



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