DCCC Radiotherapy

DCCC Radiotherapy Annual meeting October 24-25, 2019.

Conference center 'Sund og Skov', Oddevejen 8, 5500 Middelfart

Thursday October 24

09:00-09:30 **Arrival and coffee**

09:30-10:00 **Welcome and news from DCCC Radiotherapy - Cai, Jesper, and Stine.**
Activities
Budget
Objectives

10:00-10:30 **National infrastructures – plenary presentations from work groups**

- WP 10 – Experimental radiation oncology
- WP 11 – National dosimetry lab
- WP 12 – National radiotherapy imaging data bank
- WP 13 – Clinical trials quality assurance platform
- WP 14 – Bioinformatics and modelling core
- WP 15 – Education and knowledge dissemination

10:30-11:30 **First break-out session. National infrastructures.**
Discussion of ongoing projects and future initiatives.

11:30-11:50 **Translational research focus areas – plenary presentations from work groups, round 1.**

- WP1 – Molecular biomarkers
- WP3 – Immuno-radiotherapy
- WP5 – Treatment planning and automation
- WP6 – Epidemiology, patterns of care, phase IV

11:50-12:45 **Lunch**

12:45-13:45 **Second break-out session – Translational research focus areas, round 1.**
Discussion of ongoing projects and future initiatives.

13:45-15:15 Plenary thematic session on AI:
Invited keynote lecture: 'Artificial Intelligence and Deep Learning for Medical Imaging', by Ole Winther, Professor of Genomic Bioinformatics, Copenhagen University Hospital.

Presentations of AI related projects in Danish RT Centers, including deep learning for segmentation, radiomics for outcome prediction, Ethos application, and more.

15:15-15:45 Coffee

15:45-16:15 Flash talks session 1, plenary

- Maja Sharma, Aarhus University Hospital: Morbidity after radiation therapy for sinonasal cancer
- Marie Tvilum, Aarhus University Hospital: Optimal Individual Treatment Strategy for Every Non-small Cell Lung Cancer Patient
- Jintao Ren, Aarhus University Hospital: Automatic head and neck tumor delineation with deep learning
- Jens Petersen, University of Copenhagen & Rigshospitalet: Deep learning based-image annotation methods for risk modelling: towards automation for registry-based complication modeling
- Marie Louise Milo, Aarhus University Hospital: Risk of radiotherapy induced heart disease in women treated for early stage breast cancer
- Stine Rauff Søndergaard, Vejle Sygehus: Shared Decision Making for breast cancer patients who are offered adjuvant radiotherapy.
- Anna Cecilie Lefevre, Aarhus University Hospital: Prognostic markers in squamous cell carcinoma of the anus.
- Anders Schwartz Vittrup, Aarhus University Hospital: LAte PERsistant Substantial Patient-Reported Symptoms (LAPERS) after Radio(chemo)therapy & MRI-Guided Adaptive Brachytherapy for Locally Advanced Cervical Cancer in the EMBRACE study.

16:15-17:25 **Plenary presentations from the intervention protocol work groups.**

- IP1 – Children
- IP2 – Brain
- IP3 – Eye
- IP4 – Head and neck
- IP5 – Lung
- IP6 – Breast
- IP 7– Upper gastrointestinal

18:30 **Dinner**

Friday October 25

07:00-07:30 **Morning run**

07:30-08:30 **Breakfast**

08:30-09:10 **Flash talks session 2, plenary**

- Casper Muurholm, Aarhus University Hospital: Experimental validation of real-time dose reconstruction during dynamic treatments in a pelvis phantom with rotating tumor insert
- Simon Jensen, Aarhus University: Motion and deformation in 3D dosimetry
- Kristian Hastoft Jensen, Copenhagen University Hospital, Rigshospitalet: Early mortality following radical radiotherapy in patients with head and neck cancer
- Cathrine Bang Overgaard, Aarhus University Hospital: Preclinical RBE for normal tissue damage established in in vivo model
- Jacob Johansen, Aarhus University Hospital: Multi-centre study of real-time in vivo dosimetry for brachytherapy
- Signe Winther Hasler, Odense University Hospital: National Interdisciplinary Network for Quality Assurance of MR images in radiotherapy (NIMBUS)
- Raul Argota Perez, Aarhus University Hospital: Individualized robustness in treatment planning for head and neck proton radiotherapy
- Esben Worm, Aarhus University Hospital: Proton therapy of tumors in the liver: Prescription strategy, motion and interplay effects.
- Laura Toussaint, Aarhus University Hospital / DCPT: Voxel-based analysis of brain MRI changes after radiation therapy for pediatric central nervous system tumors
- Sofie Rahbek, DTU and OUH: Title tbc

09:10-09:50 Plenary presentations from the intervention protocol work groups.

- IP8 – Liver – gall bladder
- IP9 – Pancreas
- IP10 – Colorectal
- IP11 – Anal canal

09:50-10:10 Coffee

10:10-10:30 Translational research focus areas – plenary presentations from work groups, round 2.

- WP2 – Imaging biomarkers
- WP4 – Adaptive radiotherapy
- WP7 – Late effects and PROM
- WP8 – Model-based selection

10:30-11:30 Third break-out session – Translational research focus areas, round 2.
Discussion of ongoing projects and future initiatives.

11:30-12:10 Plenary presentations from the intervention protocol work groups.

- IP12 – Gynaecology
- IP13 – Prostate
- IP14 – Sarcoma
- IP15 – Oligometastatic disease

12:10-12:30 Wrap up – Cai, Jesper, and Stine.

12:30-13:15 Lunch

13:15-15:00 Work group meetings – option for meetings within and across workgroups.

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