BioSpectrum
the business of Bio & Health Sciences
ASIA EDITION

Sengkang General Hospital introduces Siemens Healthineers photon-counting CT scanner in Singapore

25 April 2025 | News

Lower radiation exposure, especially beneficial for patients needing frequent scans or those sensitive to radiation

Sengkang General Hospital (SKH), in Singapore, has launched a new Siemens Healthineers photon-counting computed tomography (CT) scanner, strengthening its imaging capabilities to enhance diagnostic precision and confidence for better patient care. This next generation technology delivers highly detailed submillimetre images with improved contrast using less radiation compared to conventional CT scanners.

The Siemens Healthineers NAEOTOM Alpha is a Dual-Source Photon-Counting Computed Tomography (PCCT) system that uses advanced photon-counting detector technology. Unlike traditional CT scanners, which convert X-rays into visible light before creating images, this new system directly converts X-ray photons into digital signals with lower radiation.

This means safer scans for patients, along with sharper imaging that helps doctors detect and better understand complex conditions. From heart and brain vessel enhancement to delicate internal ear evaluation, this technology opens new possibilities in precision diagnostics and patient care.

Professor Teo Eng Kiong, Chief Executive Officer, SKH shares, "This advanced imaging system demonstrates our commitment to provide value-based care – enhancing care while optimising resources – for our patients. Delivering clearer images with lower radiation, the photon-counting CT scanner helps to improve both the effectiveness and efficiency of care through early disease detection and intervention. With over 1,800 successful cases since November 2024, we are seeing how this technology helps us build a more resilient healthcare system that serves our patients' needs today and tomorrow."

Siow Ai Li, Managing Director, Siemens Healthineers Singapore and Malaysia said, "With this next generation Photon-counting CT technology, we aim to empower clinicians and radiologists with sharper insights that elevate diagnostic precision and treatment across various clinical disciplines, such as cardiology, pulmonology, and oncology."