C-RAD SG-SRT

NEW DEDICATED FUNCTIONAL MODEL FOR STEREOTACTIC RADIATION THERAPY (SRT)

Catalyst HD now has a new dedicated model for SRT that provides higher accuracy, workflow automation to improve patient safety, and improved hardware robustness.

SG-SRT SOLUTION POWERED BY C-RAD

- Improve clinical confidence
- Improve patient safety
- Improve clinical efficiency

SRT developing rapidly

Stereotactic RT has amply demonstrated evidence for its clinical advantages. SRT is developing rapidly, and is the leading RT technology of the future for both intracranial and extracranial clinical applications.

SRT has the potential to reduce fractions and improve survivorship. The capability of linear accelerators to deliver higher doses for SRT is increasing, and this technique is being applied more widely in clinical settings.

The challenges

The challenges for SRT are uncertainty due to the complexity of the delivery, patient safety and resources. During treatment, patient breathing, as well as movement of the tumor or normal tissue can impact the clinical result by missing targets or causing extra dose distribution to normal tissue.

To deliver even higher doses, new technology must be provided that is compatible with stereotactic delivery, namely high-precision patient positioning and intrafraction motion management. Catalyst HD offers a complete SG-SRT solution for online patient tracking before and during treatment delivery, thus ensuring the best possible treatment outcome without non-prescribed doses.

The C-RAD SG-SRT solution address these challenges by introducing an intuitive workflow with quality check points, providing improved precision for non-coplanar delivery and a high-stability camera.

We have found that the new C-RAD system with the stereotactic module can add value to a comprehensive frameless image-guided SRS workflow. Intra-fraction motion for SRS is challenging both to monitor and to quantify. However, that is now achievable with the C-RAD CatalystHD system. Our experience with the CatalystHD in routine image guided radiotherapy is that it significantly reduces our overall patient setup time and allows us to accurately and reproducibly setup patients with challenging positional setup.

Niko Papanikolaou, *Ph.D. | Professor and chief | Division of Medical Physics Director, UT Health San Antonio, MD Anderson Cancer Center | University of Texas Health Science Center San Antonio*

Surface scanning with Catalyst has changed the way we look upon radiation therapy. With the system, there is a tool available that enhances patient safety for advanced treatments. From conventional treatments to intracranial SRS with motion management it improves the workflow and maintains the dose delivery accuracy during the entire treatment.

Sven ÅJ Bäck, *PhD| associate professor| medical physicist, Head of Radiotherapy Physics, Department of Radiation Physics, Skåne University Hospital*

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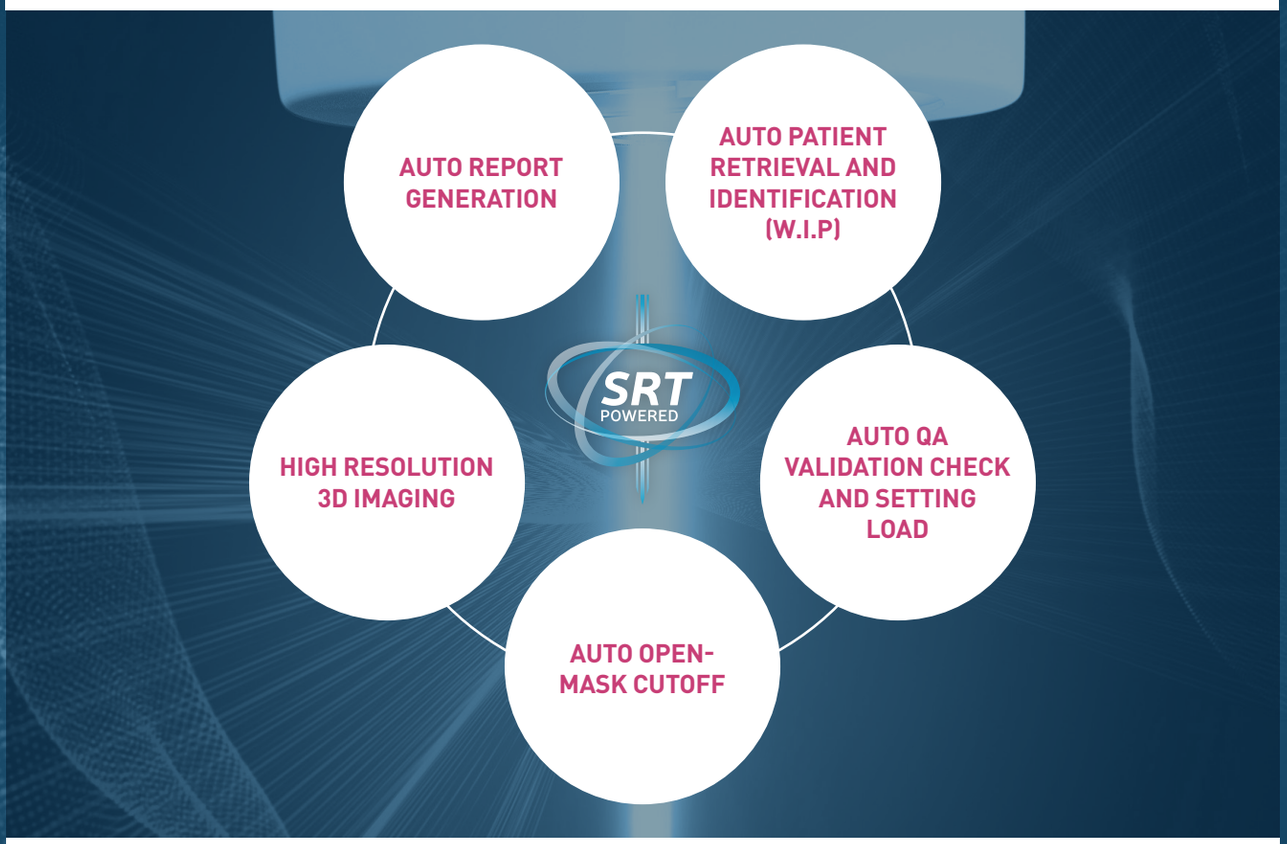
INTUITIVE SRT WORKFLOW – SIMPLICITY AND CONFIDENCE



The new workflow with its automated procedures has minimal impact on the clinical SRT workflow. The auto QA validation check and auto patient data retrieval minimize any human error to provide extra security to the patient. The Auto open-mask cutoff and high-resolution 3D imaging simplify the workflow with better surface image quality. The report generator records the status of setup and motion during treatment.

The dedicated SG-SRT workflow contributes to confidence in the clinic to have more patients benefit from stereotactic delivery, both SRS and SBRT.

Accuracy – better and across the whole treatment
Accuracy is improved independently on gantry angle and couch rotation with high-resolution imaging, which is extremely important for non-coplanar delivery. Now no matter how complex an angle is specified, the SRT delivery will always be under real-time surveillance by the C-RAD surface tracking system.

User experience – unique and smooth
A fast QA procedure and auto QA validation check make the QA process simple and easy. System stability has been improved to support the longer treatment times needed for stereotactic delivery. The Smart Diagnosis kit brings different experience as the stability and life cycle improved with system temperature control and power management. Remote service is also integrated into the solution to enable fast responses and proactive services.

Confidence, patient safety and efficiency. The SG-SRT solution powered by C-RAD will help to bring the benefits of stereotactic delivery to more clinics, helping to cure more cancer patients and improve their quality of life.

SG-SRT Solution
Powered by C-RAD

C-RAD