



Friday June 20<sup>th</sup> 2025  
**Scientific and Clinical Project Day – RKF radiotherapy**  
Catharina Ziekenhuis Eindhoven  
Congreszaal



## Program

### 09:30 – Welcome with coffee

### 10:00 – First session (1:15)

- *Towards clinical introduction of T2-TSE-cine images for an intrafraction drift correction workflow at the Unity MR-Linac* – Lieke Meijers, UMCU.
- *CBCT-MOTUS: motion correction in CBCT imaging using gate-less model-based reconstruction of non-rigid motion and images* – Ethan Waterink, UMCU.
- *Photon-counting CT for radiotherapy purposes – where are the clinical benefits?* – Thiele Kroes-Kobus, Erasmus MC.
- *BRIGHT: a multi-objective semi-automated treatment planning method for brachytherapy* – Renzo Scholman, LUMC.
- *Automating implant reconstruction in pelvic brachytherapy using afterloader-integrated electromagnetic tracking* – Ioannis Androulakis, Erasmus MC.

### 11:15 – Coffee break

### 11:45 – Second session (0:45)

- *Monitoring the application of auto-segmentation in clinical practice* – Rita Simoes, NKI.
- *Clarifying the dosimetric impact of auto-segmentation inaccuracies* – Joëlle van Aalst, UMCG.
- *Results of continuous QA for deep learning segmentations in radiotherapy making use of statistical process control for automatic performance monitoring* – Niels van Acht, CZE.

### 12:30 – Lunch

### 13:30 – Third session (1:15)

- *Development of a prediction model for radiation-induced contrast enhancement after proton therapy for brain tumours in paediatric patients.* – Abel Bregman, UMCG.
- *Capacity-limited triage in proton therapy: a  $\Delta$ NTCP prioritised waiting list to optimise capacity utilisation and  $\Delta$ NTCP gain* – Eva Negenman, Holland PTC / Erasmus MC.
- *The development of DL-based NTCP models for radiation pneumonitis prediction in advanced staged lung cancer* – Robert van der Wal, UMCG.
- *Personalized Adaptive Fractionation to Reduce the Number of Treatment Fractions for Patients With Abdominal Lymph Node Oligometastases* – Erik van Lieshout, Erasmus MC.
- *Thermoradiotherapy optimization and evaluation considering uncertainties in thermal and dielectric tissue properties* – Timoteo Daniel Herrera, AUMC.

### 14:45 – Coffee break

### 15:15 – Fourth session (1:00)

- *Non-invasive mechanical ventilation to enhance efficacy and safety in cardiac radio ablation for ventricular tachycardia* – Irma van Dijk, AUMC.
- *Is supplemental oxygen necessary during non-invasive mechanical ventilation for breathing management?* – Myrthe Bosse, AUMC.
- *A novel moving phantom insert for image quality assessment in MRI* – Frédérique van Gameren, UMCU.
- *A Simulation Free, CT-Free Workflow For Palliative Care: FAST-METS 2.0* – Ashaya Jaglal, AUMC.

### 16:15 – Closure with drinks