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Siemens International Cardiovascular Reference Center

Heart Center at the Cheng Hsin General Hospital Taiwan

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Answers for life.

Two strong

Heart Center at Cheng Hsin General Hospital

Cheng Hsin General Hospital (CHGH) was established by Madame Chiang Kai-Shek in Taipei in 1967. Since Chairwoman Madame Cecilia Yen Koo came onboard in 2003, the hospital has taken the aim to provide the best medical care to the public with "compassionate services from the heart". The hospital has an outstanding reputation in Taiwan and across Asia, especially for its advances in the field of cardiovascular medicine, and is recognized as one of the leading international centers for cardiology and cardiac surgery.

With outstanding expertise in cardiac surgery and cardiology, CHGH has always been at the forefront of clinical and technological innovation. Several milestones prove the innovative power of CHGH and in particular

its Heart Center. These include the first total artificial heart implantations in Asia in 1996, the development of the vascular ring connector to improve aortic surgery, and the introduction of magnetic navigation-assisted interventional procedures in 2010.

Equipped with 140 beds, the Heart Center is dedicated to the ongoing development of innovative medical therapies and technologies. It has achieved outstanding results in various therapeutic areas, including the surgical treatment of aortic dissection as well as interventional or surgical therapy of congenital heart diseases. The Heart Center at CHGH is also specialized in the care for patients with severe heart failure who depend on advanced treatments like ventricular assist device implantation or heart transplantation.



“ Together with Siemens, we will continue to develop the Cheng Hsin General Hospital – from a supra-regional center with highest level cardiovascular care to an education and training center for cardiologists and cardiac surgeons from Mainland China, Southeast Asia, and any other countries in the world. ”

Professor Jeng Wei, MD, MSD
Director Heart Center
at Cheng Hsin General Hospital

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one

partners

Siemens Healthcare

The Siemens Healthcare Sector is one of the world's largest suppliers to the healthcare industry and an innovation leader in medical imaging, laboratory diagnostics, and medical information technology. Siemens Healthcare offers its customers products and solutions for the entire range of patient care from a single source – from prevention, early detection, and diagnosis to treatment and aftercare. By optimizing clinical workflows for the most common diseases, Siemens also makes healthcare fast, cost-effective, and excellent.

As a solution provider, Siemens Healthcare continuously interacts with expert cardiologists and cardiac surgeons

worldwide, thereby gaining a deep understanding of the clinical and economic requirements of cardiovascular care. Siemens Healthcare drives the development and optimization of disease-specific clinical processes. It is our goal to develop workflows and solutions that use the most advanced technologies in order to provide the best possible care for each individual patient along the entire continuum of diagnostics and treatment.

The Siemens Healthcare Clinical Competence Center Cardiology is dedicated to advancing these concepts and developments in selected clinical partnerships – together with our customers.



“Through this partnership, we will address the challenges in diagnosis and treatment of cardiovascular disease. Our mutual goal is to further develop innovative approaches in the interdisciplinary collaboration of cardiologists and cardiac surgeons to achieve the best outcome for each patient.”

Tom Miller,
CEO Customer Solutions Division,
Siemens Healthcare Sector

shared vision

The background of the page is a composite image. The main part shows two surgeons in blue scrubs, masks, and hairnets, focused on a surgical procedure. They are wearing magnifying loupes. Above them are several large, hexagonal surgical lights with many small, colorful bulbs. To the right, a large medical monitor is visible. In the bottom right corner, there is a smaller inset photo of a woman with short dark hair, wearing a white lab coat, smiling at the camera.

Siemens International Cardiovascular Reference Center

Based on many years of successful collaboration between the CHGH Heart Center and Siemens Healthcare in the areas of cardiovascular imaging and advanced treatment concepts in cardiac surgery and cardiology, the two partners will now join forces in a strategic partnership by establishing CHGH as Siemens International Cardiovascular Reference Center.

The scope of the collaboration is to enable knowledge-sharing in clinical trainings and fellowships as well as the exchange of experience during clinical workflow visits. The two partners will also evaluate and develop new concepts in cardiovascular medicine, including clinical process optimization and multimodality image integration for improved diagnosis and therapy.

The Reference Center is open to cardiologists, cardiac surgeons, cardiovascular nurses, and other medical professionals interested in observing state-of-the-art techniques in cardiology and cardiac surgery, experiencing the use of advanced medical technology in diagnosis and therapy of cardiovascular diseases, and gaining insight into the interdisciplinary clinical workflows at the center.

Exchanging experience

by demonstrating state-of-the-art workflows
and advanced medical technology

The visit program at the CHGH Heart Center is tailored to the individual requirements of the guests. It is led by experienced clinical specialists who present a variety of topic areas, including:

Noninvasive cardiovascular imaging

The CHGH Heart Center team has extensive experience working with the latest imaging and interventional technology as well as current cardiovascular laboratory diagnostics. This includes advanced three-dimensional cardiovascular ultrasound, low-dose dual-source cardiovascular CT, and the latest generation of 3T MRI for cardiovascular imaging. Experience the comprehensive diagnostic evaluation of cardiac and vascular diseases as well as the planning and image guidance of cardiovascular interventional and surgical procedures.

Interventions in the Hybrid OR

The state-of-the-art Hybrid OR with integrated high-end imaging enables the team at the CHGH Heart Center to perform challenging cardiovascular interventions and surgical procedures. Applying minimally-invasive approaches supported by intraoperative 3D imaging the team is able to offer sophisticated cardiovascular therapies even to high-risk patients. Learn about the latest procedures for the treatment of thoracic aortic

aneurysms like TEVAR, transfemoral and transapical aortic valve implantation (TAVI), and interventions for congenital heart diseases.

Integration of laboratory diagnostics into multimodality clinical workflows

The complex nature of cardiovascular disease highlights the importance of cardiac biomarkers in the management of patients with heart diseases. Learn how sound decisions, safe procedures, and comprehensive follow-up are supported by cardiac in-vitro diagnostics.

Interdisciplinary collaboration

Experience firsthand the pioneering collaboration model between cardiology and cardiac surgery at the CHGH Heart Center and learn how Dr. Wei-Hsian Yin and his interdisciplinary heart team, including physicians as well as nurses, provide personalized patient care.



Medical technology at the Reference Center

Hybrid OR with Artis® zeego multi-axis system

- Perioperative high-end imaging for minimally invasive and interventional cardiac procedures in the OR

Artis zee MN floor-mounted system

- Stereotaxis® Magnetic Navigation and CARTO® mapping systems for advanced user- and patient-friendly procedures in electrophysiology and interventional cardiology

Artis zee biplane system

- Interventional suite for cardiology and electrophysiology with advanced applications like syngo® DynaCT Cardiac and syngo Aortic Valve Guide

ACUSON SC2000™

- Real-time 3D echocardiography

MAGNETOM® Skyra

- 3T MRI for efficient cardiovascular imaging

SOMATOM® Definition Flash

- Dual-source low-dose CT for accurate cardiovascular assessment

VersaCell® Solution connecting Dimension® EXL™ 200 and Dimension® RxL Max® Suite Integrated Chemistry Systems

- Integrated clinical chemistry and immunoassay systems for simultaneous processing of an extensive menu of laboratory tests

Sharing knowledge

and broadening in-depth expertise through multimodality clinical trainings and fellowships

The Siemens International Cardiovascular Reference Center in Taipei is open to medical professionals from all over the world interested in state-of-the-art cardiovascular care. You will experience the contribution of the most advanced medical equipment from Siemens and learn state-of-the-art techniques in cardiovascular imaging, interventions, cardiovascular surgery, and cardiac lab testing.

Broad expertise in cardiovascular diagnostics and therapy

Cardiovascular medicine at Cheng Hsin General Hospital has an outstanding reputation in Taiwan and across Asia. The hospital's philosophy is to invest both in clinical personnel with the highest medical expertise and in the latest state-of-the-art medical technology from Siemens so that it can maintain its long-term leading position.

Among other achievements, the Heart Center at CHGH was the first to open a cardiovascular hybrid OR in Taiwan, making it one of the few hospitals in the region to offer minimally invasive surgical and interventional therapies for valvular heart disease.

The cardiovascular surgery team is especially experienced in coronary artery bypass grafting, surgical therapy of aortic dissection, and heart transplants. Every year about 650 cardiac surgeries are performed. Between 1988 and

2010, about 400 heart transplants were performed, with three patients surviving more than 20 years. The interventional cardiology team performs about 6,000 cardiac catheterizations annually, 2,000 of which are accompanied by coronary artery angioplasty and stent placement. Interventional valve repair and treatment of aortic aneurysms are additional focus areas for the cardiology team at CHGH.

Advanced interventional and imaging techniques

To enhance knowledge-sharing in the field of cardiovascular imaging and image-guided therapies, a variety of multimodality imaging and workflow trainings will be offered by the clinical experts at the Heart Center at CHGH, using the most advanced imaging systems from Siemens.

The trainings will include:

- Cardiovascular CT and cardiovascular MR imaging
- Peri-interventional imaging in the hybrid OR
- Comprehensive multimodality assessment of acute and chronic myocardial ischemia
- Advanced interventions and ablation procedures in the cath lab and EP lab
- Cardiac surgery procedures and hybrid approaches

The trainings can be adapted on an individual basis as required.



ACUSON SC2000



Professor Jeng Wei, MD, MSD

Driving the development of new solutions

through multimodality assessment and clinical process optimization

CHGH was among the first cardiovascular centers in Asia to implement the concept of hybrid therapies, combining surgical procedures like bypass grafting or valve repair/replacement with interventional procedures in the same session. One focus of the Siemens International Cardiovascular Reference Center will be the continuous improvement of image-guided cardiovascular therapies including specific workflow aspects.

The Heart Center at CHGH will also be an advisor to/for Siemens in the field of multimodality image integration and cross-modality evaluation, and so will provide valuable expertise for the ongoing development of cardiovascular imaging and IT solutions from Siemens.

In addition, within the framework of the partnership, the cardiology experts at CHGH and Siemens are joining their efforts in clinical workflow improvement initiatives. Through a joint evaluation of clinical structures and processes both parties intend to identify additional improvement opportunities in heart failure disease management and care for patients with acute coronary syndrome.

“The Heart Center at CHGH has always been an innovative leader in cardiovascular medicine – the development of the vascular ring connector for the surgical treatment of aortic dissection and the implantation of the first completely artificial hearts in end-stage heart failure patients in Asia are two examples of the hospital’s innovative power.”

Associate Professor Wei-Hsian Yin, MD, PhD
Chief of Cardiology Department
at Cheng Hsin General Hospital



Associate Professor Wei-Hsian Yin, MD, PhD



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