



5th Øresund Workshop on Radiotherapy

February 8-9, 2017

February 8

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

09:45-10:00 Welcome

10:00-10:20 Invited speaker

Silke Engelholm, MD, SUS

Future opportunities and challenges in clinical radiotherapy

10:20-11:10 Proffered papers

- *Ultra-early ADC (apparent diffusion coefficient) footprint successfully detects tumor irradiation and predicts radiotherapy outcome, Faisal Mahmood, Herlev Hospital*
- *Diffusion-weighted MRI of non-irradiated parotid glands and parotid glands exposed to radiotherapy, Maja Bruvo, Herlev Hospital*
- *3D dose reconstruction from fluorescence images of a radiofluorogenic polymer, Nicolai Sanders, DTU*
- *Increasing the sensitivity of a radiofluorogenic 3D solid polymer dosimeter, Maria del Rocio Bernal-Zamorano, DTU*

11:10-11:30 Coffee

11:30-12:30 Proffered papers

- *Will quenching kill organic scintillator dosimetry in small photon fields? Grichar Valdes Santurio, DTU*

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- *Motion induced interplay effects for FFF VMAT radiotherapy – a virtual phantom study, Anneli Edvardsson, Lund University*
- *Monte Carlo based four-dimensional dose calculation methods in lung cancer radiotherapy, Patrik Sibolt, DTU*
- *MR-only prostate external radiotherapy treatment planning - a multi-center/multi-vendor validation, Emilia Persson, Skåne University Hospital*
- *Iterative reconstruction for metal artifact reduction using conventional MRI, Jonathan Scharff Nielsen, Herlev Hospital*

12:30-13:30 Lunch

13:30-14:30 Proffered papers

- *Development of complexity metrics for clinical VMAT treatment plans, Julia Götstedt, Sahlgrenska University Hospital*
- *Clinical implementation of Monte Carlo QC for the advanced VMAT treatment technique, Rickard Cronholm, Skåne University Hospital*
- *Failure-type specific prognostic tool for selection of head and neck cancer patients for experimental treatments, Katrin Håkansson, Rigshospitalet*
- *Loco-regional pattern of failure in vulvar cancer patients after treatment with chemradiation, Christina Vorbeck, Rigshospitalet*
- *Investigation of ionisation chamber correction factors for flattening filter free photon beams, Mårten Dalaryd, Skåne University Hospital*

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14:30-14:50 Coffee

14:50-15:35 Invited speaker

Pierre Scalliet, MD, PhD, UCL St-Luc
Quality in radiotherapy

15:35-16:05 Coffee

16:05-16:50 Discussion session: Quality in radiotherapy

16:50-17:20 Plenum discussion

17:20-17:40 Sponsor presentation

19:00 Dinner

February 9

09:00-10:00 Proffered papers

- *TEDDI: Radiotherapy Delivery in Deep Inspiration for Pediatric Patients, Anni Young Stensgård Jörgensen, Rigshospitalet*
- *A model based design for a randomized trial of proton versus photon therapy with the aim of reducing side effects, Jonas Scherman Rydhög, Rigshospitalet*

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- *Relating Cherenkov radiation in organic fibres to the depth profile of a proton beam in water, Jeppe Brage Christensen, DTU*
- *Evaluation of intrafractional isocenter motion during DIBH radiotherapy for left sided breast cancer patients, Malin Kügele, Skåne University Hospital*
- *CT metal artefact reduction for volume delineation with Dual Energy CT: a phantom study, Erik Pettersson, Sahlgrenska University Hospital*

10:00-11:20 Group discussions

| Group | Part I (before coffee) | Part II (after coffee) | Moderator |
|-------|--|---|--|
| A | <i>Erik Pettersson Sahlgrenska Univ Hosp</i> | <i>Jonathan Scharff Nielsen Herlev Hospital</i> | <i>Jens Edmund Herlev Hospital</i> |
| B | <i>Rickard Cronholm Skåne Univ Hosp</i> | <i>Jonas Scherman Rydhög Rigshospitalet</i> | <i>Eva Samsøe Herlev Hospital</i> |
| C | <i>Anneli Edvardsson Lund University</i> | <i>Julia Götstedt Sahlgrenska Univ Hosp</i> | <i>Fredrik Nordström Sahlgrenska Univ Hosp</i> |
| D | <i>Anni Jörgensen Rigshospitalet</i> | <i>Malin Kügele Skåne Univ Hosp</i> | <i>Sofie Ceberg Skåne Univ Hosp</i> |
| E | <i>Maja Bruvo Herlev Hospital</i> | <i>Christina Vorbeck Rigshospitalet</i> | <i>Lena Specht Rigshospitalet</i> |

ca 10:35-10:45 Coffee

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11:20-11:40 Invited speaker

Maja Maraldo, MD, PhD, Rigshospitalet
Proton therapy for Hodgkin lymphoma

11:40-12:00 Competition

12:00-13:00 Lunch

13:00-13:45 Invited speaker

Tony Lomax, Professor, PSI
Proton therapy

13:45-14:00 Coffee

14:00-14:45 Point-counterpoint debate

Pierre Scalliet vs. Tony Lomax
Are radiation dose plan comparisons appropriate for selecting patients for proton therapy?

14:45-15:00 Conclusion & goodbye

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