

### Siemens installs Asia's first SOMATOM Definition Edge CT scanner at PSG Hospitals, Coimbatore

- **SOMATOM Definition Edge with the new Stellar Detector technology is a first-of-its-kind hi-end CT scanner in Asia**
- **Stellar Detector technology ensures usage of lowest possible radiation dose to scan patients, thus making it one of the safest scanners, even for children and infants**
- **Structures up to 0.3 mm in size are visible**
- **Advanced software for heart, liver and brain**

Siemens unveiled Asia's first SOMATOM Definition Edge CT Scanner with Stellar Detector technology at PSG Hospitals, Coimbatore. With this single source CT scanner, it is now possible for doctors to visualize structures up to 0.3 mm in size even in routine examinations – in fact cardiac stents smaller than 3 mm size can be viewed. The Stellar detector technology helps improve image sharpness without increasing the radiation dose as compared to other single source CT scanners. The technology thus makes Definition Edge one of the safest scanners for patients, including children and neonates.

SOMATOM Definition Edge, which was launched during Siemens Healthcare's global initiative Agenda 2013, comes with a rotation speed of 0.28 seconds that enables faster scanning. For example, a normal thorax-abdomen scan of an adult can be performed in around two seconds or a whole body scan of an adult can be done in around eight seconds. This means that patients nearly don't need to hold their breath during a scan, as needed in conventional CT scanners. Also with patients who cannot stay still for extended periods or with fast moving organs like heart, the shortest possible scanning time minimizes motion artifacts on the image thus generating high resolution images.

Sanjay David, Business Head-CT Scanners, Siemens Healthcare elaborates, "The innovative features introduced in the SOMATOM Definition Edge are first-of-its-kind to be witnessed in a single source CT scanner. For instance, in critical cases such as cardiovascular examinations or in emergency diagnostics, every additional visible micrometer can be significant. And this is being made possible with the excellent signal processing of Siemens' Stellar Detector that comes with Definition Edge. Even in obese patients, superior quality images can be generated, which is otherwise difficult to achieve."

Dr. Vimalkumar Govindan, Medical Director, PSG Hospitals comments, "We at PSG, always put patients first. Their safety and ethical high quality care are our guiding principles." Dr. Kamal K Sen, HOD-Radiology Department, PSG Hospitals informs, "With the growing incidences of fatal diseases like atherosclerosis, heart diseases, stroke and liver diseases in India, Definition Edge will help us to diagnose minutest defects accurately and at a much earlier stage. It will also help significantly in follow-ups. The hi-end technology of Stellar Detector and features like CARE and SAFIRE will help us provide world-class imaging service to the people of Coimbatore."

As dose reduction has been a high priority for Siemens, SOMATOM Definition Edge comes with features like CARE Dose4D, CARE kV, CARE Child and SAFIRE (Sinogram Affirmed Iterative Reconstruction). CARE Dose4D is a fully automatic radiation exposure control system, which adjusts the dose in real-time according to the area of the body being scanned and is thus capable of reducing overall dose levels. CARE kV helps modulating the kV as per the patient positioning. CARE Child ensures the low 70kV station is used for pediatric and neonatal applications. SAFIRE is the new raw data based iterative reconstruction of CT data, which is FDA approved for dose reduction of up to 60%.

More product photos are available at: <http://www.siemens.com/med-pictures/Somatom-Definition-Edge>

For more information on SOMATOM Definition Edge please visit:

[www.siemens.com/somatom-definition-edge](http://www.siemens.com/somatom-definition-edge)

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Launched in November 2011, **Agenda 2013** is the global initiative of the Siemens Healthcare Sector to further strengthen its innovative power and competitiveness. Specific measures, which will be implemented by the end of 2013, have been defined in four fields of action: innovation, competitiveness, regional footprint, and people development

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