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Center
Interventional
Radiology and
Oncology

Reference Center Interventional Radiology and Oncology

Clinic of Diagnostic and Interventional Radiology (CDIR)
at Katharinenhospital Stuttgart

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Answers for life.

Two strong

Clinic of Diagnostic and Interventional Radiology (CDIR)

The Klinikum Stuttgart consists of four subsidiaries within the city area of Stuttgart. It covers nearly the complete spectrum of medical disciplines and offers high-performance medicine at the university level. The Clinic of Diagnostic and Interventional Radiology (CDIR) at Katharinenhospital is the central facility for all diagnostic, minimally invasive, and interventional therapy procedures. With more than 2,000 interventional cases per year, it is perfectly integrated into the multidisciplinary clinical workflow of the hospital.

The CDIR was among the pioneers to establish an integrated radiology ward as an innovative approach for the optimal care of patients undergoing particularly complex interventional procedures.

The clinic is equipped with advanced imaging devices for CT and MRI and five angiography suites. To facilitate multidisciplinary care, there is a special hybrid concept available for selected interventional procedures. This interdisciplinary approach enables the highly specialized team to perform even complex interventional treatments, while at the same time constantly increasing patient throughput.

The clinic is certified for interventional and minimally invasive procedures by the German Society of Interventional Radiology and Minimally-Invasive Therapy (Deutsche Gesellschaft für Interventionelle Radiologie und minimal-invasive Therapie) and is also a member of several certified interdisciplinary centers within the Katharinenhospital.

“The combination of modern radiological diagnostics and minimally invasive procedures opens new fields for interventional radiology. This is key for curing even more patients.”

Professor Dr. Götz Martin Richter,
Medical Director of CDIR



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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 a trendsetter in medical imaging, laboratory diagnostics, and medical information technology. Siemens offers its customers products and solutions for the entire range of patient care from a single source – from prevention and early detection to diagnosis, and on to treatment and aftercare. By optimizing clinical workflows for the most common diseases, Siemens also makes healthcare fast, excellent, and cost-effective.

As a solution provider, Siemens Healthcare continually interacts with expert radiologists and oncologists worldwide, thereby gaining a deep understanding of the clinical and economic requirements of oncology care. In the field of interventional radiology and oncology, Siemens Healthcare drives the development and optimization of clinical processes for specific diseases. It is our aim to develop workflows and solutions using the most advanced technologies, which will provide the best possible care for each individual patient along the entire continuum of diagnosis and treatment.

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

“Our partnership with the CDIR addresses the trend in radiology not only to provide diagnostic information but to make interventional therapies a standard for optimal patient care with less invasive methods.”

Dr. Norbert Gaus,
CEO Customer Solutions Division,
Siemens Healthcare Sector

shared vision





Siemens Reference Center Interventional Radiology and Oncology

Based on a long history of successful cooperation, the CDIR and Siemens Healthcare are now expanding their joint activities in a strategic partnership through the establishment of the first Siemens Reference Center Interventional Radiology and Oncology. The purpose of the collaboration is to develop cutting-edge workflows with high process quality and efficiency in interventional radiology to further increase throughput and improve interdisciplinary collaboration.

The partners will facilitate knowledge-sharing during clinical trainings and fellowships. Visitors will gain insight into the details of interdisciplinary collaboration in the field and the integration of new medical technology into clinical routine as well as best practices in efficient patient management. New clinical workflows for interventional procedures will be developed by combining excellent clinical know-how with cutting-edge medical technology.

Exchanging experience

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

The Siemens Reference Center Interventional Radiology and Oncology is open to medical professionals from all over the world interested in advanced workflow concepts for minimally invasive interventional procedures. The customer visit program at the center is tailored to individual requirements and led by experienced clinical specialists. They will address your questions about interventional radiology, such as:

TACE (transarterial chemoembolization)

This minimally invasive procedure is predominantly used for the locoregional therapy of hepatocellular carcinoma (HCC) or liver metastases. With TACE the vascularization of the tumor is visualized by contrast-enhanced imaging. Treatment is then performed by injecting a suspension of small particles and a chemotherapeutic drug.

TIPSS (transjugular intrahepatic portosystemic stent shunt)

In 1988, Professor Götz Martin Richter, MD, was the first to successfully place a TIPSS in order to treat life-threatening complications from advanced liver cirrhosis. As a key element in this procedure, a stent is inserted using minimally invasive methods to artificially connect the portal vein with a systemic vein.

Embolization of uterus myoma

Uterine leiomyoma is a benign smooth muscle neoplasm, which can often be observed in women older than 30 years

and can be the reason for a variety of complications. One treatment option with relatively low risk is embolization therapy. Professor Götz Martin Richter, MD, and his team have extensive experience with these minimally invasive procedures.

Vascular interventions

For diseases like aortic aneurysms, artery occlusive disease (AOD), or renal artery stenosis, a broad variety of vascular interventions are offered in close cooperation with the department of vascular surgery. The treatment of severe hypertension can be performed with renal denervation.

Optimal aftercare in the integrated ward

The CDIR was one of the first radiology clinics with an integrated ward. This way, all patients who have undergone interventional procedures can be monitored by an experienced team within the department. This is essential, especially after complex interventions.

Advanced interventional imaging

The flexibility of the multiaxial system Artis zeego at the CDIR allows an uninterrupted workflow during the treatment, as the impact of the robotically positioned C-arm on the procedure and the hygienic needs of the room are minimized. The fast transition from interventional imaging to surgical treatment and back allows speeding up the procedure and providing maximum safety for the patient in critical situations.



Professor Dr. Götz Martin Richter



Artis zeego with Q technology

Sharing knowledge

and broadening in-depth expertise in interventional radiology through multidisciplinary clinical trainings and fellowships

To make full use of innovative imaging modalities and advanced workflow concepts, clinicians need ongoing training efforts and a continual exchange of knowledge. The trainings and fellowships offered at the Siemens Reference Center Interventional Radiology and Oncology will allow you to gain hands-on experience of the most sophisticated, robotically driven medical equipment and will show you how it can be used to facilitate clinical workflows. You can also discover how interventional radiology is optimally integrated into the multidisciplinary treatment of patients and how an integrated radiology ward concept is operated in a cost-efficient way.

Broad expertise in interventional radiology

Diagnostic and interventional procedures at CDIR have an outstanding reputation across Germany and Europe. Among other achievements, the CDIR was one of the first radiology clinics with an integrated inpatient ward to provide optimal care for patients undergoing complex

minimally invasive treatments. This ensures effective aftercare as well as appropriate monitoring and management of potential treatment-associated complications by experienced interventionalists from the radiology department. The hybrid OR-like environment at the CDIR includes state-of-the-art imaging technology that allows performing interventional procedures at an unmatched level of sterility and patient-positioning flexibility.

Insight into a variety of procedures and workflows

Several on-site trainings and fellowships are offered at the Siemens Reference Center Interventional Radiology and Oncology throughout the year to provide insight into a variety of interventional procedures and clinical workflows. The trainings make use of the most advanced imaging systems and are conducted by the clinical experts at the Katharinenhospital in Stuttgart. The courses can be adapted to accommodate individual needs as required.

“In order to achieve the best possible care for each individual patient, the Katharinenhospital uses fast, accurate, and workflow-driven technologies in interventional radiology and oncology.”

Dr. Ralf-Michael Schmitz,
Managing Director, Klinikum Stuttgart



Professor Dr. Götz Martin Richter

Supporting development

through multidisciplinary approach and clinical process optimization

CDIR was one of the first clinical sites with a dedicated room for interventional procedures and an integrated ward in the radiological department, combining two innovations for optimal multidisciplinary workflow in interventional radiology. Minimally invasive procedures have a long tradition at the CDIR and therefore play a decisive role in the development of innovative solutions. A good example is the continual improvement of the layout of the hybrid OR-like environment and the ongoing refinement of workflows for interventional therapies. This also includes more and more complex procedures that were only possible with invasive methods in the past. In addition, the use of the robotically driven system Artis zeego enables the clinic to combine excellent clinical outcome with high patient throughput.

The CDIR and Siemens work together to optimize existing procedures and find possibilities to increase the patient throughput while ensuring the best clinical outcome. Therefore, the partners work to overcome bottlenecks in the current setting in terms of hardware and workflow. The CDIR and Siemens will also join forces in investigating how innovative products, like the Artis zeego, can be further improved, especially to meet the demand for challenging interventions conducted with a minimally invasive approach.

Another focus of the collaboration is to develop KPIs (key performance indicators) for quality assessment, especially in the field of interventional radiology. Siemens regularly invites the CDIR to advisory board meetings and is proud to support the collaborative research.

“For the optimal treatment of vascular diseases by interventional and surgical therapies, a modern hybrid OR is essential.”

Prof. Dr. Thomas Hupp,
Medical Director, Clinic for Vascular Surgery, Klinikum Stuttgart

Medical technology at the Reference Center

Artis zeego with Q technology

Artis zeego is an ideal system for high-end interventional oncology and surgery procedures with unmatched positioning flexibility and the Siemens unique Large Volume syngo® DynaCT.

- Multi-axis system
- Flexible ISO center enabling a flexible working height
- Minimal construction impact to ceiling
- Minimal impact to laminar air flow and hygiene when imaging system is in use
- Exceptional positioning flexibility and head-to-toe coverage
- Several convenient handling and ergonomic design features
- Broad range of advanced applications

- Large Volume and off-centered syngo DynaCT
- System of choice for complex procedures such as SIRT
- Q technology with the latest X-ray tube technology in combination with a new detector

Imaging systems portfolio

- High-performing SOMATOM® Definition Flash Dual Source CT providing fast scan speeds at the lowest possible dose
- MAGNETOM® Aera 1.5T MRI: Top-of-the-line system delivering exceptional image quality and efficiency with maximized patient comfort
- Innovative angiography suites with Siemens systems offering high positioning flexibility and excellent patient access for biplane imaging



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