



JOINT PRESS RELEASE

National Healthcare Group Partners Lunit Inc. to Enhance Patient Care with AI-Powered Chest X-Ray Solution

Singapore, 14 August, 2024 — The National Healthcare Group (NHG) and Lunit (KRX:328130.KQ) announced today their partnership to integrate an AI-powered chest X-ray (CXR) analysis solution, Lunit INSIGHT CXR, into NHG's diagnostic radiology systems for use in primary care. Lunit INSIGHT CXR will help enhance the diagnosis of lung and heart conditions by rapidly identifying and prioritising CXRs with significant abnormalities, which in turn facilitates a smooth and efficient triaging process for patients.

Currently, CXRs performed at NHG Polyclinics are reviewed, analysed, and interpreted by radiologists at NHG's hospitals. With imaging volumes having increased over the years, there is a need to leverage on technology and innovation to complement the skillsets of radiologists for frontline clinical care.

Highlighting the potential of AI-enabled radiology, Associate Professor Tan Cher Heng, Chief Research and Innovation Officer at NHG, and Principal Investigator for the trial, said, "The application of AI to chest X-ray interpretation is mature, but its adoption has been slow. Proper integration of AI can support frontline medical practitioners by extending radiologists' expertise, ultimately benefitting NHG's patients. We believe that using Lunit INSIGHT CXR as a triaging tool can help NHG's Family Physicians manage their patients more efficiently, reducing wait times for discharge or referral to higher acuity facilities."

Enhancing Efficiency and Patient Care

The use of this AI solution for CXRs can potentially improve reporting efficiency for radiologists, freeing up their time for more complex work. The AI system flags CXRs with significant abnormalities, prioritising these cases for faster reporting. This enables physicians to make earlier diagnoses and expedite the management of these patients.

Initial Pilot

An initial pilot phase for Lunit INSIGHT CXR will run at Geylang Polyclinic from October 2024 until August 2025. Based on the findings, the AI system may be fully deployed to additional NHG Polyclinics, marking a significant advancement in primary care capabilities. Said Dr Lim Chee Kong, Co-Investigator for the project, and Director of Clinical Services at NHG Polyclinics, "Through this pilot project, we aim to empower our Family Physicians with a tool for earlier detection of conditions, facilitating timely intervention and ultimately improving patient outcomes."

The deployment of Lunit INSIGHT CXR will be through Singapore's national radiology AI platform (AimSG), supported by Synapse. Its deployment builds on Lunit's success in Sweden, where Lunit's AI became the first to replace one of two human readers in breast cancer screening. This achievement demonstrated AI's potential in transforming diagnostic workflows fundamentally.

The Lunit INSIGHT CXR initiative, which is supported by funding from the National Health Innovation Centre Singapore, will help revolutionise CXR triaging for care services in Singapore, setting a new standard for efficiency and accuracy for NHG's polyclinics and hospitals.

Looking Ahead

"We are thrilled to partner NHG on this pioneering initiative," said Brandon Suh, CEO of Lunit. "By leveraging our AI technology, we aim to streamline Singapore's chest imaging triaging process, ensure timely reporting of significant findings, optimise resource allocation, and ultimately enhance patient care."

Added A/Prof Tan Cher Heng, "This partnership between Lunit and NHG, which has been facilitated by NHG's Centre for Medical Technologies and Innovations, leverages NHG's strong culture of innovation and multidisciplinary expertise. It showcases the potential of AI technologies in translating into practical solutions for better healthcare delivery and patient care."

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About the National Healthcare Group

The National Healthcare Group (NHG) is a leader in public healthcare in Singapore recognised for delivering high value patient care. Our clinical services are provided through an integrated system of primary care polyclinics, acute care tertiary hospitals, community hospitals, national specialty centres, and community-based ambulatory care centres. Together, we provide comprehensive, holistic, and innovative healthcare to address the needs of our patients and the population we serve. As a learning organisation, we are establishing ourselves as an academic health system to drive clinical excellence, raise research intensity and grow our academic partnerships so as to continually improve the way we deliver care to our patients.

As the Regional Health Manager for 1.5 million residents in Central and North Singapore, NHG collaborates with private general practices, public and community health and social care providers to keep residents well and healthy.

With more than 20,000 healthcare professionals in NHG, we are committed towards building healthier and resilient communities, and Adding Years of Healthy Life to the people we serve.

More information is available at www.nhg.com.sg.

About Lunit

Founded in 2013, Lunit is a medical AI company on a mission to conquer cancer. We harness AI-powered medical image analytics and AI biomarkers to ensure accurate diagnosis and optimal treatment for each cancer patient. Our FDA-cleared Lunit INSIGHT suite for cancer screening serves over 3,000 hospitals and medical institutions across 40+ countries.

Our clinical findings are featured in top journals, including the Journal of Clinical Oncology and the Lancet Digital Health, and presented at global conferences such as the ASCO and RSNA.

In 2024, Lunit acquired Volpara Health Technologies, setting the stage for unparalleled synergy and accuracy, particularly in breast health and screening technologies.

Headquartered in Seoul, South Korea, with a network of offices worldwide, Lunit leads the global fight against cancer. Discover more at lunit.io.