

ADVANCING CANCER TREATMENT



RaySearch is a committed pioneer of software for oncology. Software has unlimited potential for advancing cancer treatment, and we believe it is now the driving force for innovation in oncology.

Medical science never stands still, and neither does RaySearch. Since 2000, we have worked in close cooperation with leading cancer centers to advance cancer treatment. We are not just a software vendor – we are an innovation partner.

RayStation®, our next-generation treatment planning system, supports the quality of decision-making, creates new treatment possibilities and gets maximum value from your existing equipment.

RayCare represents the future of OIS technology, developed from the ground up by RaySearch to support the complex logistical challenges of modern, large-scale radiation therapy centers.

RayCare will integrate the high-performance radiation therapy algorithms available in RayStation with advanced features for clinical resource optimization, workflow automation and adaptive radiation therapy. By making treatment planning faster, easier and more flexible, we enable better care for cancer patients worldwide.

And this is just the beginning.



A WORLD OF ENDLESS
POSSIBILITIES IN
TREATMENT PLANNING



ONE ONCOLOGY WORKFLOW
THE NEXT-GENERATION OIS



AUTOMATED PLANNING

- Plan Explorer
- Fallback planning
- Automatic breast planning
- Scripting

ADVANCED OPTIMIZATION TOOLS

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

PHOTON AND ELECTRON PLANNING

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

ADAPTIVE PLANNING

- Deformable registration
- Dose tracking
- Adaptive replanning

PLAN EVALUATION

- Dose statistics and clinical goal lists
- Plan evaluation tools
- Perturbed dose computation

PATIENT MODELING

- Manual and semi-automatic organ and target delineation tools
- Rigid image registration and fusion tools
- Model-based segmentation
- Atlas-based segmentation



VIRTUAL SIMULATION

- One-click plan creation with orthogonal beam pair
- Isocenter placement using DRR pair
- Export to patient marking systems

PROTON PLANNING

- PBS, DS, US, LS, Wobbling
- Monte Carlo dose computation
- 4D robust optimization
- PBS optimization with apertures
- Automatic creation of backup photon plans

CARBON-ION PLANNING

- Carbon-ion PBS optimization

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.



RAYCARE IS HERE! THE NEXT-GENERATION OIS

ONE ONCOLOGY WORKFLOW

Many cancer patients receive a combination of treatment types, and RayCare is designed to reflect this. Exceeding the possibilities of any other system in modeling the patient's reality and supporting a combined workflow, RayCare will efficiently coordinate activities in radiation therapy, chemotherapy and surgery. It facilitates sharing of clinical patient information and communication between specialties for the best possible care.

RAYCARE ADVANTAGES

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

- Platform-independent Architecture
- Comprehensive Cancer Treatment
- Digital Oncology Workflows
- Designed for Adaptive Therapy
- Schedule and Resource Optimization
- Tumor Board Management
- State-of-the-art Usability
- Enterprise-wide Integration
- Structured for Data Analysis
- Accessible on Mobile Devices
- Machine Learning System

** Subject to regulatory clearance in some markets.*

