



**ESTRO**  
2024

# Scientific report

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## Radiation Oncology: Bridging the Care Gap

3-7 May 2024

Glasgow, UK

ANNUAL  
ESTRO  
CONGRESS



[WWW.ESTRO.ORG](http://WWW.ESTRO.ORG)

# I. Focus groups

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## 1. Breast

Highlights on breast cancer  
<https://bit.ly/4fXljw3>

## 2. CNS

- ESTRO-EANO - Methods for SRS and SRT of brain metastases and optimal assessment strategies of neurocognitive function  
<https://bit.ly/4bUO2zy>
- CNS on the rise: new indications, targets and synergies  
<https://bit.ly/4cncMSi>

## 3. Dosimetry & QA

- Dosimetry and quality assurance in brachytherapy  
<https://bit.ly/3W7GvZE>
- Dosimetry highlights  
<https://bit.ly/3WhaZam>
- Dose accumulation for patient treatment  
<https://bit.ly/4d2ty9m>
- Debate: This house believes that AI will do dosimetry for us and there is no longer any need to train in it  
<https://bit.ly/4d2ty9m> (scroll down)

## 4. FLASH

- Advancing FLASH radiotherapy: From research breakthroughs to clinical integration  
<https://bit.ly/46b8s6p>
- Multidisciplinary and physics highlights in FLASH  
<https://bit.ly/46b8s6p> (scroll down)

## 5. Gastrointestinal

### Lower GI

- Lower GI proffered papers  
<https://bit.ly/3LAredY>
- Multi-disciplinary management of anal cancer  
<https://bit.ly/3LaywEQ>
- The rectal cancer journey  
<https://bit.ly/3WRsiiC>
- Research in all forms in gastrointestinal cancer – the UGI and LGI poster discussion session  
<https://bit.ly/3zS6XOg>
- Advancements in rectal cancer treatment – Highlights from the Lower GI proffered papers session  
<https://bit.ly/4dbhFh0>

## Upper GI

Embracing an increase of research motion in upper gastrointestinal radiotherapy – a reader's digest  
<https://bit.ly/46XI9ks>

## 6. Gynaecological

- European Society of Gynaecological Oncology (ESGO) and ESTRO session on – Bridging the care cap: radiotherapy in elderly and frail gynaecological cancer patients  
<https://bit.ly/3xYT8gg>
- Breakthroughs in gynaecological cancer treatment: highlights on trials <https://bit.ly/3yHuxNo>
- AI-driven advances in gynaecological cancer: towards fully automated intra-uterine brachytherapy  
<https://bit.ly/4eRN3Tz>

## 7. Head & Neck

Technical aspects of head-and-neck cancer radiotherapy  
<https://bit.ly/4cd2LHi>

## 8. Lung

- ESTRO-IASLC joint symposium: To escalate or to de-escalate radiation dose in stage 3 NSCLC?  
<https://bit.ly/3SFzayz>

- Lung proffered papers  
<https://bit.ly/4eUlsBf>
- Focus on thoracic re-irradiation  
<https://bit.ly/3W7GvZE>
- Targeting serine/glycine metabolism improves radiotherapy responses in non-small cell lung cancer  
<https://bit.ly/3xVZY6c>
- Debate: This house believes that abdominal compression is no longer a suitable motion management strategy, considering patient comfort and clinical benefit  
<https://bit.ly/45Y6buZ>
- Is radiotherapy playing a decreasing role in the treatment of operable NSCLC?  
*Multidisciplinary tumour board session*  
<https://bit.ly/3KWqob7>
- Innovations in lung cancer radiotherapy  
<https://bit.ly/3zS04wu>
- Session highlights on irradiation volume and SBRT optimisation  
<https://bit.ly/3zS04wu>

## 9. Positioning and Immobilisation

- From reproducibility to optimisation: defining the roles of radiation therapists in online ART  
<https://bit.ly/3WfuRL7>

- Image guidance in radiotherapy: should we break bonds with daily kV imaging?  
<https://bit.ly/4eV6VFt>
- Upright radiotherapy: hope or hype?  
<https://bit.ly/4bOvCRf>

## 10. SBRT

- SBRT and radiobiology  
<https://bit.ly/3y504ss>
- SBRT in oligometastatic colorectal cancer  
<https://bit.ly/4f87Wku>
- SBRT in prostate cancer  
<https://bit.ly/3X6vU1A>
- Is SBRT the standard-of-care for spine metastases?  
[ESTRO - About ESTRO](https://bit.ly/3Vmsoy8)

## 11. Skin and soft tissue

Advances in skin cancer and soft-tissue sarcoma treatment  
<https://bit.ly/3Vmsoy8>

## 12. Systemic therapy and RT

Medication with radiotherapy  
<https://bit.ly/3VmSuSZ>

## 13. Urology

- Combining salvage SBRT and hypofractionated postoperative radiotherapy for prostate cancer  
<https://bit.ly/459BimR>
- STORMing progress  
Optimal treatment strategies for pelvic nodal oligo-recurrence in prostate cancer: Insights from the STORM trial  
<https://bit.ly/3Sg1PKd>
- Delphi consensus on stereotactic ablative radiotherapy for oligo-metastatic and oligo-progressive renal cell carcinomas: an ESTRO oncology study endorsed by the European Association of Urology (EAU)  
<https://bit.ly/3VT087C>
- TRAP trial: finding the “sweet spot” for the addition of SBRT to androgen receptor pathway inhibitor treatment in mCRPC patients  
<https://bit.ly/3VandkD>
- Adjuvant radiotherapy in the management of pathological high-risk muscle-invasive bladder cancer: what role does it have in the immunotherapy era?  
<https://bit.ly/3Vlewzz>
- Acute toxicity in the PACE-C trial, which compares stereotactic body radiotherapy with moderate hypofractionation  
<https://rebrand.ly/hz0yswy>

- SBRT in combination with short-term ADT improves outcomes in oligorecurrent hormone-sensitive prostate cancer: The phase II RADIOSA trial  
<https://bit.ly/3VOprqp>
- Focal boost SBRT in men with intermediate- and high-risk PCa: five-year results of the hypo-FLAME trial  
<https://bit.ly/4dts3Bh>

# II. Track reports

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## 1. Brachytherapy

- Brachytherapy AI innovations  
<https://bit.ly/4fvHBWI>
- Prostate interventional radiotherapy/brachytherapy  
<https://bit.ly/4bFtgnF>
- Brachytherapy for gynaecological cancers  
<https://rebrand.ly/3rdwdx>
- Brachytherapy physics  
<https://bit.ly/3RkKf5F>
- Brachytherapy and interventional radiotherapy  
<https://bit.ly/3SwDoZd>

## 2. Physics

- Voxel-based analyses are consistent with conventional dose-volume results and avoid common dose-volume limitations  
<https://bit.ly/4fYMtUt>
- MLC tracking and dose accumulation validation on the MR-Linac using a real-time deformable dosimeter  
<https://bit.ly/4bUQJJa>

- Deep-learning-based modelling of radiation dose deposition in a 1.5T MR-Linac  
<https://bit.ly/3VY5te1>
- Histology-to-CT transfer for HNC target volume auto-segmentation with deep-learning diffusion models  
<https://bit.ly/3XWyDLK>
- Continuous motion modelling for enhanced deformable image registration in radiotherapy  
<https://bit.ly/3LbkBhJ>

## 3. RTT

- Artificial Intelligence in radiotherapy practice  
<https://bit.ly/4cUezxR>
- Advanced practice in radiotherapy  
<https://bit.ly/3Wfzuot>
- Online adaptive radiotherapy: Skills and knowledge for RTTs Pre-meeting Course  
<https://bit.ly/4e6zMFL>
- Patient experience and quality of life: proffered papers session  
<https://bit.ly/3WwdANJ>

- RTT Committee's *Meet & Greet*  
<https://bit.ly/3WeZ6mP>

<https://bit.ly/3RRHQ4s>

- Biological advances: Key sessions  
<https://bit.ly/3RBLxej>

## 4. Radiobiology

- Radio-metabolomics: How does radiotherapy affect cancer cell metabolism, and vice versa?  
*Pre-meeting course*

## 5. Young

Young professional's perspectives  
<https://bit.ly/3Y7cH0K>  
[ESTRO - About ESTRO](#)

NB: The clinical track is covered in the previous section, within the various reports of the focus groups section.

# III. AWARDS

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## BEST PAPERS

### 1. Interdisciplinary

Shared decision-making in radiotherapy: patients' needs and experiences

*Anniek Rosalie van Hienen*

<https://bit.ly/3RjcTpt>

### 2. Clinical

Organ preservation in rectal cancer: Results from the GRECCAR12 randomised phase 3 trial

*Véronique Vendrely*

<https://bit.ly/3VsWfGu>

### 3. Physics

Generating synthetic computed tomography for radiotherapy: a look at the SynthRAD2023 challenge

*Matteo Maspero*

<https://bit.ly/3yfGdGT>

### 4. Brachytherapy

Five-year results of the Very Accelerated Partial Breast Irradiation VAPBI phase I-II GEC-ESTRO trial

*José Luis Guinot*

<https://bit.ly/4cvjZiR>

### 5. RTT

Does intra-fraction motion of pelvic lymph nodes depend on localisation in online MR-guided RT?

*Mylène V. Noordeloos*

<https://bit.ly/4bVZ1JC>

### 6. Radiobiology

Targeting serine/glycine metabolism with the repurposed drug sertraline: Impact on cancer cells and the tumour microenvironment

*Anaís Sánchez Castillo*

<https://bit.ly/4ctPU3u>



## JOURNAL AWARDS

### 1. *CtRO* Young Researcher Award

Register data support the long-term safety of the use of ultra-hypofractionated radiotherapy for localised prostate cancer previously seen in the phase 3 trial HYPO-RT-PC

*Astrid Persson*

<https://bit.ly/4cO7RcH>

### 2. *PhiRO* Young Researcher Award

Partial adaptation for online-adaptive proton therapy triggered by prompt gamma imaging

*Virginia Gambetta*

<https://rebrand.ly/d8pobes>

### 3. *TipsRO* Young Researcher Award

Early experience with GTV boost for prostate cancer: comparison of MR-Linac and HDR brachytherapy

*Amanda Moreira*

<https://bit.ly/4bVZ1JC>

## COMPANY AWARDS

### 1. ESTRO-ELEKTA Brachytherapy Award

Time-resolved analysis of clinical dose metrics for HDR brachytherapy error detection

*Teun van Wagenberg*

<https://rebrand.ly/Elekta>

### 2. GEC-ESTRO Best Junior Presentation – sponsored by Elekta

Preservation of visual acuity after eye-sparing ruthenium-106 brachytherapy in choroidal melanoma patients

*Lennart Pors*

<https://rb.gy/mmq6vi>