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First patient treated with RayStation® in the US

RaySearch Laboratories AB announces that the first cancer patient has been treated using a treatment plan created with RaySearch's treatment planning system RayStation®. The treatment was carried out at the Massachusetts General Hospital Radiation Oncology Department. The patient is being treated for a brain tumor using Intensity Modulated Radiation Therapy (IMRT) and the treatments are being delivered on an Elekta linear accelerator.

The plan was developed using a unique software solution for IMRT called multi-criteria optimization (MCO). This highly intuitive tool is integrated in RayStation® and lets the clinician evaluate the impact of changing different treatment priorities in real-time, which has a large potential to speed up the time-consuming treatment planning optimization process.

"We are pleased that we have now treated the initial patient with multi-criteria optimization for IMRT," says David Craft, PhD, of Radiation Oncology Department at Massachusetts General Hospital. "Our ultimate goal is to deliver the radiation dose precisely to the intended target while sparing as much healthy brain as possible. Multi-criteria optimization helps us control the conformality of the dose to the specific treatment location. We are looking forward to applying this technology to other disease sites."

"We are excited that the first clinical implementation of RayStation® was done by the team at MGH. The hard work put into the implementation and the subsequent quality assurance of the resulting treatment plans really gave everyone a high degree of confidence that the patient was going to get the best treatment possible," says Marc Mlyn, President of RaySearch Americas.

"The development of RayStation® has been our main focus during the last few years and I am fully convinced that it is the most advanced and modern treatment planning system on the market today. It is the vehicle that we will use to continuously bring new and improved solutions to cancer clinics all over the world to help them deliver more effective radiation therapy to their patients. Since the foundation of RaySearch more than a decade ago, software modules from our company have already been used for the treatment of millions of cancer patients. However, this is the first time that a patient was treated using a treatment plan that was completely created within RayStation®. This is of course a very important and emotional moment for us as well as the starting point of a new era for RaySearch", says Johan Löf, CEO of RaySearch.

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 both photon and proton therapy. The system is built on the latest software architecture and has a graphical user interface offering state-of-the-art usability.

ABOUT RAYSEARCH

RaySearch Laboratories is a medical technology company that develops advanced software solutions for improved radiation therapy of cancer. RaySearch's products are mainly sold through license agreements with leading partners such as Philips, Nucletron, IBA Dosimetry, Varian, TomoTherapy and Siemens. To date, 15 products have been launched through partners and RaySearch's software is used at some 1,800 clinics in more than 30 countries. In addition, RaySearch offers the proprietary treatment planning system RayStation® directly to clinics. RaySearch was founded in 2000 as a spin-off from Karolinska Institutet in Stockholm and the company is listed in the Small Cap segment on NASDAQ OMX Stockholm.

For more information about RaySearch, visit www.raysearchlabs.com.

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