8th Øresund Workshop on Radiotherapy
February 26-27, 2020

February 26

09:15-09:45 Registration, coffee & sandwich

09:45-10:00 Welcome and introduction

Leadership Perspectives

10:00-10:30 *Invited Speaker*

Johanna Svensson, Sahlgrenska UH, Göteborg
The impact of research on clinical radiotherapy at Sahlgrenska UH

Collaborative Presentation

10:30-11.00 **Emilia Persson** and **Anders Olin**
Strategies for implementing MRI-only radiotherapy workflows (in Copenhagen and Lund)

11:00-11:20 Coffee

Proffered Papers

11:20-12:05 *Oral presentations*

Sofie Ceberg
Scientific findings and clinical experiences of surface guided radiotherapy

Erik Pettersson
Comparison of dual-energy CT techniques for metal artefact reduction

Laura Rechner and **Edward Smith**
Biological uncertainties for pediatric patients with mediastinal Hodgkin lymphoma treated with proton therapy

12:05-13:05 Lunch

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13:05-15:55 *Interactive poster discussions, including coffee and cake*

André Haraldsson
Acute toxicity and haematological recovery following total marrow irradiation compared to total body irradiation

Kristian Hastoft Jensen
Early mortality after radical radiotherapy in head and neck cancer

Annika Mannerberg
Risk of underdosage for hypofractionated prostate cancer patients in MRgRT

Lina Andersson
First clinical experience using Ethos online adaptive radiotherapy

Gabriel Adrian
Radioresistance due to EGFR-inhibition in head and neck cancer cell lines

Mikkel Skaarup
Voxel-based assessment of proton dose effects in paediatric brain cancer radiotherapy from multimodal imaging

Sebastian Sarudis
Intrafractional motion when using a Surface Guided Radiation Therapy frameless positioning approach for Stereotactic Body Radiation Therapy in the lung

Julia Götstedt
The use of an aperture-based complexity metric in the comparison of VMAT treatment plans created in different treatment planning systems

15:55-16:40 *Oral presentations*

Mie Marienhof Krøyer von Staffeldt
In Vivo Dosimetry for Murine Irradiation Studies

Elise Konradsson
Towards clinical trials of ultra-high dose rate FLASH radiotherapy

Joakim Medin
Validation of synthetic CT's of the brain generated with a commercially available deep learning software

Gold Sponsor Presentation

16:40-17:00 ViewRay

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Poster Session with Refreshments

17:00-18.00 **Signe Winther Hasler**
Geometric distortions in three patient groups treated on 1.5 T MR-Linac

Magdalena Skowyra
Radio-fluorogenic, solid-state, 3D polymer dosimeter

Morta Marcinkute
Dosimetric assessment of skin cancer treated with low voltage X-rays

Mads Fjelbro Klavsen
Time-resolved dosimetry in MR-linac without image distortion – how to do it

Emmanouil Terzidis
Utilization of scripting for automatic target coverage improvement in lung cancer plans

Kassiani Tsemperlidi
Different image registration strategies for image guided radiotherapy of oesophageal cancer

19:00 **Dinner**

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9:00-10.00 *Oral presentations*

Patrik Sibolt
Building on first clinical experience of Ethos to initiate clinical trials in the Øresund region

Isak Wahlstedt
Individual planning dose distributions for online-adaptive treatments with internal MRI gating

Christian Jamtheim Gustafsson
Automatic fiducial marker identification in prostate radiotherapy MRI images using Deep Learning

Jens Edmund
Cone beam-CT guided treatment delivery and CT quality verification for MRI-only radiotherapy of the pelvis

10:00-10:20 Coffee + vote for best presentation

Theme – Individualised Radiotherapy

10:20-11:30 Group discussion

11:30-12:10 *Invited Speaker*
Catharine West, University of Manchester, Manchester
Radiation response predictors for individualised radiotherapy

12:10-13:10 Lunch

13:10-13:50 *Invited Speaker*
Uwe Ölfke, The Institute of Cancer Research, London
Individualised radiotherapy from a medical physics perspective

13.50-14.30 Panel discussion

14:30-14:40 Coffee + cake/fruit

Achievements

14:40-14:55 Best presentation awards

14:55-15:25 Quiz

15:25-15:30 Evaluation