The 590-bed hospital is an important educational and research center, closely cooperating with leading pediatric hospitals from all over the world. Each year, the institute treats 28,000 children, provides 160,000 out-patient consultations, and performs 5,600 surgical procedures.

The hybrid OR offers both diagnosis and treatment in one room, in one procedure. Different steps that used to be done in a “staged” approach over several separate interventions can now be combined in one single procedure. Cardiac surgeons and cardiologists perform these extremely complex cases in a joint approach. This can lead to a reduced hospitalization and rehabilitation period, and a quicker return home for small patients.

The OR is equipped with a Siemens Artis zee® biplane angiography system, featuring a number of specialized applications to support physicians in their treatment. Particularly beneficial is the ability to acquire CT-like images in 3D through rotational angiography, known as syngo DynaCT, during a procedure in the OR, without having to transfer the patient to the CT scanner.

In the future, the hospital plans on further extending hybrid OR usage to include treatment such as electrophysiology procedures.
One Year into a New Vision

“The difference in image quality is immediately visible to the naked eye”

Prof. Martin Skalej, MD about Artis Q
Magdeburg, Germany

“With the new system, we feel far more confident in many interventions that we perform”

Prof. Frank Wacker, MD about Artis Q
Hannover, Germany

One year on from the launch of Siemens’ new vision for interventional imaging, the Artis Q and the Artis Q.zen have firmly established themselves across the globe with more than 150 orders and 50 installations; from Japan in the Far East, to the USA in the West. From down under in Australia, to India in South Asia, and throughout Europe in the northern hemisphere.

The greatest measure for the success of the Artis Q and the Artis Q.zen has been the empowerment of interventional physicians around the world, eliciting responses such as those shown on the left.

The Artis Q and Artis Q.zen go way beyond incremental improvements in image processing. The most powerful interventional X-ray tube ever produced by Siemens, combined with the actively cooled 16-bit detector technology, is redefining what the performance and image quality of an interventional system should be.

Increasing the visibility of small structures by up to 70%*, even in obese patients and at steep angles, and reducing radiation dose by up to 60%*, the Artis Q is exceeding all expectations. The unique crystalline silicone technology within the Artis Q.zen detector has redefined the discussion on dose from low to ultra-low dose and is already clinically proven in electrophysiology.

Read more about our customers’ first experiences with the Artis Q and the Artis Q.zen on the following pages.

* Compared to previous X-ray tube technology. Siemens data on file.