

AGENDA FOR THE 9TH RAYSTATION USER MEETING 2020

DECEMBER 3–4, 2020 | STARTING AT 9:00 CST



THURSDAY, DECEMBER 3

09:00–09:10	Welcome to the 9th RaySearch User Meeting	Marc Mlyn, President of RaySearch Americas
09:10–09:30	RaySearch Americas update	Marc Mlyn, President of RaySearch Americas; David McPhail, VP of Sales
09:30–10:00	RayStation 2020 and future work	Emil Ekström, RayStation Chief Functionality Owner; Dayna Bodensteiner, Director of Product Management
10:00–11:00	RaySearch research update	Kjell Eriksson, Chief Science Officer
11:00–11:30	RaySearch machine learning update	Fredrik Löfman, Head of Machine Learning
11:30–12:00	Round table discussion with development, research and machine learning specialist from RaySearch	
12:00–13:00	LUNCH BREAK	
13:00–14:00	Dose accumulation and adaptive RT: Clinical translation, usability and new horizons	Kristy K. Brock, PhD, DABR, FAAPM, Professor- Department of Imaging Physics, Professor-Depart- ment of Radiation Physics, The University of Texas MD Anderson Cancer Center
PARALLEL BREAKOUT SESSIONS		
Adaptive therapy		Scripting
14:00–14:30	A feasibility study to predict an optimal time for replan based on the daily anatomy changes for head and neck cancer patients Manju Sharma, PhD, DABR, Assistant Professor Department of Radiation Oncology, University of California San Francisco	A successful transition to RayStation: Building concrete scripting architecture to boost efficiency and automation in the clinic Aimee Lauzon, M.Sc., MCCPM, Medical Physicist, CISSS Laval
14:30–15:00	Surveillance of lung and head and neck radiotherapy using CBCT dose calculation framework Giovanni Lasio PhD, DABR, Associate Professor, University of Maryland School of Medicine	Improving the RayStation experience through scripting and templates Fan Chen, PhD, DABR, Medical Physicist, Swedish Cancer Institute
15:00–15:15	BREAK	

PARALLEL BREAKOUT SESSIONS		
Proton therapy		Photon therapy planning
15:15–15:45	Technical advancements to help revolutionize proton therapy planning Martin Janson, Senior Product Manager Proton Therapy RaySearch Laboratories	Robust optimization for modulated breast treatments Xiaoying Liang, PhD, DABR, University of Florida
15:45–16:15	Improved proton SBRT quality and efficiency with optimized RayStation planning techniques Jun Zhou, PhD, DABR, Lead Physicist Treatment Planning, Emory Proton Therapy Center and Stella Flampouri, PhD, DABR, Senior Physicist, Emory Proton Therapy Center	Single isocenter multiple metastasis brain treatment: The love child of whole brain and SRS Lexie Smith-Raymond, MAdm, BS, RT(R)(T), CMD – Director of Radiation Oncology, Banner University Medical Center Tucson and Angela Locke, BS, RT(T), CMD, Banner University Medical Center Tucson
16:15–16:45	Spot-scanning proton arc therapy Xuanfeng Ding, PhD, DABR, Assistant Professor Beaumont Health and Oakland University	The dancing cord: Inherent spinal cord motion and its effect on cord dose in spine SBRT with a discussion on robust optimization Patricia Sponseller - MS, CMD, RTT (R)(T), University of Washington
16:45–17:15	Automated proton chart check through RayStation scripting Baoshe Zhang, PhD, DABR, Assistant Professor Medical Physics, University of Maryland School of Medicine	Improved method for definition of the external contour in RayStation Don Hancock, BS, CMD, RT(N), The University of Texas MD Anderson
17:15–17:30	Closing remarks	Marc Mlyn, President of RaySearch Americas



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FRIDAY, DECEMBER 4

09:00 –09:10	Welcome back day 2 of the user meeting	Dayna Bodensteiner, Director of Product Management
09:10–09:30	Brachytherapy	Elin Zambeaux, Brachytherapy Functionality Owner
09:30–09:50	Multiple metastasis treatment planning - future improvements	Cecilia Battinelli, Researcher
09:50–10:10	Proton planning with machine learning	Mats Holmström, Machine Learning Engineer
10:10–10:30	Cyberknife planning	Anna Lundin, RayStation Technical Lead
10:30–10:45	BREAK	
10:45–11:05	RayIntelligence	Fredrik Löfman, Head of Machine Learning
11:05–11:25	RayTreatment with Varian TrueBeam	Björn Hårdemark, Deputy C&O RaySearch Laboratories
11:25–11:45	EPID Dosimetry	Cameron Ditty, Senior Medical Physicist RaySearch Laboratories and Erik Engwall, Head of Physics RaySearch Laboratories
11:45–12:15	Live chat room discussion on the above topics - please join two 15 min sessions	
	Session 1 - 15 minutes	
	Session 2 - 15 minutes	
12:15–13:30	LUNCH BREAK	
INNOVATIONS IN PLANNING		
13:30–14:00	An open-source script for interactive prevention of mechanical collisions during treatment planning in RayStation	Fernando Hueso Gonzalez, PhD and Kyla Remillard BS, CMD, Massachusetts General Hospital
14:00–14:30	Clinical use and interrogation of machine learning-based automated treatment planning for prostate cancer	Leigh Conroy, PhD, Assistant Professor, Department of Radiation Oncology, Medical Physicist, Department of Medical Physics, Radiation Medicine Program, Princess Margaret Cancer Centre

RAYCARE		
14:30–15:00	RayCare 4B and RayCare Flow	Misty Lehman-Davis, CMD, BS RayCare Product Manager RaySearch Americas
15:00–15:15	BREAK	
PARALLEL BREAKOUT SESSIONS		
Physics/Commissioning		Photon Therapy Planning - Dosimetry
15:15–15:45	Assessment and improvements of MLC models based on synchronous and asynchronous sweeping gap test <i>Jordi Saez, Department of Radiation Oncology, Hospital Clinic de Barcelona, and Victor Hernandez, Department of Medical Physics, Hospital Universitari Sant Joan de Reus</i>	Advanced planning for chordoma: Top ranked 2020 plan challenge winners <i>Peter Treon, CMD, Rhode Island Hospital; Megan Rodrigues, BS, CMD, Willis Knighton Cancer Center; James Henry, CMD, Willis Knighton Cancer Center</i>
15:45–16:15	From cosmic rays to casinos: Transitioning to RayStation Monte Carlo electrons <i>Kent Gifford, PhD, The University of Texas MD Anderson Cancer Center</i>	
16:15–16:45	Unlocking a closed system: Dosimetric commissioning of a ring gantry linear accelerator in a multi-vendor environment <i>Vladimir Feygelman, PhD, Moffitt Cancer Center and Research Institute</i>	
16:45–17:00	Closing remarks	Marc Mlyn, President of RaySearch Americas
17:00–TBD	RaySearch Happy Hour	

ADVANCING
CANCER
TREATMENT

