

Innovative solutions for radiation therapy

Siemens Healthcare showcases its latest radiation therapy solutions at the European Society for Therapeutic Radiology and Oncology (ESTRO) 2011

Siemens Healthcare has presented its diverse range of radiation therapy solutions at the European Society for Therapeutic Radiology and Oncology (ESTRO) 2011. The innovations are aimed at assisting clinicians in treating tumours with greater precision. Intelligent software and modern imaging ensures that radiation planning and therapy take place with greater efficiency. Highlights included Multiple-X, a feature with which radiation times can be shortened and In-Line kView Imaging in which an optimised beam is used to image a tumour to enable a repeated check of its location before radiation treatment.

Siemens has developed the new **Multiple-X** feature for the Artiste linear accelerator to speed up stereotactic radiation therapy. At present, patients undergoing stereotactic radiation spend up to one hour on the treatment table and the usual radiation dose rate in monitor units (MU) is between 50 and 500 per minute. With Multiple-X, the Artiste enables a dose rate of up to 2,000 MU per minute, which boosts the efficiency of radiation and can shorten treatment time by up to 80 per cent. Multiple-X provides four different types of beam without flattening filters; 7 megavolts (MV), 11 MV, 15 MV and 17 MV. These can be combined with one flat energy to enable further applications such as Intensity-Modulated Radiation Therapy and 3D-Conformal Radiotherapy.

For Image Guided Radiation Therapy, Siemens offers **In-Line kView**, an innovative imaging method in which an optimised imaging treatment beam is used on the accelerator to record 2D and 3D images of a tumour and surrounding tissue. The image quality is comparable to that of X-ray images but requires a smaller dose than the MV imaging process commonly used in radiation therapy. Assisted by intelligent software applications, clinicians can compare the image recorded by In-Line kView with the

CT image from the planning phase. This means the positioning of the patient can be adjusted before treatment if the tumour has shifted or the patient is in the wrong position. In-Line kView also allows selection of imaging quality depending on dose rate, thus supporting dose management.

“Innovative imaging and software solutions such as Multiple-X and In-Line kView enable clinicians to treat tumours with greater precision and ensure radiation planning and therapy take place with increased efficiency,” states Lawrence Foulsham, Molecular Imaging Product Manager at Siemens Healthcare. “Patient care is also enhanced as Multiple-X can shorten treatment time by up to 80 per cent while In-Line kView enables a repeated check of a tumour’s location before radiation treatment.”

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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 optimizing 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 2010 (to September 30), the Sector posted revenue of 12.4 billion euros and profit of around 750 million euros. For further information please visit: www.siemens.com/healthcare.

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Picture caption: At the European Society for Therapeutic Radiology and Oncology (ESTRO) 2011, Siemens Healthcare showcased its diverse range of radiation therapy solutions including Multiple-X and In-Line kView.

