



養和醫療
HKSH MEDICAL GROUP

For Immediate Release

HKSH Medical Group Collaborates with Siemens Healthineers to Pioneer Asia's First Photon-Counting CT Simulator for the Advancement of Proton Therapy Precision

(30 October 2025, Hong Kong) HKSH Medical Group (HKSH), having installed Asia's first Photon-Counting Computed Tomography Simulator (PCCT-Sim) in August 2025, signed a Memorandum of Understanding (MOU) with Siemens Healthineers, the world's first innovator of photon-counting technology, at a ceremony held on 21 October 2025. This collaboration represents a shared vision to elevate medical imaging excellence and drive diagnostic and treatment precision for radiotherapy and proton therapy, ultimately transforming the future of major diseases' care. It also establishes HKSH as the exclusive Siemens Healthineers Research Centre in Hong Kong for the groundbreaking next-generation imaging using photon-counting technology.

The agreement was signed by **Mr. Wyman LI, Chief Operating Officer of HKSH Medical Group and Director of Hong Kong Sanatorium & Hospital**, and **Mr. Jerry WANG, President of Region China, Siemens Healthineers**, with **Mr. CHEN Wei Hsu, Head of Business Development of HKSH Medical Group**, and **Mr. Mike YUEN, Vice President of Hong Kong, Siemens Healthineers**, serving as witnesses. Under the MOU, HKSH and Siemens Healthineers will collaborate in the integration of Next-Generation Imaging technologies, including PCCT, into the fields of advanced radiotherapy and proton therapy for the optimisation of clinical workflows, research, and patient care. The two parties will drive the advancement of AI-driven reconstruction and spectral imaging to improve diagnosis and treatment. The primary focus will be leveraging on PCCT's superior quantitative data to improve the accuracy of proton stopping power calculations, which is essential for optimising dose delivery in proton therapy. HKSH and Siemens Healthineers will also extend the integration of these innovative imaging solutions into clinical workflows across oncology, cardiology, and neurology to further enhance treatment and monitor response.

Mr. Wyman LI, stated at the ceremony that "Introducing Hong Kong's only and the Greater Bay Area's first proton therapy system in 2023, HKSH is committed to the relentless pursuit of ever-higher precision in major diseases treatment using proton therapy. Precision is the essence when it comes to major diseases treatment and we need the highest quality of imaging to achieve this. When Siemens Healthineers developed photon-counting technology for diagnostic imaging, our HKSH team inquired about its potential for therapeutic simulation and treatment planning. It sparked a strengthened collaboration, which ultimately led to the development and launch of Asia's first Photon-Counting CT Simulator at Hong Kong Sanatorium & Hospital, with plans to install Asia's second at HKSH Eastern Medical Centre." By merging HKSH's clinical insights and expertise of Siemens Healthineers, the two parties will harness innovations and artificial intelligence to make a meaningful impact on healthcare, ultimately improving patient outcomes.

The innovative PCCT-Sim incorporates cadmium telluride crystal detector technology that directly converts X-ray photons into electrical signals to deliver unprecedented image detail and spectral information, addressing tumour volume definition, which is one of the greatest challenges in oncology. The system can significantly increase contrast and spatial resolution with up to 70% reduction in radiation dose. PCCT-Sim transcends the mere function of a diagnostic tool; its simulation capabilities

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allow for highly accurate tumor radiation therapy planning. This breakthrough aligns seamlessly with HKSH's commitment to personalised major diseases' care, especially through its Proton Therapy Centre.

Proton therapy, a cutting-edge radiotherapy modality, requires unparalleled precision to maximise therapeutic effectiveness while minimising the risk of radio-induced side effects. Compared to using conventional PCCT system, the simulator function of PCCT-Sim can effectively reduce the range uncertainties of proton therapy from 3% to 2%. This is particularly crucial for targeting tumors that are minute in size or in proximity to critical organs, such as brain, breast, head and neck cancer or prostate cancer. The groundbreaking PCCT-Sim technology can provide the clarity and precision essential for optimal treatment planning, safeguarding healthy tissue and improving patient outcomes.

Mr. Jerry WANG said, "We are honored to embark on this in-depth collaboration with HKSH. We have always believed that the deep integration of innovative technologies and clinical practice is the core driving force behind the advancement of healthcare. This partnership focuses on the development of next-generation imaging solutions, innovative applications of PCCT in proton therapy, integration of imaging technologies into clinical workflows, and exploration of application scenarios for new diagnostic technologies—each direction directly targets the core goal of enhancing diagnostic and treatment precision and patient benefits. By closely combining cutting-edge technologies such as Photon-Counting CT with clinical needs, we look forward to working with HKSH not only to bring higher-quality medical services to patients in Hong Kong but also to set a benchmark for the innovative application of medical technologies globally, jointly moving towards a more precise and efficient medical future."

Striving to enhance medical innovation through collaboration, HKSH has forged strong partnerships with leading imaging companies across Europe, the US and China, while Siemens is a shining example. HKSH's partnership with Siemens dates back to the 1960s with the installation of the revolutionary Siemens Serial Changer, which was perfect for cerebral angiography. Over the years, HKSH continued to enhance the collaboration, incorporating many of Siemens' cutting-edge machines, including Asia's first Dual Source CT (2006), world's first MAGNETOM Aera 1.5T (2010), Artis-Zego (2016), MAGNETOM Sola (2022), and recently, the innovative PCCT-Sim. The MOU signifies not only the continuation but the deepening of a trusted partnership between HKSH and Siemens, built on years of collaboration across Radiology, Radiotherapy, Nuclear Medicine, and Surgery.

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About HKSH Medical Group

Officially launched in September 2017, HKSH Medical Group, through its operating members, adopts a multi-faceted, coordinated approach to promote public health and advanced medicine through relentless efforts in clinical excellence, medical training and research as well as public health education. Members of the Group, including Hong Kong Sanatorium & Hospital, HKSH Healthcare, HKSH Eastern Medical Centre and HKSH Cancer Centre, are dedicated to offering top-quality holistic care to patients, upholding the motto 'Quality in Service, Excellence in Care.'

Established in 1922, Hong Kong Sanatorium & Hospital is one of the key members of HKSH Medical Group and a leading private hospital in Hong Kong. Living up to its motto of 'Quality in Service, Excellence in Care', the Hospital is committed to serving the public as well as promoting medical education and research.

For more information about HKSH Medical Group, please visit <http://www.hksh.com>.

About Siemens Healthineers

Siemens Healthineers pioneers breakthroughs in healthcare. For everyone. Everywhere. Sustainably. The company is a global provider of healthcare equipment, solutions and services, with activities in more than 180 countries and direct representation in more than 70. The group comprises Siemens Healthineers AG, listed as SHL in Frankfurt, Germany, and its subsidiaries. As a leading medical technology company, Siemens Healthineers is committed to improving access to healthcare for underserved communities worldwide and is striving to overcome the most threatening diseases. The company is principally active in the areas of imaging, diagnostics, cancer care and minimally invasive therapies, augmented by digital technology and artificial intelligence. In fiscal 2024, which ended on September 30, 2024, Siemens Healthineers had approximately 72,000 employees worldwide and generated revenue of around €22.4 billion.

Further information is available at www.siemens-healthineers.com.

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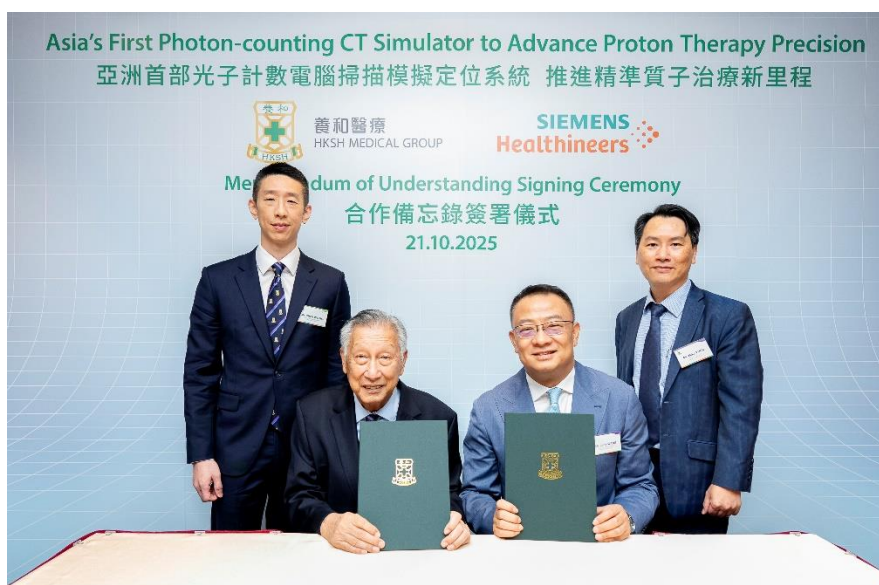


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Photo Captions



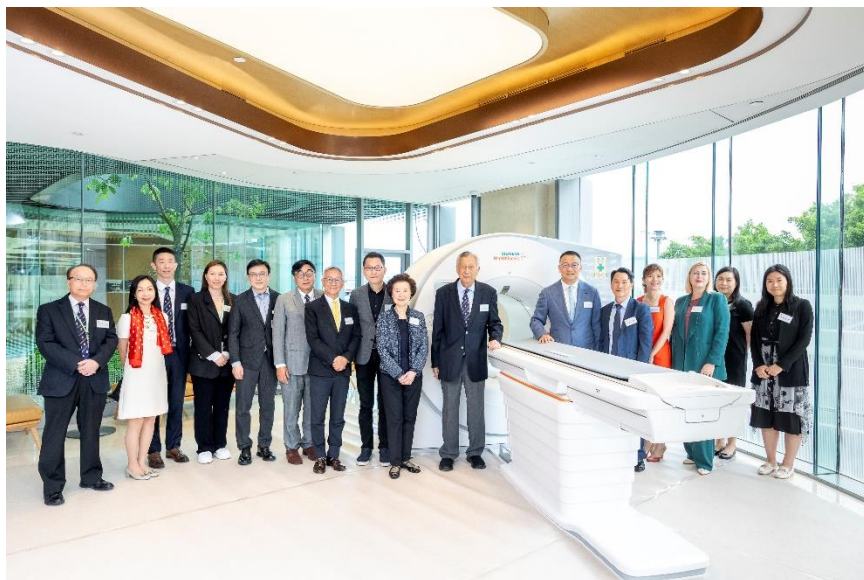
1. The partnership agreement was signed by Mr. Wyman LI, Chief Operating Officer of HKSH Medical Group and Director of Hong Kong Sanatorium & Hospital (second from left), and Mr. Jerry WANG, President of Region China, Siemens Healthineers (second from right), with Mr. CHEN Wei Hsu, Head of Business Development of HKSH Medical Group (far left), and Mr. Mike YUEN, Vice President of Hong Kong, Siemens Healthineers (far right) as witnesses.



2. Distinguished guests at the HKSH Medical Group and Siemens Healthineers Memorandum of Understanding Signing Ceremony.



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3. Representatives from HKSH Medical Group and Siemens Healthineers in front of the Photon-counting Computed Tomography Simulators (PCCT-Sim).

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