

New cancer therapy solution from Siemens

Fast and precise real adaptive radiation therapy with IM-RealART

Siemens Healthcare has introduced the IM-RealART™ Solution, which combines the Artiste™ Solution linear accelerator, the 550TxT™ treatment table, the CTVision™ System for diagnostic CT and the RealART™ planning system from Prowess Inc. for adaptive radiotherapy.

Using IM-RealART, treatment plans can be quickly modified to take into account changes in the shape and position of tumours while the patient is on the treatment table. This means that both the radiation fields and dose are recalculated before the next fraction is irradiated. Using the 160MLC™ multileaf collimator, the radiation field is accurately confined to the tumour, saving the surrounding healthy tissue.

By incorporating CTVision, IM-RealART provides diagnostic image quality directly in the treatment room using a CT scanner running on rails. While the patient lies on the treatment table, the latest scans can be compared to the original treatment planning scans. If the shape or the position of the tumour has changed significantly, the treatment plan can be adapted immediately. The recalculation to correct the shape of the radiation field and dose can be performed in approximately seven minutes.

IM-RealART can also be combined with the IM-Confident™ Plan consisting of Artiste with the 160MLC and an intelligent treatment planning software. These components help to reduce the treatment time required for Intensity-Modulated Radiation Therapy (IMRT) to five minutes or less.

“IM-RealART and IM-Confident are designed to offer high precision therapy to meet individual patient needs plus make treatment simpler and more efficient,” said Lawrence Foulsham, Product Manager for Molecular Imaging and Oncology at Siemens Healthcare. “Using innovative technologies, tumours

are treated with pinpoint accuracy while the latest software and imaging ensure that planning, replanning and therapy take place as swiftly as possible.”

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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.

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Picture caption: IM-RealART™ combines the Artiste™ Solution linear accelerator with innovative technologies for high precision therapy.

