PRESS RELEASE

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RAYSEARCH WILL PRESENT FURTHER ADVANCES IN MACHINE LEARNING AND SUPPORT FOR BRACHYTHERAPY AT ASTRO 2020

RaySearch Laboratories AB (publ) will demo its latest advances in oncology software at the American Society for Radiation Oncology (ASTRO) 2020 Annual Meeting. Visitors will be offered the opportunity to book personal online demos of treatment planning system RayStation®* and oncology information system RayCare®*.

RaySearch will present recent and upcoming enhancements, as well as new functionality, in RayStation and RayCare. Among the highlights in RayStation are support for brachytherapy planning and robust proton planning using machine learning. In RayCare, additional automation capabilities will be on show – such as support for scripting and enhanced workflow management tools.

Brachytherapy planning in RayStation

The upcoming release of RayStation 10B is expected in December 2020* and will add support for brachytherapy planning. This is in line with the company's aim to support as many treatment delivery systems as possible. RayStation will feature automatic channel reconstruction in combination with powerful dwell time optimization to make the creation of high-quality brachy plans faster and more consistent.

Machine learning planning in RayStation

Machine learning capabilities were added to RayStation 8B and are being continuously improved. Their applications in RayStation increase efficiency and improve consistency, while facilitating model sharing between cancer clinics. ASTRO 2020 will see demos of machine-learning planning for photons and robust proton planning – as well as deep-learning organ segmentation.

Johan Löf, founder and CEO, RaySearch, says: "Machine learning is without doubt one of the most exciting developments within medical software right now. Harnessing the massive potential of machine learning will transform the industry and improve access to and the quality of cancer treatment."

RayCare further promotes efficiency and safety

Released in June 2020, RayCare 4A further promotes efficiency and safety by reducing routine manual tasks and handovers. Its unique workflow management capabilities are enhanced by the introduction of task management for clinical teams. Further functionalities in RayCare 4A include support for scripting as well as automated support for running RayStation scripts from tasks with forks – as well as several new patient chart features. RayCare 4B is expected in December 2020*.

Virtual demonstrations

Visitors to ASTRO 2020 will be offered the opportunity to book personal online demos of treatment planning system RayStation and oncology information system RayCare.

Partnerships play a crucial role in the development of RayStation and on show at ASTRO 2020 will be the ways in which RaySearch is creating new levels of advanced efficiency in radiotherapy imaging and planning together with Accuray, Canon Medical and IBA:

Demos of RayStation and RayCare functionality for the TomoTherapy® delivery system from Accuray will be available. RayStation includes full support for the TomoTherapy and Radixact® Systems, including advanced features such as multi-criteria optimization, adaptive planning and Plan Explorer.

Canon Medical and RaySearch are collaborating on a highly flexible and efficient workflow for virtual simulation, which complements Canon Medical's CT, PET/CT, and MRI simulators. It can optionally be expanded with deformable registration.

IBA and RaySearch entered into a long-term strategic collaboration in 2016 to combine their respective technologies and future developments in proton therapy such as motion management, adaptive, ARC and FLASH therapy. In both RayStation and RayCare, as well as in the IBA delivery solutions, joint features, dedicated software interfaces and modified graphical user interface components facilitate close and seamless workflow integration with optimized performance. In July 2020, the first patients were treated with this common solution at Particle Center at University of Leuven in Belgium.

About RaySearch

RaySearch is a medical technology company that develops innovative software solutions to improve cancer care. The company markets worldwide its treatment planning system RayStation and next-generation oncology information system RayCare. Over 2,600 clinics in more than 65 countries use RaySearch software to improve life and outcomes for patients. The company was founded in 2000 and the share has been listed on Nasdaq Stockholm since 2003.

About RayStation

RayStation is a flexible, innovative treatment planning system, chosen by many of the leading cancer centers worldwide. It combines unique features such as unmatched adaptive therapy capabilities, multi-criteria optimization, market-leading algorithms for IMRT and VMAT optimization with highly accurate dose engines for photon, electron, proton and carbon ion therapy. RayStation supports a wide range of treatment machines, providing one control center for all treatment planning needs and ensuring centers get greater value from existing equipment. RayStation also seamlessly integrates with RayCare, the next-generation oncology information system. By harmonizing the treatment planning, we enable better care for cancer patients worldwide.

About RayCare

RayCare is designed to support the complex logistical challenges of modern oncology clinics. It represents the future of oncology information system technology, supporting the vision of one oncology workflow. Many cancer patients receive a combination of treatment types, and RayCare is designed to reflect that. It will efficiently coordinate activities in radiation therapy, chemotherapy and surgery and will offer advanced features for clinical resource optimization, workflow automation and adaptive radiation therapy. RayCare is being developed with tomorrow's requirements for advanced analytics and decision support in mind.

Subject to regulatory clearance in some markets.

More information about RaySearch is available at www.raysearchlabs.com

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