ADVANCING CANCER TREATMENT

RaySearch Laboratories

RaySearch is a committed pioneer of oncology software. Since 2000, we have worked in close cooperation with leading centers to improve life and outcomes for patients. We develop all our products from the ground up and continuously revise every aspect, from algorithms to user interface designs.

Medical science never stands still, and neither does RaySearch—our relentless drive to do things better leads us to ever-higher performance, accuracy, safety and usability. And this is just the beginning.

We believe software is the driving force for innovation in oncology today. Our systems use groundbreaking automation and machine learning to create new possibilities. RayCare®*, the next-generation oncology information system, will enable one workflow for all the oncology disciplines, ensuring fluid coordination of tasks and optimal use of resources. RayStation®* harmonizes treatment planning, providing one point of control for all planning needs—any equipment, any scale.

*Subject to regulatory clearance in some markets.

LEARN ABOUT OUR PRODUCTS »

RayStation

RayCare

Learn more at: WWW.RAYSEARCHLABS.COM

RayStation

TREATMENT PLANNING THE WAY IT SHOULD BE

RayStation has been designed with your needs and workflow clearly in mind. The intuitive interface makes it a joy to use, however complex the workflow. With ultrafast computation speed and groundbreaking features such as multi-criteria optimization and 4D adaptive radiation therapy, RayStation will revolutionize your planning process.

AUTOMATED PLANNING

- Templates and protocols
- Scripting
- Automatic breast planning
- Fallback planning
- Machine learning*
- Plan Explorer

THE PHYSICIAN TOOLBOX

- Manual and semi-automatic contouring
- Deep-learning organ segmentation
- Plan evaluation
- Robust evaluation
- Radiobiological evaluation
- Virtual simulation

SPEED AND ACCURACY

- GPU-powered computation
- Monte Carlo dose calculation
- Collapsed Cone dose calculation

*Subject to regulatory clearance in some markets.

PROTON PLANNING

- PBS, DS, US, LS, Wobbling
- Monte Carlo dose computation/optimization
- Robust optimization and evaluation
- PBS optimization with apertures/MLC
- Multi-criteria optimization, including robustness
- Fully integrated adaptive planning
- Simulated organ motion
- Interplay evaluation
- Automatic creation of backup photon plans

BORON NEUTRON CAPTURE THERAPY*

- Support for defining BNCT-specific RBE models
- BNCT treatment plans creation

CARBON-ION PLANNING*

- Carbon-ion PBS optimization
- Robustness tools
- Multi-field and single-field optimization
- Plan directly deliverable on synchrotrons
- Combination planning with other modalities

PHOTON AND ELECTRON PLANNING

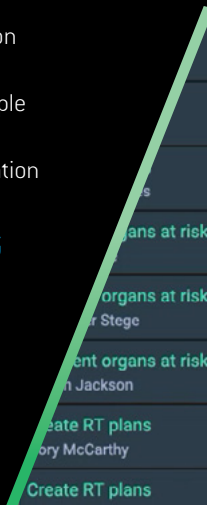
- 3D-CRT
- IMRT
- VMAT
- TomoTherapy
- Stereotactic planning
- Electrons
- MR-based planning

ADVANCED OPTIMIZATION TOOLS

- Multi-criteria optimization
- Robust optimization
- Co-optimization of multiple beam sets
- Radiobiological optimization

ADAPTIVE PLANNING

- Deformable registration
- Dose tracking
- Adaptive replanning



RayCare

RAYCARE IS HERE!
THE NEXT-GENERATION OIS

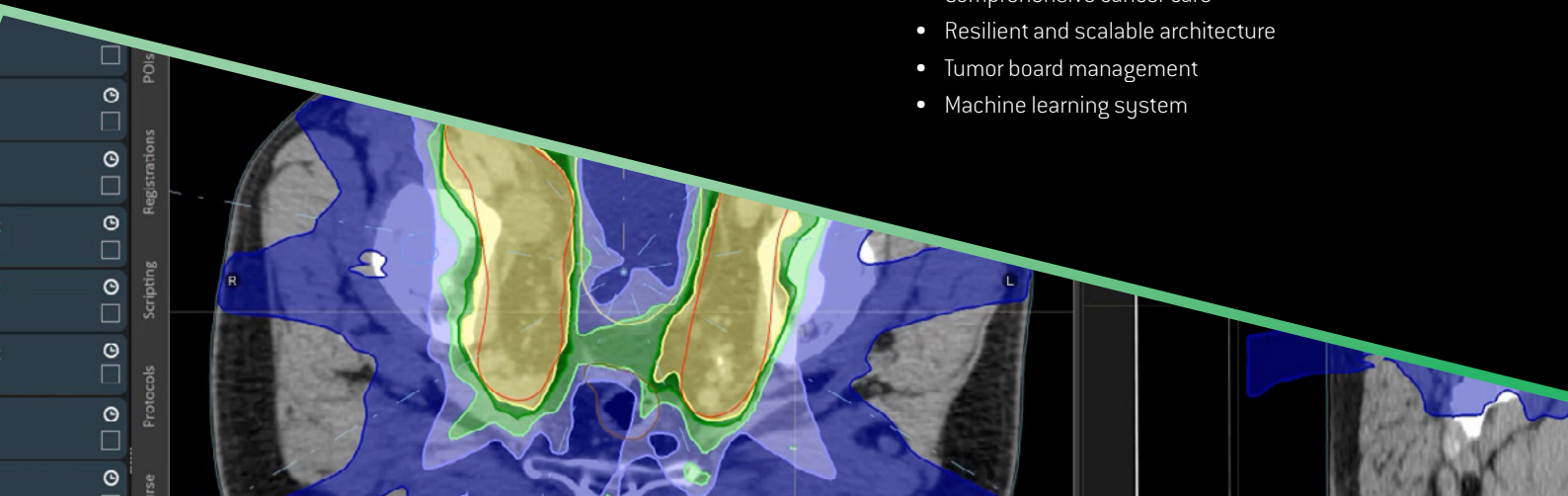
ONE ONCOLOGY WORKFLOW

RayCare enables a truly integrated approach across oncology disciplines. Many cancer patients receive a combination of treatment types, and RayCare is designed to reflect this. RayCare enhances the possibilities of modeling the patient's treatment path and supporting multi-disciplinary as well as multi-modality workflows. This will be achieved by efficiently coordinating activities across radiation therapy, chemotherapy and surgery. The system facilitates sharing of clinical information related to the patient and enables communication between specialties to ensure the best possible care.

RAYCARE ADVANTAGES

RayCare will respond to the demand from clinics for a more user-friendly and workflow-oriented information system that can support the future of cancer treatment.

- Seamless integration with RayStation
- Active oncology workflows
- Designed for adaptive therapy
- Schedule and resource optimization
- Comprehensive cancer care
- Resilient and scalable architecture
- Tumor board management
- Machine learning system



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RaySearch Products, 4-page flyer: 2019–05–23