

### Siemens introduces product portfolio for minimally invasive oncology procedures

**Precise navigation with Artis zeego and syngo applications on display at RSNA 2009**

At this year's Radiological Society of North America (RSNA), Siemens Healthcare introduced its comprehensive portfolio for imaging in interventional oncology. The Artis zeego™ Multi-axis angiography system and syngo® applications supply high image quality for the detection of details in soft tissue, assisting the precise navigation of catheters or needles and supporting the entire workflow process from tumour evaluation and procedure planning, to therapy and follow-up.

New and emerging minimally invasive procedures include using a catheter or a needle to insert chemotherapeutic agents directly into the blood vessels of a tumour. This localised treatment aided by angiography systems reduces procedure times and shortens a patient's stay in hospital. This is especially beneficial for older patients and people with additional health problems who are unable to have a major operation or aggressive chemotherapy.

Siemens Healthcare has adapted its imaging systems and applications to assist in interventional oncology procedures including transarterial chemoembolisation (TACE), selective internal radiotherapy (SIRT) and radiofrequency ablation (RFA).

**syngo DynaCT** enables the display of tumours and the complex structures of the blood vessels supplying them during treatment. Short reconstruction times enables abdominal images to be displayed within 22 seconds.

**Large Volume syngo DynaCT** offers the interventional radiologist virtually unlimited freedom of movement in combination with the robotic-based angiography system 'Artis zeego'. The system's flat detector rotates twice 220 degrees around the patient with such precision that cross-sectional images with a coverage of 47 centimetres are acquired. These images enable more comprehensive anatomic coverage than soft tissue images acquired with any other angiography system. For example, the liver and lungs are covered fully.

**syngo Embolisation Guidance** enables advanced planning of the embolisation of tumour feeding blood vessels. Using this application, the vessel supplying the tumour can be marked and the centreline of the vessel is automatically calculated. This is then superimposed on the live fluoroscopic image, therefore simplifying catheter guidance during tumour embolisation considerably.

With **syngo InSpace 3D/3D Fusion**, previously acquired CT, MR or PET•CT images can be fused with high-contrast 3D angiography images or *syngo* DynaCT datasets to present all relevant diagnostic and interventional data at a glance. The fused dataset can also be overlaid on live fluoroscopic images to provide additional information on the tumour during the procedure.

**syngo iGuide** enables the needle to be positioned precisely, especially important for ablative procedures. The **iGuide Cappa** navigation system supports the placement of radiofrequency and biopsy needles via electromagnetic navigation without requiring any radiation.

"Siemens' innovations in interventional oncology have been designed to meet the demands placed on hospitals by increasing cancer rates," said Susie Guthrie, AX Product Manager at Siemens Healthcare. "Our innovative applications help to streamline workflow and ensure that patients receive quick and minimally invasive treatment. This improves recovery and quality of life outcomes for patients plus delivers return on investment to Trusts as lengthy hospital stays and patient rehabilitation care is reduced."

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### **About 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, medical information technology and hearing aids. 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 optimising clinical workflows for the most common diseases, Siemens also makes healthcare faster, better and more cost-effective. Siemens Healthcare employs some 48,000 employees worldwide and operates around the world. In fiscal year

2009 (to September 30), the Sector posted revenue of 11.9 billion euros and profit of around 1.5 billion euros.  
For further information please visit: [www.siemens.com/healthcare](http://www.siemens.com/healthcare).

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**Picture caption:** At this year's RSNA, Siemens introduced its range of applications for interventional oncology procedures, including its *syngo*<sup>®</sup> Embolisation Guidance application, which simplifies catheter guidance.

