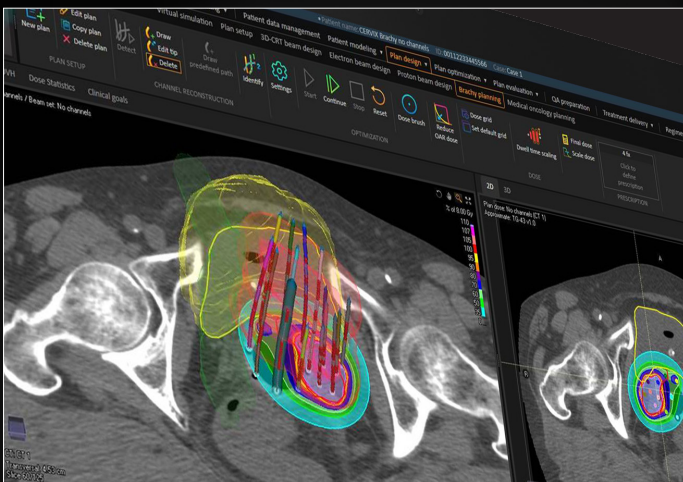# RayStation

10B

RAYSTATION 10B IS HERE.
SEE WHAT'S NEW!

RayStation® 10B* includes support for HDR brachytherapy planning as well as ultra-fast proton GPU Monte Carlo algorithm, which boasts typical final dose computation times of less than five seconds.

SUPPORT FOR PLANNING OF HDR BRACHYTHERAPY TREATMENTS:

- Efficiently reconstruct any applicator
- Optimize dwell times in seconds
- Fine tune using Dose brush or Reduce OAR tools
- Manually edit dwell times
- Arbitrary image view rotation
- Configure afterloader, source and applicator properties arbitrarily in RayPhysics

PROTON MONTE CARLO DOSE IN 5 SECONDS!

- Support for multi-GPU computation
- Typical final dose computation times of five seconds or less**
- All algorithms from the well-established RayStation CPU proton Monte Carlo intact

MACHINE LEARNING NEWS***

- Machine learning planning for protons
- Robust machine learning optimization for photons and protons
- Fast machine learning dose prediction with deep neural networks

*** Computed using 2.5 mm voxels to a statistical uncertainty better than 0.5% per field.*

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Laboratories

OTHER RAYSTATION 10B HIGHLIGHTS

GENERAL PLANNING NEWS

- Extended robust optimization framework taking intra- and inter-fractional motion into account, considering uncertainties during the delivery of single fractions and accumulating the delivered dose over the entire treatment course
- ROI algebra tools accessible throughout the system
- Possibility to add evaluation doses in treatment report
- Improved support for large patient datasets and many simultaneous users

PHOTON PLANNING NEWS

- Possibility to define behavior of guard leaves
- Support for rounded jaw positions
- Improved positioning of jaws and closed leaf pairs for VMAT

PARTICLE PLANNING NEWS

- Support for auto-modelling and commissioning of Mevion Hyperscan machines
- Improved MCO for protons
- Possibility to use different RBE cell types per ROI for light ions

FURTHER AND TIGHTER INTEGRATION WITH ONCOLOGY INFORMATION SYSTEM RAYCARE®*

- When using RayStation together with RayCare, the planning task list is now accessible in RayStation for improved workflow management

Subject to regulatory clearance in some markets.

*** Machine learning is subject to regulatory clearance in some markets. Furthermore, certain machine learning features are disabled in certain markets due to regulatory reasons.

RaySearch Laboratories