



養和醫院

HONG KONG SANATORIUM & HOSPITAL

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## Hong Kong Sanatorium & Hospital Introduces First High Definition, Low Dose CT Scanner to Asia

Breakthrough in HDCT Technology Benefits the Public



(21 April 2009, Hong Kong) The Hong Kong Sanatorium and Hospital (HKSH) today introduced the latest addition to its leading diagnosis capabilities – the High Definition (HD) CT technology of the GE Discovery CT750 HD scanner. HKSH is the first hospital in Asia to adopt the Discovery CT750 HD scanner.

GE further engineered the CT scanner to improve image quality and further reduced the radiation dose to a level far below that required for diagnostic studies. The redesign enables the HDCT scanner to deliver an improvement in image quality of up to 33% for body scans and up to 47% for cardiac scans compared to previous GE products. The enhanced image resolution is best in class and provides the capability not only to diagnose accurately stenosis in coronary and vascular vessels, but also to accurately diagnose problems throughout the body.

Equally important, the Discovery CT750 HD offers a dramatically reduced dose for patients. The scanner's advanced reconstruction algorithm can be used to decrease the noise in diagnostic images and thereby reduce the radiation required. The result is an improvement in image quality at 80% lower dose for cardiac scan and 50 – 85% lower dose for other parts of the body.

HKSH is currently the only hospital in Hong Kong to offer this revolutionary new application of High Definition technology. The hospital will provide this innovative technology at no additional cost to patients.

“Hong Kong Sanatorium & Hospital is committed to providing people in Hong Kong with fast, accurate and reliable diagnosis using the state-of-the-art equipment. We are always looking to improve patient care and are delighted to be the first hospital in Asia to adopt this exciting new technology,” said Dr. Kwong Kwok Hay, Deputy Medical Superintendent of HKSH.

“We have been impressed with the clarity of images generated by the Discovery CT750 HD scanner and also welcome the HDCT scanner's ability to further reduce the radiation burden on our patients,” said Dr. Gladys Lo, Radiologist-in-Charge, Department of Diagnostic & Interventional Radiology of HKSH.



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The breakthrough in CT scanning is accomplished by GE's leading edge CT technology, which comprises 4 major elements: Performix HD Tube, Gemstone Detector, Data Acquisition System and Adaptive Statistical Iterative Reconstruction (ASIR). In particular, the Gemstone Detector is an essential component for the novel dual energy application that provides image contrast optimization and the flexibility for clinicians to select the best out of the 101 images during a CT scan. The application efficiently eliminates problems associated with CT scans such as beam-hardening effect and metallic objects inside the patient's body, which cause unclarity in the images. Reading a 100 times faster than scintillators available with other competitive products, the use of Gemstone offers a great enhancement in CT scanning speed – the fastest primary speed in the CT industry.

Dr. Lo concluded, "The new HDCT Scanner and the introduction of projection-based dual energy data processing will provide our hospital unprecedented diagnostic support and make the dream of truly quantitative CT exams a reality."

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#### **About Hong Kong Sanatorium & Hospital**

Hong Kong Sanatorium & Hospital (HKSH) is one of the leading private hospitals in Hong Kong. It is owned by the Li Shu Fan Medical Foundation (LSFMF), which is a not-for-profit organization. HKSH is committed to fulfilling LSFMF's vision of providing quality health care and advancing medical education and research, with an overriding concern for the public good.

For more details, please visit [www.hksh.com/eng](http://www.hksh.com/eng).

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