CYBERKNIFE® PLANNING IN RAYSTATION* Using RayCare Oncology Information System

Today's clinical facilities have a mixture of radiation treatment delivery devices with distinct treatment planning systems that integrate differently with the facilities' Oncology Information System (OIS). This mixture can produce a complicated environment to learn, operate, and maintain for clinical staff. RaySearch Laboratories offers RayStation, a cutting-edge treatment planning solution and RayCare OIS, which allow treatment planning and data integration for treatment delivery devices from different vendors on a single platform. RayStation now provides treatment planning support for the Accuray CyberKnife® System. It can be combined with the Accuray data management system, iDMS®, to provide a single platform for treatment planning and data integration for CyberKnife treatments.







RayStation 11A supports treatment plans that take full advantage of the capabilities of the CyberKnife M6[™] and S7[™] Systems. This includes support for indication-specific motion tracking and delivery adaptation, Synchrony[®], which is utilized on the platform as a part of every treatment delivery. RayStation 11A also supports all beam collimator housing types including fixed, Iris[™] Variable Aperture and the InCise[™] Multileaf Collimators. Other key RayStation features include:

- Support for the CyberKnife platform to deliver non-coplanar, isocentric and/or non-isocentric treatment beams from potentially thousands of different angles
- Fast and accurate dose calculation that allows dose adjustment in real-time
- Fully deformable registration and offline adaptive planning
- Support for other platforms: SBRT, SRS, 3D-CRT, IMRT, VMAT and electrons
- Flexibility beyond having a standard user interface such the use of scripting tools and pre-defined protocols

CyberKnife[®]

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Through the iDMS® System, CyberKnife® customers are now able to integrate with RayStation and RayCare which provides seamless data management operations and overall workflow. With RayCare, compatibility with Accuray linacs, most OIS systems and third-party QA solutions is possible.

Advanced patient management tools are now available such as new report templates, user/system administration and image review and import. Specific OIS interoperability features include 3D review and approval in ARIA, export of patient shifts, plan review/approval and export. Finally, modernized hardware components ensure data security and patient file backup.

Accuray and RaySearch are committed to optimizing patient treatments that best utilize the strengths of the CyberKnife M6[™] and S7[™] Systems. Clinicians will benefit from having more patient treatment options available and flexible workflows — all through a standardized, vendor neutral treatment planning system and next-generation oncology information system.



Important Safety Information

Most side effects of radiotherapy, including radiotherapy delivered with Accuray systems, are mild and temporary, often involving fatigue, nausea, and skin irritation. Side effects can be severe, however, leading to pain, alterations in normal body functions (for example, urinary or salivary function), deterioration of quality of life, permanent injury and even death. Side effects can occur during or shortly after radiation treatment or in the months and years following radiation. The nature and severity of side effects depend on many factors, including the size and location of the treated tumor, the treatment technique (for example, the radiation dose), the patient's general medical condition, to name a few. For more details about the side effects of your radiation therapy, and to see if treatment with an Accuray product is right for you, ask your doctor.

CyberKnife® System: 510(k) cleared. Subject to regulatory clearance in some markets; CyberKnife Planning in Raystation: Pending 510(k) clearance.

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