Latest RaySearch proton innovations to be showcased at PTCOG 57

During 21-25 May, RaySearch will exhibit at the PTCOG57 congress in Cincinnati, US, and demonstrate the latest proton news in RayStation. RaySearch will also show the latest updates in the next generation oncology information system, RayCare™. Attendees, welcome to visit RaySearch at booth #P2, and don't forget to book a demo at www.raysearchlabs.com.

Key proton features in RayStation

RaySearch is proud to be a world leader in proton therapy software, with well received proton features in RayStation, such as the fast Monte Carlo (MC) dose engine for PBS. A newly conducted survey shows that, only a year after the release, 13 of the 18 RayStation proton sites in clinical operation are using the proton MC dose engine.

RayStation's renowned proton features on display at PTCOG 57 will include our pioneering 4D robust optimization, adaptive re-planning, PBS planning with apertures and interplay evaluation. News for RayStation 7 include multi-criteria optimization (MCO) with robust constraints, and simulated organ motion. We will also demonstrate LET-based pencil beam scanning optimization, a feature currently in research, but scheduled for a coming release.

RaySearch will demonstrate RayStation's leading features for carbon ion beam therapy and new functionality including robust optimization, dose tracking and adaptive re-planning tools.

Productive partnerships

RaySearch will also demonstrate the results of its commercial partnership with IBA and online adaptive proton therapy workflows that integrate RayStation, RayCare and IBA's Adapt Deliver application. In this type of workflow, daily cone beam CT images are taken and matched to the planning CT for the patient. Based on the daily images, an updated treatment plan can be automatically suggested during a treatment session. A plan adaptation that takes the patient's current situation into account can thus be made before treatment delivery starts. This workflow benefits patients by allowing for more accurate treatments and faster plan adaptation.

Planning for Mevion's Hyperscan technology will be on display as well, which is an outcome of the ongoing collaboration between RaySearch and Mevion.

These developments are in line with RaySearch's strong ambition to unify treatment planning for as many systems as possible, eliminating the complications and additional steps that arise from using multiple software systems.

RayCare news

RayCare 1 was launched in December 2017 and is already in clinical use at Iridium Cancer Network in Belgium. Development of upcoming versions of RayCare* is going forward rapidly. RaySearch will demonstrate the latest improvements and features at PTGOG 57, like advanced workflow management tools and integrated planning workflow support for RayStation. RayCare's digital workflows are highly configurable and the task management features enable an integrated planning experience with RayStation, supporting automation of protocol steps and communication around planning tasks.

Other features on show will include the built-in PACS system, which supports automation of imaging workflows, and the control room client for radiation therapy treatment management.

Lunch symposium: Advancing Radiation Therapy Through Software Innovation

On Friday 25 May, 11:30-12:30pm, RaySearch will hold a lunch symposium focusing on advancing radiation therapy through software innovation. Location: Grand Ballroom. Moderator will be Marc Mlyn, President of RaySearch Americas Inc.

11:30 - 11:45 Welcome

Moderator Marc Mlyn, President RaySearch Americas, Inc., New York, USA.

11:45 - 12:05 A comprehensive approach to lung treatment with 4D-robust optimization and MC dose calculation in RayStation

Chang Chang, Ph.D, D.A.B.R., Director of Physics, Texas Center for Proton Therapy, US.

12:05 - 12:25 The sharper edge: Clinical benefits of aperture-based PBS

Vinai Gondi, MD, Director of Research & Education, Northwestern Medicine Chicago Proton Center, US.

12:25-12:30 Questions and answers

About RayCare

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.

About RayStation

RayStation integrates all RaySearch's advanced treatment planning solutions into a flexible treatment planning system. It combines unique features such as multi-criteria optimization tools with full support for 4D adaptive radiation therapy. It also includes functionality such as RaySearch's market-leading algorithms for IMRT and VMAT optimization and highly accurate dose engines for photon, electron, proton and carbon ion therapy. The system is built on the latest software architecture and features a graphical user interface with state-of-the-art usability.

About RaySearch

RaySearch Laboratories AB (publ) is a medical technology company that develops innovative software solutions for improved cancer treatment. RaySearch markets the RayStation treatment planning system to clinics all over the world and distributes products through licensing agreements with leading medical technology companies. The company has now launched the next-generation oncology information system, RayCare*, which comprises a new product area for RaySearch. RaySearch's software is used by over 2,600 clinics in more than 65 countries. The company was founded in 2000 as a spin-off from Karolinska Institute in Stockholm and the share has been listed on Nasdaq Stockholm since 2003.

To learn more about RaySearch, go to: www.raysearchlabs.com

* Subject to regulatory clearance in some markets.

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