Learning from Every Patient

6-10 May 2022
Onsite in Copenhagen & Online
<table>
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<tr>
<th>Time</th>
<th>Session</th>
<th>Room</th>
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<tr>
<td>08:30-10:00</td>
<td>PHYSICS PRE-MEETING COURSE</td>
<td>Auditorium 12</td>
<td>Room D3</td>
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<tr>
<td></td>
<td>Real-world implementation of adaptive radiotherapy in clinical practice</td>
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<td></td>
<td>Course Directors: Wouter van Elmpt (NL), Claus Behrens (DK)</td>
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<tr>
<td>10:00-10:15</td>
<td>RTT PRE-MEETING COURSE</td>
<td>Room D1</td>
<td>Room D2</td>
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<td></td>
<td>Time to adapt: Future roles of RTT</td>
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<td></td>
<td>Course Directors: Yee-Mooi Toh (SG), Philip Scherer (AT)</td>
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<tr>
<td>10:15-12:00</td>
<td>RADIOBIOLOGY PRE-MEETING COURSE</td>
<td>Auditorium 11</td>
<td>Room D0</td>
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<td></td>
<td>Innovative models to assess efficacy and toxicity treatment combinations with radiotherapy</td>
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<td>Course Directors: Rob COPPERS (NL), François Peré (FR)</td>
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<tr>
<td>12:00-13:30</td>
<td>BRACHYTHERAPY PRE-MEETING COURSE</td>
<td>Room D5</td>
<td>Auditorium 15</td>
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<td></td>
<td>Multidisciplinary approach to high-risk skin cancer with special focus on brachytherapy</td>
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<td>Course Directors: Apoorv Varahrai (UK), Lucas Tagliaferri (IT)</td>
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<tr>
<td>13:30-14:30</td>
<td>CLINICAL PRE-MEETING COURSE</td>
<td>Mini-Oral Theatre 1</td>
<td>Room 20</td>
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<td>Integration of radiotherapy into targeted or immunotherapy</td>
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<td>Course Directors: Tim Illidge (UK), Eric Deutsch (FR)</td>
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<td>14:30-16:00</td>
<td>COUNTOURING WORKSHOP</td>
<td>Mini-Oral Theatre 2</td>
<td>Auditorium 11</td>
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<tr>
<td>16:00-18:00</td>
<td>LUNG REIRRADIATION</td>
<td>Poster Station 1</td>
<td>Room D1</td>
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<td>18:00-20:00</td>
<td>INTERDISCIPLINARY SESSION</td>
<td>Poster Station 2</td>
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<td>20:00-21:00</td>
<td>RADIATION ONCOLOGY SESSION</td>
<td>Auditorium 12</td>
<td>Room D3</td>
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<td>21:00-22:00</td>
<td>CLINICAL SESSION</td>
<td>Room D1</td>
<td>Room D2</td>
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<td>22:00-23:00</td>
<td>PHYSICS SESSION</td>
<td>Room D5</td>
<td>Auditorium 15</td>
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<td>23:00-00:00</td>
<td>RTT SESSION</td>
<td>Mini-Oral Theatre 1</td>
<td>Room 20</td>
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<td>00:00-01:00</td>
<td>BRACHYTHERAPY SESSION</td>
<td>Mini-Oral Theatre 2</td>
<td>Auditorium 11</td>
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<td>01:00-02:00</td>
<td>YESTRO SESSION</td>
<td>Poster Station 1</td>
<td>Room D1</td>
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<td>02:00-04:00</td>
<td>INTERDISCIPLINARY SESSION</td>
<td>Poster Station 2</td>
<td>Room D2</td>
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**OPENING CEREMONY**
Opening in Exhibition Area followed by Networking Evening

**LIVER LIVERMENOPHOSYS**
Liver Lymph Node SBRT

**LUNG REIRRADIATION**
Lung Reirradiation

**COUNTOURING WORKSHOP**
Liver Lymph Node SBRT

**COUNTOURING WORKSHOP**
Liver Lymph Node SBRT
SUNDAY 8 MAY 2022

08:00-08:40
TEACHING LECTURE
MR-guided radiotherapy: How to acquire and interpret imaging data for online adaptation
- Breast cancer related lymphoedema
- Fractionation and biology in bladder cancer
- Artificial intelligence and brachytherapy: Current reality and perspectives
- Robust treatment planning in particle therapy: Clinical implementation and potential pitfalls
- Essentials for risk management of a radiation oncology department
- Less is more: The increasing use of hypofractionation in routine clinical practice and its impact on patient care

08:45-10:00
SYMPOSIUM
- Radiation-induced cardiac and vascular toxicity
- Beyond the nucleus: The role of mitochondria in radiation response
- Image guidance in particle therapy: Status and outlook
- Personalised radiotherapy: Improving standards of care with personalised treatments

10:00-10:30
COFFEE BREAK

10:30-11:30
PROFFERED PAPERS
- MR-guided radiotherapy
- Tumour radiobiology
- Head & neck
- Lung
- Gynaecology
- Optimisation & algorithms in proton and ion radiotherapy
- Radiomics & modelling
- AI & advanced practice
- Intra-fraction motion management

11:40-12:40
HIGHLIGHTS OF PROFFERED PAPERS

12:45-14:15
LUNCH AND INDUSTRY SYMPOSIA

14:15-15:30
SYMPOSIUM
- Management of radio-recurrent prostate cancer
- The hypoxic tumour microenvironment
- Oligometastatic disease
- Advances in radiotherapy for lung cancer
- Ocicular plaque brachytherapy
- This house believes that in 10 years particle therapy will be in a better place than now
- Quantitative MRI for radiation oncology
- RTT's AI and digital awareness
- Implementation of new technology
- Head & neck
- Brachytherapy
- Urology 2
- Special RTT

15:30-16:00
COFFEE BREAK

16:00-16:25
HONORARY PHYSICIST AWARD

16:25-16:50
IRIDIUM AWARD LECTURE

16:55-17:55
PROFFERED PAPERS
- Patient-reported outcomes
- Microenvironment
- Oligometastatic disease
- Urology
- Prostate, head & neck, eye
- New technologies in clinical practice
- Application of functional & quantitative imaging
- Treatment plan optimisation & adaptation
- RTT treatment planning, OAR & target definitions
- Advances in patient care & treatment verifications
- Lung

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**SESSIONS**

- INTERDISCIPLINARY SESSION
- RADIOBIOLOGY SESSION
- CLINICAL SESSION
- PHYSICS SESSION
- RTT SESSION
- BRACHYTHERAPY SESSION
- YESTRO SESSION
MONDAY 9 MAY 2022

08:00-08:40
TEACHING LECTURE
Biomarkers guiding dose de-escalation in HNSCC
Immobilisation in the rapidly changing world of radiotherapy: Now and into the future
Modern imaging in radiation oncology
MRI: From basic to state-of-the-art acquisition protocols
Rationale for microbe-centered interventions in I-O and radiotherapy workflow
Leadership is a journey, not a position
08:45-10:00
SYMPOSIUM
New era of personalised radiotherapy in soft tissue sarcomas
Online adaptive radiotherapy: The future is here
This house believes that proton therapy is the standard of care for paediatric patients, adolescents and young adults requiring radiotherapy
Online management of target motion
Automation in radiotherapy
Deep learning for target auto-segmentation
The positive impact of good leadership
10:00-10:30
COFFEE BREAK
10:30-11:30
PROFFERED PAPERS
Pelvic malignancies
Adaptive radiotherapy
Paediatrics
Novel approaches towards IGRT
Big data, AI
Deep learning for image analysis
Speed Dating
Applications of photon & ion beam therapy
Breast
Dosimetry
Head & neck
11:40-12:40
HIGHLIGHTS OF PROFFERED PAPERS
12:45-14:15
LUNCH AND INDUSTRY SYMPOSIA
14:15-15:30
DEBATE
This house believes that an intensive follow up for high-risk breast cancer patients should be considered
Twists and turns of brain irradiation
Adapting to changes on different time scales
Lethal DNA double strand breaks production: Quality over quantity?
Challenging the traditional margins for microscopic diseases
Mobility for radiation oncology professionals
Radiomics & modelling
AI, big data, automation
Implementation of new technology & techniques
Gynaecology
15:30-16:00
COFFEE BREAK
16:00-16:25
K. BREUR AWARD LECTURE
16:25-16:40
DONAL HOLLYWOOD AWARD
16:45-17:45
PROFFERED PAPERS
Breast
Dosimetry & treatment planning
CNS
Inter-fraction motion & adaptive radiotherapy
Health economics
Multicentre validation studies
Young Investigator Award
18:00-19:00
GENERAL ASSEMBLY
19:00-21:00
RECEPTION
**TUESDAY 10 MAY 2022**

**08:30-09:10**

**TEACHING LECTURE**
- **Room D4**
  - Hypofractionation for the management of postoperative PCa

**TEACHING LECTURE**
- **Room D5**
  - Calculating margins correctly: Abacalabala with numbers?

**TEACHING LECTURE**
- **Auditorium 12**
  - Is endometrial cancer ready for treatment individualisation based on molecular risk factors?

**TEACHING LECTURE**
- **Room D1**
  - How can omics lead to personalised radiation oncology?

**TEACHING LECTURE**
- **Auditorium 11**
  - Deformable registration for dose accumulation: Current status and future challenges

**TEACHING LECTURE**
- **Room D2**
  - Immunotherapy and radiotherapy: Basics for physicists

**TEACHING LECTURE**
- **Mini-Oral Theatre 1**
  - Toxicity vs tumour control: What makes a good pelvic radiotherapy plan?

**TEACHING LECTURE**
- **Room 20**
  - Is endometrial cancer ready for treatment individualisation based on molecular risk factors?

**09:15-10:30**

**SYMPOSIUM**
- **Panel Discussion**
  - **JOINT SYMPOSIUM ESTRO-ESGO**
    - Fractionation for external beam radiation therapy in early breast cancer: State-of-the-art
  - **JOINT SYMPOSIUM ESTRO-ESR**
    - Artificial intelligence: friend or foe of the RTT?
  - **SYMPOSIUM**
    - **SYMPOSIUM**
      - Imaging biomarkers for personalised radiotherapy
      - Medical physicists should be directly involved in the design, execution and interpretation of clinical trials
      - Modeling of complex systems and interactions

**08:50-09:10**

**DEBATE**
- **This house believes that short-course radiotherapy is the ideal schedule as part of total neoadjuvant therapy programs for rectal cancer**

**09:15-10:30**

**SYMPOSIUM**
- **SYMPHOSIUM**
  - Changing the radiation medicine paradigm
  - HPV-related squamous cell carcinoma: is it time for de-intensification?

**SYMPOSIUM**
- **SYMPOSIUM**
  - Adaptation and automation: The new frontier in radiotherapy
  - Spatial and spatio-temporal fractionation

**SYMPOSIUM**
- **SYMPOSIUM**
  - Modelling at the voxel level! Dose and image-data mining
  - Changes in disease pattern after the pandemic

**10:30-11:00**

**COFFEE BREAK**

**11:00-12:15**

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**12:20-13:25**

**CLOSING SESSION**
- **Closing remarks**

**INTERDISCIPLINARY SESSION**
- **RADIOBIOLOGY SESSION**
- **CLINICAL SESSION**
- **PHYSICS SESSION**
- **RTT SESSION**
- **BRACHYTHERAPY SESSION**
- **YESTRO SESSION**

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