RayStation

10A

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

RayStation® 10A* adds the option to generate plans with machine learning in Plan Explorer. The new version also includes proton Monte Carlo dose computation on the GPU and auto-navigation based on prioritized clinical goals in the multi-criteria optimization module.

MACHINE LEARNING IN PLAN EXPLORER

The Plan Explorer automatically generates a large number of plans for combinations of treatment techniques and machines for a specific patient. It also provides efficient means to filter and browse among plan candidates to find the most desired one. The addition of machine learning optimization adds speed in plan generation and makes it possible for a clinic to tailor the automatic plan generation even further.

PROTON MONTE CARLO DOSE ENGINE ON GPU

- Proton PBS Monte Carlo dose engine for optimization and final dose migrated to GPU
- All algorithms from the well-established RayStation CPU proton Monte Carlo intact
- Significant time savings in proton PBS planning

Subject to regulatory clearance in some markets.

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OTHER RAYSTATION 10A HIGHLIGHTS

AUTO-NAVIGATED MCO

- After pareto plan generation the navigation state is automatically optimized to fulfill as many clinical goals as possible, in priority order (photons only)

MACHINE PARAMETER IMPROVEMENTS

- Improved jaw positioning during optimization for linacs with jaw positions per segment
- Possible to set minimum and maximum tip positions per leaf pair for MLCs
- Possible to set minimum and maximum MU allowed for beams using wedges
- Possible to set leaf tip width, tongue-and-groove width, offset, gain, curvature and orthogonal offset per mlc layer for dual layer mlcs

IMPROVED MULTI-METS SRS

- Automatic collimator angle selection for conformal arcs for minimized exposure of healthy tissue in-between targets

BEAM COMMISSIONING IMPROVEMENTS

- Support for arbitrary photon fields in RayPhysics
- Auto-modeling for electrons

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