



4th Øresund Workshop on Radiotherapy February 2-3, 2016

February 2

9:15-9:45 Registration, coffee & sandwich

9:45-10:00 Welcome

10:00-11:00 Hypo-fractionation – invited speakers

10.00 The radiobiology of hypo-fractionation, Alan Nahum, Clatterbridge

10.30 Clinical review on hypo-fractionation for prostate treatments, Jon Kindblom, Sahlgrenska University Hospital

11:00-11:20 Coffee

11:20-11:50 Hypo-fractionation – proffered papers

- *FFF VMAT in hypo-fractionated radiotherapy for prostate cancer, Hunor Benedek, Skåne University Hospital*
- *Implementing AXB for SBRT lung treatments, Emma Hedin, Sahlgrenska University Hospital*
- *The impact of interplay effect in SBRT lung treatments for 6MV and 6MV-FFF using EBT3 film, Drita Elezaj, Herlev Hospital*

11:50-12:20 Structured discussion

12:20-12:50 Clinical radiotherapy – proffered papers

- *Proton radiotherapy for breast cancer, Line Stick, Rigshospitalet*
- *Radiotherapy quality related to clinical outcome: Results from the RT-QA of DAHANCA19, Eva Samsøe, Herlev Hospital*
- *Implementation of rotational radiotherapy in a resource-limited setting, Jens Engleson, Skåne University Hospital*

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12:50-13:50 Lunch

13:50-15:10 Motion – proffered papers

- *CBCT and DIR to examine the dose for DIBH radiotherapy with and without positioning using an optical surface scanning system, Susanne Nørring Bekke, Herlev Hospital*
- *Deep-inspiration breath-hold (DIBH) for locally advanced lung cancer radiotherapy, Wiviann Ottosson, Herlev Hospital*
- *4D Monte Carlo calculations of lung cancer radiotherapy, Patrik Sibolt, Herlev Hospital*
- *Accuracy and limitations of deformable image registration with SmartAdapt in the thorax region, Sebastian Sarudis, Sahlgrenska University Hospital*
- *Motion induced interplay effects for hypo-fractionated FFF VMAT treatment of liver tumours, Anneli Edvardsson, Lund University*

14:40-14:50 Coffe

- *Latency characterization of gated radiotherapy treatment beams using a PIN diode circuit, Malin Kügele, Skåne University Hospital*
- *Advanced techniques to minimize side effects in young radiotherapy patients treated in the thoracic region, Laura Rechner, Rigshospitalet*

15:10-15:50 Imaging and dosimetry – proffered papers

- *Using dual energy CT for radiotherapy treatment planning for patients with metal implants, Erik Pettersson, Sahlgrenska University Hospital*
- *Dual Energy CT and Iterative Metal Artifact Reduction for Radiotherapy, David Kovacs, Rigshospitalet*

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- *Investigation of in-air output ratios in FFF beams, Mårten Dalaryd, Skåne University Hospital*
- *Monte Carlo patient-specific pre-treatment QA system for volumetric modulated arc therapy, Roumiana Chakarova, Sahlgrenska University Hospital*

15:50-16:10 Coffee & cookies

16:10-17:30 Scientific speed-dating

17:30-17:50 Sponsor presentation

19:00 Dinner

February 3

9.00-10.10 Immunotherapy and radiotherapy – invited speakers

9.00 Basic cancer immunology and immunotherapy, Per Thor Straten, Herlev Hospital

*9.30 Review on the combination of immunotherapy and radiotherapy
Silvia Formenti, Meyer Cancer Institute, New York*

10:10-10:30 Coffee & Swedish “kanelbulle”

10:30-11:00 Immunotherapy and radiotherapy – proffered papers

- *Effect of blockade of indoleamine 2, 3-dioxygenase in conjunction with single fraction irradiation in rat glioma, Henrietta Nittby, Skåne University Hospital*
- *Radiotherapy combined with immunotherapy for melanoma – preparations for a clinical trial, Ana Carneiro, Skåne University Hospital*
- *Microbeam therapy – preclinical trials at the ESRF, Thomas Breslin, Skåne University Hospital*

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11:00-11:30 Structured Discussion

11:30-11:40 Coffee

11:40-13:40 MRI – proffered papers

- *From inspiration to publication: An Øresund experience of CBCT based IGRT and QA for MRI-only RT, Jens Edmund, Herlev Hospital*
- *Gentle Radiotherapy – a national network, Lars-Erik Olsson, Lund University*
- *Methodology and recommendations for using MR in radiotherapy - a Vinnova Gentle Radiotherapy project, Christian Gustafsson, Skåne University Hospital*

12:10-13:10 Lunch

- *MRI only prostate radiotherapy using synthetic CT images, Emilia Persson, Skåne University Hospital*
- *Patterns of failure for patients with glioblastoma following FLT PET- and MRI-guided radiation therapy, Michael Lundemann, Rigshospitalet*
- *Diffusion MRI predicts radiotherapy response in brain metastases, Faisal Mahmood, Herlev Hospital*

13:40-15:00 Group discussions

15:00-15:20 Coffee & cookies

15:20-15:50 Report from Group discussions

15:50-16:10 Conclusion & goodbye

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