

Healthcare Sector Imaging & IT Division

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Integrated IT solution for cardiology from Siemens: Hospital in Peine interfaces cardiac cath lab with image archiving and reporting system

The Peine Clinic in Lower Saxony is the first hospital in Germany to interface its angiography systems with an image management and reporting system. All data generated prior to or during an intervention in the cardiac cath lab is now automatically transferred to the new IT system. The advantage: while the examination is still in progress, operating personnel can use important examination data to prepare a report for wards or referring physicians in just a matter of minutes. Previously, this took several hours, because the data was transferred from forms to the reporting system manually and the images were also stored manually. For this innovative IT solution in the catheter laboratory in Peine, Siemens interfaced its dynamic image archiving system syngo Dynamics with the angiographic system Axiom Artis FC and the hemodynamic measuring station Axiom Sensis XP.

In May 2008, the former community hospital in Peine opened a cardiac catheter laboratory. In order to begin with the most efficient environments possible, the Peine Clinic chose Siemens syngo Dynamics cardiology image management and reporting system. In the past, one of the most time-consuming tasks in the clinical routine for cardiac cath has been the preparation of reports. The large amount of data that had to be transferred manually from different forms, or from external data media, to the electronic reporting systems caused long delays in report availability. The Peine Clinic chose Siemens to install a solution that would significantly reduce the amount of time and effort for report preparation following cardiac catheterization. To achieve this objective, Siemens interfaced its multi-modality image archiving system syngo Dynamics with the angiographic system Axiom Artis FC and the hemodynamic measurement station Axiom Sensis XP. An interface to the clinic's ultrasound systems will be added in the future. Axiom Sensis XP, a state-of-the-art recording procedure for interventional cardiology and electrophysiology, even transmits measurement data automatically to syngo Dynamics via real-time data transfer.

Directly at their syngo Dynamics workstations, the reporting physicians are now provided with all data required to prepare the necessary reports as soon as catheterization is completed. This considerably accelerates the workflow in the cardiology department and allows for more precise reporting than in conventional catheter labs.

"While selecting a suitable provider, we were looking for integrated as well as cost-effective solutions for angiography systems and IT. The Siemens spectrum fully met these requirements with the real-time data exchange of Axiom Sensis XP and syngo Dynamics," explains Arturo Junge, director of administration at the hospital.

The chief physician of Medical Clinic I (Cardiology & Pneumology), Dr. Petra Wacker, also appreciates the advantages of having this reporting system for diagnostic image viewing and dynamic image processing at a single workstation. According to Dr. Wacker, evidence-based reporting also supports both the efficiency and effectiveness of clinical procedures. "We benefit especially from the fact that reports are generated almost automatically, a fact which greatly reduces the risks incurred through user errors. This allows us to ensure high-quality patient care," says Dr. Wacker.

"With this scalable solution, we are best equipped to face the technical challenges of the future. Networking will make the data exchange even faster and offer further advantages, for example in long-term archiving. This will certainly expand the existing cooperation of our hospitals," said Wilfried Schröter, Head of Medical Systems of the Peine Clinic.

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Klinikum Peine gGmbH was founded in March 2003 as a subsidiary of the Allgemeines Krankenhaus Celle foundation. On April 1, 2003, the Clinic took over management of the hospital of the Peine administrative district and on September 1 of the same year, the Peine hospital passed to the ownership of the Klinikum Peine gGmbH. The AKH Celle and the Peine Clinic have 1,045 beds in total. The Peine Center has eight specialist departments under physician management, two in-patient wards and cares for approximately 14,000 in-patients annually.

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