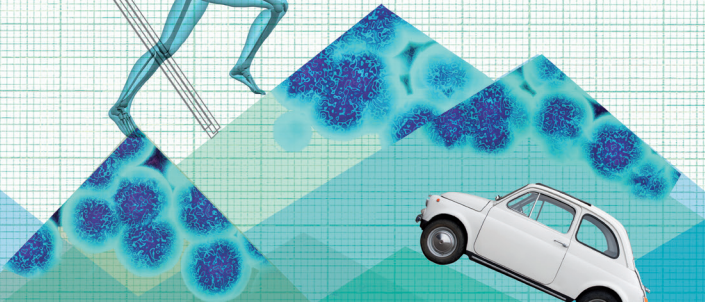
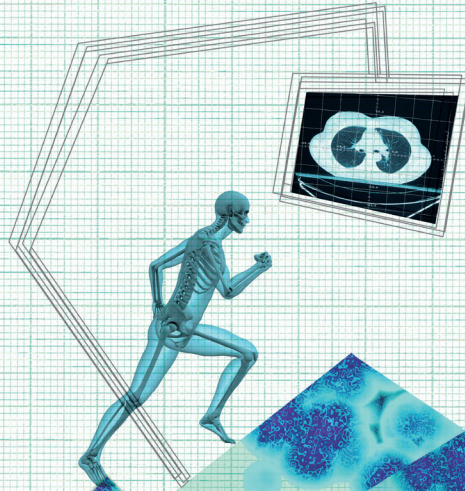
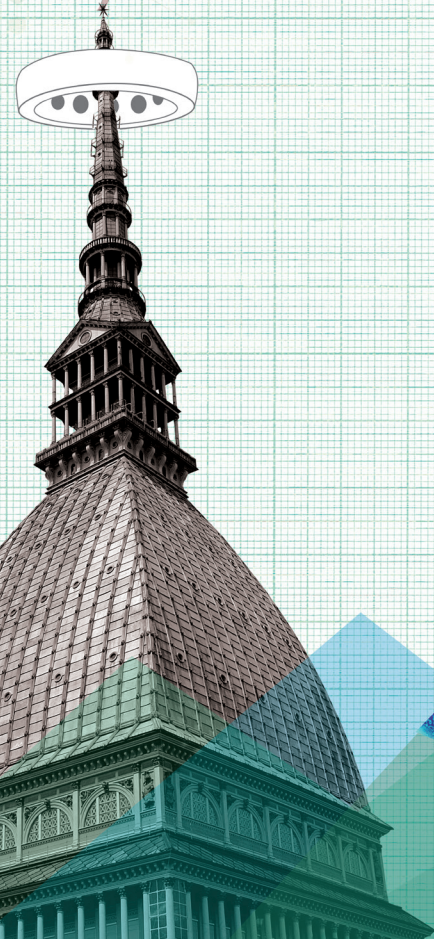


ESTRO
35

29 April - 3 May 2016
Turin, Italy

PROGRAMME BOOK &
EXHIBITION GUIDE



WWW.ESTRO.ORG

 ESTRO



29 April - 3 May 2016

Turin, Italy

ESTRO

European Society for Radiotherapy & Oncology

Rue Martin V, 40

1200 Brussels

Belgium

WWW.ESTRO.ORG

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WELCOME LETTER

“

It is our privilege and great pleasure to invite you to ESTRO 35 that will take place from 29 April to 3 May 2016 in Turin, Italy.



Philip Poortmans
ESTRO 35 Chair

ESTRO is an interdisciplinary society where radiation oncologists, medical physicists, biologists, brachytherapists and radiation therapists aspire to join forces with other organisations in the oncology field that share ESTRO's vision of excellence in cancer treatment. At ESTRO 35, we draw attention to the multidisciplinary and interdisciplinary components of our practice, with emphasis on the new opportunities that they represent for all professionals of oncology, not only in research but also in the daily care of patients.

The interdisciplinary component of the scientific programme will include sessions on the following topics:



Yolande Lievens
ESTRO 35 SPC Chair

- Advisory Committee on Radiation Oncology Practice (ACROP)
- Adaptive radiotherapy for coping with anatomical variations: hope or hype?
- Combining radiotherapy with molecular targeted agents: learning from successes and failures
- Communication with patients
- Dose painting: those pending issues
- In room adaptive imaging with a focus on MRI
- MR-PET
- Hot topics in SABR: time for randomised clinical trials?
- Modern ART based on functional / biological imaging
- Moving away from 2 Gray: are we ready for a paradigm shift?
- New concepts of tumour radioresistance



Ben Heijmen
ESTRO 35 SPC Chair

- Protons or heavy ions?
- QA in clinical trials: processes, impact and future perspectives
- Quality beyond accuracy: are we failing to see the forest for the trees?
- Radiomics - the future of radiotherapy?
- Secondary cancer after radiotherapy: from cancer registries to clinical implications
- Selection of patients for proton therapy
- Standardisation in clinical practice
- Time is not on our side: cardiovascular toxicity after radiotherapy
- Towards Personalised Radiation Oncology (PRO)
- Uncovering the gap between optimal and actual utilisation of radiotherapy in Europe

The multidisciplinary component of our profession will be highlighted in several joint sessions with other European and International oncology societies. The Scientific Programme Committee and Scientific Advisory Groups of ESTRO 35 are hard at work to develop the multidisciplinary component of the scientific programme.

The educational aspects of ESTRO 35 will include pre-meeting courses, contouring workshops and multidisciplinary tumour board sessions.

As in previous conferences, ESTRO 35 will offer a Young Scientists Track. This track is fully organised by our young members and it enables them to meet young colleagues, share common interests, network and start to build their own collaborative projects at an international level.

Last but not least, the ESTRO annual meeting has developed into a successful scientific event due to high level contributions via abstract submissions. The Scientific Programme Committee is committed to offering large visibility to promising abstracts by including them in the scientific symposia or via dedicated poster viewing sessions.

All of the leading exhibitors will contribute to ESTRO 35, Europe's largest industrial exhibition in radiation oncology, offering the opportunity to view the latest products and services in cancer treatment and cancer care.

We look forward to welcoming you in Turin.

With warm regards,

Philip Poortmans
ESTRO 35 Chair

Yolande Lievens
ESTRO 35 SPC Chair

Ben Heijmen
ESTRO 35 SPC Chair

”

SCIENTIFIC & ORGANISING COMMITTEES

◆ ESTRO 35

Chair of the Congress: P. Poortmans (NL)

◆ ESTRO 35 SCIENTIFIC PROGRAMME COMMITTEE (SPC)

Chairs: Y. Lievens (BE), B. Heijmen (NL)

M. Baumann (DE), J-E Bibault (FR), A. Boejen (DK), A. Chalmers (UK), C. Fiorino (IT), D. Georg (AT), J. Kazmierska (PL), J.C. Lindegaard (DK), C. Marijnen (NL), M. Mast (NL), L. Muren (DK), U. Ricardi (IT), M. Stasi (IT), V. Valentini (IT), W. van Elmpt (NL), C. Vens (NL), D. Zips (DE).

◆ SCIENTIFIC ADVISORY GROUP (SAG) OF YOUNG ESTRO MEMBERS

Chairs: J-E Bibault (FR), W. van Elmpt (NL)

P. Blanchard (FR), P. Mancosu (IT), R. Mazon (FR), L. Mullaney (IE), O. Person (IL), K. Rouschop (NL), M. Schmid (AT), T. Schuffenhauer (DE), E. Sterpin (BE).

◆ SCIENTIFIC ADVISORY GROUP (SAG) FOR CLINICAL RADIOTHERAPY

Chair: Y. Lievens (BE)

I. Barillot (FR), A. Bossi (FR), J. Bourhis (CH), K. Bujko (PL), N. Burnet (UK), C. Faivre-Finn (UK), K. Haustermans (BE), M. Hoyer (DK), J. Kazmierska (PL), A. Kirby (UK), P. Lara (ES), C. Marijnen (NL), A.H. Ree (NO), V. Valentini (IT), D. Zips (DE).

◆ SCIENTIFIC ADVISORY GROUP (SAG) FOR BRACHY THERAPY

Chair: J.C. Lindegaard (DK)

D. Baltas (DE), P. Hoskin (UK), C. Kirisits (AT), R. Nout (NL), P. Papagiannis (GR), B. Pieters (NL), C. Polgár (HU), J. Skowronek (PL), K. Tanderup (DK).

◆ SCIENTIFIC ADVISORY GROUP (SAG) FOR RADIATION PHYSICS

Chair: B. Heijmen (NL)

M. Aznar (DK), C. Clark (UK), M. do Carmo Lopes (PT), C. Fiorino (IT), D. Georg (AT), N. Jornet (ES), B. McClean (IE), G. Meijer (NL), L. Muren (DK), U. Oelfke (UK), M. Schwarz (IT), K. Tanderup (DK), D. Thorwarth (DE), U. van der Heide (NL), P. van Luijk (NL), D. Verellen (BE).

◆ SCIENTIFIC ADVISORY GROUP (SAG) FOR RADIOBIOLOGY

Chair: C. Vens (NL)

J. Alsner (DK), A. Chalmers (UK), R. Coppes (NL), N. Cordes (DE), A. Kiltie (UK), H. Lyng (NO), F. Paris (FR), R. Syljuåsen (NO), P. Tsoutsou (GR), M.C. Vozenin (CH), B. Wouters (CA).

◆ SCIENTIFIC ADVISORY GROUP (SAG) FOR RADIATION TECHNOLOGY

Chair: A. Boejen (DK)

B. Bak (PL), E. Bloemen-van Gurp (NL), M. Coffey (IE), M. Leech (IE), M. Mast (NL), F. Moura (PT), A. Osztavics (AT), D. Pasini (IT), P. Scherer (AT), B. Speleers (BE), A. Vaandering (BE).

◆ SCIENTIFIC ADVISORY GROUP (SAG) FOR RANDOMISED TRIALS

Chairs: Y. Lievens (BE), D. Zips (DE)

W. Budach (DE), E. Deutsch (FR), V. Grégoire (BE), J. Johansen (DK), P. Maingon (FR), C. Nutting (UK), H. Schmidberger (DE), M. Verheij (NL).

◆ NATIONAL ORGANISING COMMITTEE

Chairs: U. Ricardi, Turin; M. Stasi, Turin

F. Alongi, Negrar; L. Begnozzi, Rome; G. Biti, Florence; S. Clemente, Naples; R. Corvó, Genoa; C. Fiandra, Turin; C. Fiorino, Milan; M. Iori, Reggio Emilia; L. Livi, Florence; S. Magrini, Brescia; R. Orecchia, Milan; D. Pasini, Rome; N. Romeo, Taormina; E. Russi, Cuneo; V. Valentini, Rome.

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Skowronek, J. (PL), Slosarek, K. (PL), Slotman, B. (NL), Smeenk, R.J. (NL), Sobotta, B. (DE), Söhn, M. (DE), Sonke, J. (NL), Sonveaux, P. (BE), Specht, L. (DK), Speleers, B. (BE), Stasi, M. (IT), Sterpin, E. (BE), Stevanovic, J. (RS), Stock, M. (AT), Strnad, V. (DE), Stroom, J. (PT), Sun Myint, A. (UK), Sundaresan, P. (AU), Suwinski, R. (PL), Syljuasen, R. (NO), Tan, LiTee (UK), Tanderup, K. (DK), Thörnqvist, S. (NO), Thorwarth, D. (DE), Timmermann, B. (DE), Tomé, W. (US), Torresin, A. (IT), Troost, E. (DE), Tsoutsou, P. (CH), Vaandering, A. (BE), Valdagni, R. (IT), Valentini, V. (IT), van der Heide, U. (NL), van der Linden, Y. (NL), van Elmpt, W. (NL), van Herk, M. (UK), Van Loon, J. (NL), van Luijk, P. (NL), van Vulpen, M. (NL), Vanderstraeten, B. (BE), Veness, M. (AU), Vens, C. (NL), Verellen, D. (BE), Verhaegen, F. (NL), Verheij, M. (NL), Vestergaard, A. (DK), Vogelius, I.R. (DK), Vordermark, D. (DE), Vozenin, M. (CH), Werner, R. (DE), West, C. (UK), Widesott, L. (IT), Wiegel, T. (DE), Witte, M. (NL), Wouters, B. (CA), Yahalom, J. (US), Zapatero, A. (ES), Ziegenhein, P. (UK), Zilli, T. (CH), Zips, D. (DE), Zubizarreta, E.H. (UY).

ABOUT ESTRO

◆ ESTRO VISION 2020

Every cancer patient in Europe will have access to state of the art radiation therapy, as part of a multidisciplinary approach where treatment is individualised for the specific patient's cancer, taking account of the patient's personal circumstances.

◆ ESTRO MISSION

Founded in 1980, ESTRO is a non-profit scientific organisation whose role is to foster, in all its aspects, radiation oncology, clinical oncology and related subjects, including physics as applied to radiotherapy, radiation technology and radiobiology.

To fulfill its purpose, ESTRO promotes education, science, research and access to radiotherapy through its teaching courses, workshops, meetings, publications and public affairs activities.

◆ ESTRO SCHOOL

The ESTRO School has become an internationally recognised provider of high-quality education in radiotherapy and oncology and has developed a wide array of educational activities:

- Live teaching courses covering basic and continuing medical educational needs of all professionals working in the field of (radiation) oncology
- Pre-meeting teaching courses, workshops, teaching lectures and tumour boards during congresses
- Live and online workshops courses with FALCON (Fellowship in Anatomic deLineation and CONtouring), the online delineation tool
- Hands-on experience through mobility grants programme.

The ESTRO School promotes multidisciplinary education in oncology, basic science, physics and technology, imaging, and interdisciplinary oncology, with the objective of standardising knowledge and clinical practice, whilst recognising the diversity of radiation oncology practice in different parts of the world.

In 2016, the ESTRO School is organising 36 live courses (29 in Europe and 7 outside Europe) and two undergraduate courses.

More information on the 2016 course programme on www.estro.org.

◆ ESTRO CONFERENCES

ESTRO next annual conference:

ESTRO 36

5-9 May 2017 | Vienna, Austria

ESTRO 36 will focus on the latest data in clinical oncology, radiation physics, radiation technology and patient's care, brachytherapy and radiobiology, all contributing to the ultimate goal: a better patients' outcome.

◆ ESTRO MEMBERSHIP

ESTRO is devoted to advancing the goals of radiation oncology. This includes providing its members with a host of advantages such as outstanding science and education, in order to support them in their career advancement:

- Online subscription to *Radiotherapy & Oncology*
- Reduced fees for attending ESTRO conferences or teaching courses
- Online access to scientific material through the e-library (DOVE)
- Eligibility for grants, awards, faculties and governance positions.

ESTRO members are professionals of radiation oncology and beyond: radiation oncologists, clinical oncologists, medical physicists, radiobiologists, radiation therapists (RTTs), dosimetrists, radiotherapy nurses, medical oncologists, surgeons, industry representatives, organ specialists, other medical and non medical professions, coming from more than 100 countries spread all over the world.

2016 membership is available on the ESTRO website and at the ESTRO booth during ESTRO 35, booth # 3000, in the exhibition hall.

More information on www.estro.org.

◆ RADIO THERAPY AND ONCOLOGY

ESTRO's official scientific journal, *Radiotherapy & Oncology*, also known as the *Green Journal*, publishes original research articles and review articles on all aspects of radiation oncology.

With a current impact factor of 4.363, *Radiotherapy & Oncology* is ranked 45th out of 211 oncology journals and 11th out of 125 radiology, nuclear medicine and imaging journals in the Journal Citation Reports.

Radiotherapy & Oncology is published monthly, in print and electronic formats.

GENERAL INFORMATION

◆ UPDATED INFORMATION

Please consult the ESTRO website on a regular basis for updated information on ESTRO 35.

◆ VENUE

Lingotto Fiere
Via Nizza, 294
10126 Turin, Italy
www.lingottofiere.it

◆ ACCOMMODATION

Ventana Group is the official accommodation agent for ESTRO 35 and will operate an accommodation desk in the registration area on:

Thursday 28 April	16:00 – 18:00
Friday 29 April	09:00 – 17:00
Saturday 30 April	09:00 – 17:00
Sunday 1 May	09:00 – 17:00
Monday 2 May	09:00 – 17:00
Tuesday 3 May	09:00 – 12:00

◆ CME ACCREDITATION

ESTRO 35 is accredited by the European Accreditation Council for Continuing Medical Education (EACCME) to provide the following CME activity for medical specialists. The EACCME is an institution of the European Union of Medical Specialists (UEMS), www.uems.net.

ESTRO 35 is designated for a maximum of (or 'for up to') 21 hours of European external CME credits. Each medical specialist should claim only those hours of credit that he/she actually spent in the educational activity.

Through an agreement between the European Union of Medical Specialists and the American Medical Association, physicians may convert EACCME credits to an equivalent number of AMA PRA Category 1 Credits™. Information on the process to convert EACCME credit to AMA credit can be found at www.ama-assn.org/go/internationalcme.

Live educational activities, occurring outside of Canada, recognised by the UEMS-EACCME for ECMEC credits are deemed to be Accredited Group Learning Activities (Section 1) as defined by the Maintenance of Certification Program of The Royal College of Physicians and Surgeons of Canada.

Select pre-meeting courses have been designated for a maximum of (or 'for up to') 6 hours of European external CME credits.

The course 'Multidimensional dosimetry systems' has been accredited by the European Federation of Organisations for Medical Physics (EFOMP), as a CPD event for medical physicists.

◆ ASSEMBLIES

- The GEC-ESTRO Assembly will be held on Saturday 30 April from 13:30 – 14:30 in room Madrid
- The Physics Assembly will be held on Monday 2 May from 13:30 – 14:30 in room Madrid
- RTT Meet and Greet will take place on Monday 2 from 13.30 - 14.30 in room Parigi
- All ESTRO members are invited to attend the General Assembly on Monday 2 May at 17:45 in room 2.

◆ BADGES

Upon registration you will receive a personal name badge. Participants are kindly requested to wear this badge when attending scientific sessions and/or social events.

◆ CERTIFICATES

Certificates of attendance will be issued as of Monday 2 May through the designated stations in the registration area. Certificates of attendance can also be downloaded online until three months after the event.

◆ CURRENCY

The currency in Italy is the euro (EUR).

◆ E-POSTERS

Electronic poster stations will allow you to view the virtual displays at your leisure and to correspond with presenters or forward a presentation to a colleague or home office. A selection of the best posters will also be displayed in the poster area during the whole congress.

◆ ESTRO CANCER CENTRES PAVILION

The ESTRO Cancer Centres Pavilion will gather institutes in the exhibition area that will welcome attendees on dedicated booths in order to exchange information about science, projects and collaborations as well as job opportunities and mutual interests. Entrance to ESTRO Cancer Centres Pavilion is free to all the ESTRO 35 participants and is open from 29 April to 2 May during the exhibition opening times.

◆ ESTRO SCHOOL SYMPOSIUM

All participants are invited to the ESTRO School Symposium on Sunday 1 May at 16:15, in the Istanbul room. It will be followed by a reception at 17:15.

◆ EXHIBITION

An exhibition featuring equipment and medical publishers will be held in the exhibition area. The opening of the exhibition will be on Friday 29 April around 19:15. The exhibition will remain open from Friday 30 April to Monday 2 May from 9:30 to 17:00. Entrance is free for all registered participants.

◆ INFORMATION FOR ABSTRACT AUTHORS

ESTRO 35 abstracts were selected for the following types of presentations.

Oral communication

Abstract is presented in one of the proffered papers sessions.

Poster viewing

Posters selected for the poster viewing sessions will be highlighted in the conference final programme and will be displayed in a central section of the poster area.

Posters on a similar topic will be grouped together. The presenting authors of the selected posters in the group will visit all the posters within each group, along with the audience. At each poster, the presenting author will present his/her poster in five minutes, and then there will be three minutes for discussion, which will be led by two chairpersons for the group.

Poster

Authors are required to display a poster on the designated poster panel. Posters are grouped by topic. Poster mounting time:

- Posters can be mounted as of 16:00 on Thursday 28 April 2016 or anytime after that.
- Poster removal time: Posters should be removed by Tuesday 3 May 2016 before 13:00.

Any posters remaining after that time will be discarded. Authors are requested to be present next to their poster during the poster reception which will be held on **Saturday 30 April 2016 as of 18:30**. It will also be indicated in the official schedule, that posters can be viewed during lunch time on Sunday 1 May and Monday 2 May 2016.

E-poster

Authors upload an electronic poster in the ESTRO system. E-posters will be available for viewing in special stations available at the conference venue, anytime during the conference. There is no designated time slot for viewing. Participants will be able to view all electronic posters as frequently, and as often as they wish.

In the abstract book

Oral Communication abstracts are designated with OC + number.

Poster Viewing abstracts are designated with PV + number.

Posters are designated with PO + number.

Electronic Posters are designated with EP + number.

◆ **INSURANCE**

The organiser does not accept liability for individual medical, travel or personal insurance. Participants are strongly advised to take out their own personal insurance policies.

◆ **LUNCHEONS AND REFRESHMENTS**

The registration fee for the conference includes coffee breaks to all participants and exhibitors wearing their conference badges. Lunch will be available for purchase in the exhibition area and is not included in the registration.

◆ **MEETING POINTS**

Special designated meeting points for each ESTRO discipline are located near the poster area.

◆ **OFFICIAL LANGUAGE**

The official language of the congress is English. No simultaneous translation will be provided.

◆ **OPENING CEREMONY AND WELCOME NETWORKING**

All participants and company delegates are invited to the official opening ceremony which will be held in the main auditorium on Friday 29 April at 18:00. The opening ceremony will be followed by the welcome networking which will take place in the exhibition area.

Opening remarks (18:00 – 18:15)

Philip Poortmans (NL), ESTRO President and ESTRO 35 Chair

Yolande Lievens (BE), Chair of Scientific Programme Committee of ESTRO 35

Ben Heijmen (NL), Chair of Scientific Programme Committee of ESTRO 35

Umberto Ricardi (IT), Chair of Local Organising Committee

Michele Stasi (IT), Chair of Local Organising Committee

Keynote lecture (18:15 – 18:45)

Christian Greco (IT), Keynote speaker

A dialogue between Egyptology and Science: Archaeometry as a tool, Research as an end

◆ SATELLITE SYMPOSIA

Commercial satellite symposia will be held during lunch breaks. Please refer to the “Satellite Symposium” section of this book for additional information.

◆ SMOKING

There will be a strict non-smoking policy within all areas of the conference facilities.

◆ SOCIAL ACTIVITIES

Friday 29 April 2016

All registered participants and all company delegates are invited to the welcome reception which will take place in the exhibition area around 19:15.

Saturday 30 April 2016

All participants and company delegates are invited to the poster reception and poster awards, which will be held in the poster area at 18:30. Canapés and drinks will be served while participants view approximately 500 of the best posters. During the reception, three ESTRO awards of 1,000€ each will be handed out to the best scored posters.

Sunday 1 May 2016

2nd Super Run

The Super Run will start at 19.00 from the roof on top of Lingotto Fiere.

The registration pack can be picked up at the ESTRO booth #3000 in the exhibition area.

Monday 2 May 2016

All participants are invited to the special after dinner evening which will take place in an exclusive venue in Turin. Additional tickets for this event are available for purchase at 80€ + VAT per person.

◆ SPEAKER PREVIEW

The Speaker Preview Room is located in the main congress area. Speakers are requested to bring their PowerPoint presentations to the Speaker Preview Room at least three hours prior to the start of the session or the day before if the session is planned in the early morning.

Opening hours

Thursday 28 April	>	16:00-18:00
Friday 29 April	>	07:30-18:00
Saturday 30 April	>	07:00-18:00
Sunday 1 May	>	07:00-18:00
Monday 2 May	>	07:00-18:00
Tuesday 3 May	>	07.30-12:00

◆ WIFI

Wireless internet will be in all meeting rooms.

ACKNOWLEDGEMENTS

ESTRO would like to extend a special thank you to the Chair of ESTRO 35, Philip Poortmans and to the Chairs of the Scientific Programme Committee, Yolande Lievens and Ben Heijmen for having accepted the responsibility to develop the scientific programme.

Thank you to the National Organising Committee Chairs, Umberto Ricardi and Michele Stasi for having gracefully accepted to host ESTRO 35.

Special thanks go to all the members of the scientific advisory groups, national organising committee members as well as the abstract reviewers for their valuable contribution to this congress.

◆ ESTRO WELCOMES AS SPECIAL GUESTS:

AAPM	American Association of Physicists in Medicine
ASTRO	American Society for Radiation Oncology
EFOMP	European Federation of Organisations for Medical Physics
ESR	European Society for Radiology
IAEA	International Atomic Energy Agency
ILROG	International Lymphoma Radiation Oncology Group
PTCOG	Particle Therapy Co-Operative Group



ESTRO AWARDS

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AWARDS OVERVIEW

★ LIFETIME ACHIEVEMENT AWARD

Michael Brada (UK)

Mary Coffey (IE)

Jean-Pierre Gérard (FR)

Ben Mijnheer (NL)

★ ESTRO AWARD LECTURES

Emmanuel van der Schueren Award

Did I do it right? What was the result? Process and outcomes in radiotherapy

Ann Barrett (UK)

Saturday 30 April from 12:35-13:15

Donal Hollywood Award

FLAME randomized trial: 95Gy MRI-boost vs 77Gy prostate radiotherapy: toxicity and quality of life

Marco van Vulpen (NL)

Sunday 1 May 2016 from 12:00-12:15

Klaas Breur Award

Whither fractionation?

Peter Hoskin (UK)

Monday 2 May from 12:45-13:15

★ HONORARY MEMBER LECTURES

Evidence-based education: Radiation Oncology's forgotten foundation?

Sandra Turner (AU)

Saturday 30 April from 17:45-18:00

The future of surgical oncology

Riccardo Audisio (UK)

Saturday 30 April from 18:00-18:15

Imaging in lung cancer radiotherapy: beyond the "pictures"

Lorenzo Bonomo (IT)

Saturday 30 April from 18:15-18:30

★ ESTRO ACADEMIC AWARD

Jack Fowler University of Wisconsin Award

Moving away from binary definition of PTVs: a novel probabilistic approach to PTV definition

Henry Shui-heng Tsang (UK)

Sunday 1 May 2016 from 17:30-17:40



Michael Brada

★ LIFETIME ACHIEVEMENT

MICHAEL BRADA

*University of Liverpool & Clatterbridge Cancer Centre
Liverpool, UK*

Michael Brada FRCP FRCR DSc is a Professor of Radiation Oncology at the University of Liverpool and Clatterbridge Cancer Centre; previously at the Royal Marsden Hospital, London. A leading expert in neuro-oncology and thoracic oncology and author and co-author of more than 250 peer-reviewed articles, editorials and book chapters.

As the President of ESTRO (2003-2005) he restored the focus on education; as the President of EANO (European Association of Neuro-oncology) nurtured a young organisation towards the principal European force it is now.

He has been a leader in the development of radiotherapy in neuro-oncology, with benchmark studies of technical aspects and clinical outcome of stereotactic radiotherapy and key studies of late toxicity of cranial irradiation. He made a major contribution to chemotherapy and radiotherapy in glial tumours and brain metastases. In lung cancer he developed and tested novel technologies including motion management techniques and high precision irradiation. Throughout his career has been a passionate believer in evidence based medicine. He has a deep interest in improving care and developing and testing novel methods of follow-up. His studies have resulted in widespread changes to clinical practice.

His interest in evaluation of novel technologies through systematic reviews and meta-analyses focusing on benefit to patients have generated heated debates and continue to irritate “believers” in technical innovation as a sufficient goal for the future of radiotherapy.



Mary Coffey

★ LIFETIME ACHIEVEMENT AWARD

MARY COFFEY

*TCD School of Radiation Therapy St James's Hospital
Dublin, Ireland*

Mary spent her working life improving the quality of care given to cancer patients through high-level education for Radiation Therapists (RTTs) and raising safety awareness. She led the development of the degree programme in Radiation Therapy in Ireland and was head of the Division of Radiation Therapy in Trinity College Dublin until 2012. She was chairperson of the project groups responsible for the development of ESTRO European curriculum for RTTs, the International Atomic Energy Agency (IAEA) Handbook for the Education of Radiation Therapists and the ESTRO Benchmarking document for RTTs. She is chair of the ESTRO project *Best Practice in Radiation Oncology: a Project to Train RTT Trainers* now in its eighth year.

She has been active in health economics having been a member of the expert group reporting on radiotherapy services in Ireland which resulted in a major development of radiotherapy services in the country, a member of the IAEA group on staffing and currently a member of the ESTRO Health Economics in Radiation Oncology (HERO) group.

She has been interested in risk management and safety in radiotherapy for many years, is a founder member of the Radiation Oncology Safety Information System (ROSIS) aimed at sharing information on incidents and near incidents, and is the current chair of the Radiation Oncology Safety Committee.

Mary established the RTT committees of the EORTC and ESTRO and is still active in the ESTRO RTT committee. She is a member of the ESTRO Board.



Jean-Pierre Gérard

★ **LIFETIME ACHIEVEMENT AWARD**

JEAN-PIERRE GÉRARD

Centre Antoine Lacassagne, Nice, France

Jean-Pierre Gérard graduated as a specialist in oncology in 1973 and worked with Prof Papillon in Centre Léon Bérard until 1979, when he was nominated Professor in the Lyon University for Oncology-Radiotherapy, and became head of the new department of Radiation Oncology in CHU Lyon-Sud. He moved to Nice to become Directeur Général of Centre Antoine Lacassagne in 2001. He was President of ESTRO between 1999 and 2000, and President of the French Radiation Oncology Society, SFRO, from 2004 to 2005. He was a visiting professor at the medical faculty in Alexandria, Egypt, in 2009, and in 2012 was awarded honorary Professorship at the Oncology University of Wuhan-Hubei, in China. Since 2013, he has been Professor Emeritus at the University of Nice – Consultant Centre Antoine-Lacassagne.

Professor Jean-Pierre Gérard is presently clinically active in the field of rectal cancer where he is leading the OPERA phase III trial to test the role of contact x-ray brachytherapy for organ preservation. He is also involved in the development of the new Proteus one proton machine 230 MeV in Nice. He was awarded several French distinctions, such as the Palmes académiques: Chevalier in 1996 and Officier in 2001, the Médaille d'honneur du Service de Santé des Armées, in 1997, the Insignes de Chevalier de la Légion d'Honneur in 2004, and the Antoine Béclère medal in 2015.



★ LIFETIME ACHIEVEMENT AWARD

BEN MIJNHEER

The Netherlands Cancer Institute, Amsterdam, The Netherlands

Ben Mijnheer got his PhD in 1971 at the University of Amsterdam based on a study concerning neutron measurements. He was appointed on a neutron therapy project in the Netherlands Cancer Institute – Antoni van Leeuwenhoek Hospital in Amsterdam, and after this project finished, he joined this institution as a clinical physicist, where he remains until now involved in various research projects and teaching activities.

His main research activities are in the field of dosimetry of ionising radiation, the development of new irradiation techniques, and quality assurance of radiotherapy. He was Professor in Medical Technology in Oncology at Inholland University of Professional Training and the first Physics Editor of Radiotherapy and Oncology. He is co-author of about 250 articles and chapters in books, has received approximately 20 personal research grants, and was supervisor of about 25 PhD theses.

He was involved in the organisation of the physics part of many ESTRO scientific meetings and faculty member/course director of several ESTRO teaching courses. He was also involved in numerous other courses dealing with various aspects of radiotherapy for medical physicists, radiation oncologists and radiation therapy technologists, both at national and international level.

He received the ESTRO Breur Medal Award in Edinburgh in 1998 and the ESTRO Emmanuel van der Schueren Award in 2013 in Geneva.



★ EMMANUEL VAN DER SCHUEREN AWARD

ANN BARRETT

University of East Anglia, Norwich, UK

Ann started her radiotherapy career in London and worked with Professor Michael Peckham at the time when he and Emmanuel van der Schueren set up ESTRO. She fostered her European links when she worked with Ms. Bataini, Laugier and Gerbault in Paris.

She then returned to the Royal Marsden Hospital where she worked until 1986 with a practice in lymphoma, testicular, breast and paediatric cancers. She also developed a TBI schedule with a purpose built machine for the new technique of BMT. She then accepted a position as a Foundation chair in Glasgow, the second largest cancer centre in the UK, where she remained for 16 years with a national sarcoma practice and a laboratory programme with Tom Wheldon in targeted radiotherapy before moving to Norwich as Deputy Dean of a new medical school.

She is co-author of *Practical Radiotherapy Planning*, now in its fifth edition, *Cancer in Children*, several Oxford oncology books and more than 150 publications.

She was a long term member of the Education and Training Committee of ESTRO and President of ESTRO in 1997. In the UK she was President of the Scottish Radiological Society in 1996, Dean of the Royal College of Radiologists from 2002 to 2004, and a member of many committees including those involved in the CHART and START trials. She has held travelling professorships in Australasia and Canada. She is Emeritus Professor of Oncology and has acted as an advisor to the UK government on radiotherapy and NATO on the acute effects of radiation.



Marco Van Vulpen

★ DONAL HOLLYWOOD AWARD

MARCO VAN VULPEN

University Medical Center Utrecht, Utrecht, The Netherlands

Dr van Vulpen obtained his MD at the University of Amsterdam and his PhD at the University of Utrecht, both in The Netherlands. After graduation as a radiation oncologist he pursued a fellowship at the Cross Cancer Institute, Department of Radiation Oncology in Edmonton, Alberta, Canada, where he participated in the Image-guided Adaptive Radiotherapy (IGART) program within the Center for Biological Imaging and Adaptive Radiotherapy.

In 2011 he was appointed full Professor and held his inaugural speech entitled “the End of Radiotherapy”. Since 2013 he has been chair of the Department of Radiotherapy at the University Medical Center Utrecht, The Netherlands. He is clinical chair of the Center of Image Guided Oncological Interventions at the Universitair Medisch Centrum (UMC) Utrecht, where a 1.5 Tesla magnetic resonance imaging (MRI) linear accelerator is being developed. He is clinical chair of the International Consortium, ATLANTIC, on the worldwide clinical introduction of the MRI linear accelerator. He currently serves as adjunct professor and faculty member at the Department of Radiotherapy at the University of Texas MD Anderson Cancer Center, Houston, Texas.

His major research interests include the development and clinical introduction of different adaptive MRI guided oncological interventions. He has published over 130 papers in peer-reviewed journals.



★ **KLAAS BREUR AWARD**

PETER HOSKIN

Mount Vernon Cancer Centre, Mount Vernon Hospital, Northwood UK

Peter Hoskin trained in clinical oncology at the Royal Marsden Hospital London and has been consultant in clinical oncology at Mount Vernon Cancer Centre, Northwood UK since 1992. He is also Professor in Clinical Oncology at University College London.

Research interests have ranged from palliative radiotherapy to the use of hypoxic radiosensitisers and brachytherapy. Current research programmes focus on radiotherapy quality assurance, palliative radiotherapy, and the role of HDR brachytherapy in prostate cancer. He has published over 350 original papers and reviews and nine textbooks.

Other activities include: elected member of ESTRO Board, chair of the GEC-ESTRO prostate brachytherapy group UROGEC and past chair of the GEC-ESTRO Committee, course organiser for the ESTRO prostate brachytherapy course, chair of the FRCR examination Board, Past Editor of *Clinical Oncology*, currently Clinical Editor of *Radiotherapy and Oncology* and member of the Editorial Boards of the *Journal of Contemporary Brachytherapy* and the *Journal of Bone Oncology*.



Sandra Turner

★ HONORARY MEMBER

SANDRA TURNER

*Crown Princess Mary Cancer Centre, Westmead Hospital
Sydney, Australia*

Sandra is a radiation oncologist working in Sydney, sub-specialising in genitourinary malignancies. Outside her clinical role, she is a councilor on the RANZCR, Faculty of Radiation Oncology (FRO) Board, and is chair of their Media & Profile Committee leading an international patient advocacy campaign, 'Targeting Cancer', which raises community awareness and educates primary care health professionals about radiation therapy. Her other passion is in the area of radiation oncology professional education.

Ass. Prof Turner was the previous past Chief Censor, Chief Examiner and Chair of the FRO Education and Training Committee, playing a major role in the modernisation of the training programme curriculum, and its implementation across Australia, New Zealand, and Singapore. She remains keenly involved with on-going evolution in radiation oncology teaching and learning methods, both in her country and around the world, aiming to align medical educational developments with best practice in this area. She is enthusiastic about increasing her colleagues understanding of the evidence behind, the scholarly approach to studying, and the critical importance of education of all radiation oncology practitioners to the highest quality achievable.

Ass. Prof Turner has facilitated formalisation of the strong educational links between the ESTRO and RANZCR societies. She is committed to strengthening ongoing linkages between those entrusted with educational developments around the globe, so that we can learn from each other and continue raising the bar in this sphere, ultimately for the benefit of our patients.



Riccardo Audisio

★ HONORARY MEMBER

RICCARDO AUDISIO

St Helens Teaching Hospital, University of Liverpool, Liverpool, UK

Riccardo was born in Milan, Italy and graduated in Padua (1980). He specialised in General Surgery (1985) and Diagnostic Radiology (1994). Trained at the National Cancer Institute of Milan (1980-94) he was appointed deputy director at the Department of General Surgery, European Institute of Oncology, Milan (1994-1998).

He moved to the United Kingdom in 1999 to become Consultant Surgical Oncologist and Honorary Professor at the University of Liverpool.

Past Editor of *Surgical Oncology*, published by Elsevier (2007-2013) he is Editor-in-Chief of the *European Journal of Surgical Oncology*. Author of 220 peer-reviewed publications and 36 book chapters, Professor Audisio has edited 20 book projects and is guest reviewer to 39 international scientific journals.

Professor Audisio is past-President of BASO (British Association of Surgical Oncologists) and President of ESSO (European Society of Surgical Oncology). He is serving as an advisor to the Department of Health and to the All Party Parliamentary Group on Breast Cancer in Older Women. Professor Audisio sits on the Board of Directors of ECCO, the European CanCer Organisation. He is member of several international scientific societies including BASO, ESSO, SSO, ASGBI, ASCRS, AAA, SIOG and EUSOMA. He is past-chair of the Education and Training Committee of ESSO. His clinical research focuses on breast cancer and geriatric oncology. Past-President of SIOG (International Society of Geriatric Oncology) and past-chair the Surgical Task Force, Professor Audisio has organised several international advanced courses/meeting on cancer surgery, breast cancer and geriatric-oncology.



★ HONORARY MEMBER

LORENZO BONOMO

Catholic University of Rome, Rome, Italy

Lorenzo Bonomo, has been a respected leader and educator among international radiologists during his career in chest imaging. His research is covered by more than 350 scientific publications. Currently Professor of Radiology at the Catholic University of Rome, Dr Bonomo is also Director of the University's Training Programme in Radiology.

Parallel to his professional activities, Dr Bonomo has served as president in several radiological organisations, including the Italian Society of Thoracic Radiology, from 1992 to 1996; the European Society of Thoracic Imaging (ESTI), from 1999 to 2000; and the First World Congress of Thoracic Imaging and Diagnosis in Chest Disease, in 2005. He also received honorary membership from ESTI in 2006.

His dedication to radiology has brought him numerous awards, including honorary membership of the Argentinean, French, German, Greek, Italian, Romanian, Spanish, Bulgarian and RSNA radiological societies. He was awarded a gold medal by the European Society of Emergency Radiology in 2013.

Over the past decade, Dr Bonomo has held several prestigious positions within national and international radiological societies. He served as president of the Italian Radiological Society from 2002 to 2004, during which time he was also a member of the Education Committee of the European Association of Radiology (EAR).

He went on to serve as treasurer of the EAR, from 2005 to 2007, before the organisation became a part of the newly founded European Society of Radiology (ESR), where he is now the past-President. Dr Bonomo oversaw the organisation of the European Congress of Radiology, as ECR 2012 Congress President.



Henry Shui-heng
TSANG

★ **ESTRO-JACK FOWLER UNIVERSITY OF WISCONSIN AWARD**

HENRY SHUI-HENG, TSANG

Moving away from binary definition of PTVs: a novel probabilistic approach to PTV definition, London, UK

Henry Tsang is currently working towards his PhD at the Institute of Cancer Research, London, under the supervision of Prof Uwe Oelfke. Entitled “Optimisation of radiotherapy in the presence of uncertainty”, his primary research focus is in probabilistic treatment planning. Currently, he is investigating the trade-off between target coverage and the dose delivered to nearby organs at risk.

Prior to medical physics, Henry completed his BSc in physics at Imperial College London, graduating with first-class honours in 2013. For his bachelor thesis, Henry was building models of proton precipitation in the Jovian atmosphere, in preparation for data Juno will collect later this year.

Henry’s interest has not always been in medical physics. Back in secondary school, Henry he had a keen interest in nuclear physics. It was not until his first year at university, when Henry attended a seminar on hadron therapy, that he became captivated by the application of physics to medicine.

He is still in the early stages of his career and is currently discovering the realm of medical physics with great enthusiasm. Outside of academia, Henry enjoys recreational badminton and travelling. He is also a proficient classical pianist, having completed his associate diploma in piano recital in 2007.

ESTRO 35 APP

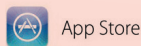


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ABSTRACT BOOK

The abstract book will be directly downloadable from the app.



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PRE-MEETING COURSES

■ Radiobiology track

CLINICAL APPLICATION OF NEW COMBINATIONS: HOW TO TEST AND OPTIMISE NOVEL BIOLOGICAL AGENTS IN COMBINATION WITH RADIOTHERAPY

09:15 - 17:00 | LONDRA

Course Directors: A. Chalmers (UK) and D. Zips (Germany)

- 09:15 **INTRODUCTION AND OVERVIEW**
Course Director: A. Chalmers (UK)
- 09:30 **INTRINSIC CELLULAR TARGETS, INCLUDING THE DNA DAMAGE RESPONSE AND ONCOGENIC SIGNALLING PATHWAYS**
A. Chalmers (UK)
- 10:00 **TUMOUR MICROENVIRONMENT TARGETS, INCLUDING HYPOXIA, VASCULATURE AND THE IMMUNE SYSTEM**
R. Bristow (Canada)
- 10:30 **COFFEE BREAK**
- 11:00 **PRECLINICAL EVALUATION OF NOVEL DRUG-RADIOTHERAPY COMBINATIONS: IN VITRO AND EARLY IN VIVO TESTING**
Teacher: C. Vens (The Netherlands)
- 11:30 **PRECLINICAL EVALUATION OF NOVEL DRUG-RADIOTHERAPY COMBINATIONS: COMPLEX IN VIVO MODELS**
Teacher: M. Baumann (Germany)
- 12:00 **CLINICAL TRIAL DESIGN: INCLUDING DOSE SELECTION, DOSE ESCALATION AND BIOMARKER DRIVEN STUDY DESIGNS**
Teacher: P. Lambin (The Netherlands)
- 12:30 **DISCUSSION**
- 13:00 **LUNCH**
- 14:00 **MOLECULAR BIOMARKERS FOR OPTIMISATION OF NOVEL RADIOTHERAPY-DRUG COMBINATIONS**
Teacher: D.G. Duda (USA)
- 14:30 **IMAGING BIOMARKERS FOR OPTIMISATION OF NOVEL RADIOTHERAPY-DRUG COMBINATIONS**
Course Director: D. Zips (Germany)
- 15:00 **COFFEE BREAK**

- 15:30 **LESSONS LEARNED: EXAMPLES FROM ONGOING TRIALS FOCUSING ON TARGETING DNA REPAIR**
Teacher: M. Verheij (The Netherlands)
- 16:00 **LESSONS LEARNED: EXAMPLES FROM ONGOING TRIALS FOCUSING ON TRIALS TESTING IMMUNOTHERAPIES WITH RADIATION**
Teacher: E. Deutsch (France)
- 16:30 **FINAL DISCUSSION**
Course Directors: A. Chalmers (UK) and D. Zips (Germany)

■ **Clinical track**

PRE-CONGRESS COURSE: RE-IRRADIATION: BACKGROUND, STATE OF ART AND PERSPECTIVES FOR CLINICAL PRACTICE

08:30 - 17:30 | ROOM 3

Course Directors: N. Burnet (UK) and V. Valentini (Italy)

- 08:30 **WELCOME AND INTRODUCTION**
Course Directors: N. Burnet (UK) and V. Valentini (Italy)
- 08:35 **NORMAL TISSUE TOLERANCE CONSTRAINS TO RE-IRRADIATION**
Teacher: N. Russell (The Netherlands)
- 09:05 **THE ISSUE OF FRACTIONATION AND TOTAL DOSE**
Teacher: C. Nieder (Norway)
- 09:35 **POSSIBILITY TO INCREASE THERAPEUTIC RATIO WITH SENSITISERS, CYTOTOXIC DRUGS, TARGETED AGENTS, HYPERTHERMIA**
Teacher: P. Tsoutsou (Switzerland)
- 10:05 **DISCUSSION**
- 10:20 **COFFEE BREAK**
- 10:45 **IMAGING**
Teacher: U. Nestle (Germany)
- 11:15 **BRAIN TUMOURS**
Teacher: G. Minniti (Italy)
- 11:45 **HEAD AND NECK CANCER**
Teacher: G. Kovács (Germany)
- 12:15 **DISCUSSION**
- 12:30 **LUNCH**
- 13:30 **PROSTATE CANCER**
Teacher: M. Van Vulpen (The Netherlands)
- 14:00 **RECTAL CANCER**
Teacher: M. Massaccesi (Italy)
- 14:30 **BONE METASTASES**
Teacher: P. Hoskin (UK)
- 15:00 **DISCUSSION**

- 15:15 **COFFEE BREAK**
- 15:45 **RE-IRRADIATION AND MODERN PLANNING**
Teacher: D. Verellen (Belgium)
- 16:15 **RE-IRRADIATION AND NEW BEAMS**
Teacher: J. Debus (Germany)
- 16:45 **RECOMMENDATION FOR BACK TO THE CLINIC AND DISCUSSION**
Course Director: N. Burnet (UK)
- 17:25 **CONCLUSIONS**
Course Directors: N. Burnet (UK) and V. Valentini (Italy)

■ **Physics track**

PRE-CONGRESS COURSE: MULTIDIMENSIONAL DOSIMETRY SYSTEMS

09:00 - 17:10 | ROOM 2

Course Directors: N. Jornet (Spain) and J. Van de Kamer (The Netherlands)

- 09:00 **WELCOME**
- 09:10 **INTRODUCTION AND MOTIVATION**
Course Directors: N. Jornet (Spain) and J. Van de Kamer (The Netherlands)
- 09:30 **PASSIVE DETECTORS FOR 2D DOSIMETRY (FILMS, ALANINE,...)**
Teacher: N. Jornet (Spain)
- 10:00 **ACTIVE 2D AND 2.5D DETECTORS (EPID, ARRAYS, TRANSMISSION
DETECTORS,...)**
Teacher: F. Wittkämper (The Netherlands)
- 10:30 **COFFEE BREAK**
- 11:00 **DOSE TO WATER VS DOSE TO MEDIUM - IMPLICATIONS TO (SOLID)
PHANTOM DESIGN**
Teacher: J. Seuntjens (Canada)
- 11:30 **TIME RESOLVED DOSIMETRY**
Teacher: F. Nordström (Sweden)
- 12:00 **ANALYSIS OF MULTIDIMENSIONAL DOSIMETRIC INFORMATION**
Course Director: J. Van de Kamer (The Netherlands)
- 12:30 **LUNCH**
- 13:45 **LINAC LOGFILE BASED DOSE ASSESSMENT - NO NEED FOR
MEASUREMENTS?**
Teacher: W. Lechner (Austria)
- 14:15 **NOVEL DOSIMETRY SYSTEMS: SCINTILLATION DETECTORS**
Teacher: C.E. Andersen (Denmark)
- 14:45 **NEW DEVELOPMENTS: DEFORMABLE SILICON DOSIMETER**
Teacher: P.S. Skyt (Denmark)
- 15:15 **COFFEE BREAK**
- 15:45 **DOSIMETRY FOR CHARGED PARTICLE THERAPY**
Teacher: H. Palmans (UK)

16:15

DOSIMETRIC ASPECTS IN MAGNETIC FIELDS

Teacher: B. Van Asselen (The Netherlands)

16:45

CONCLUDING REMARKS

Course Directors: N. Jornet (Spain) and J. Van de Kamer (The Netherlands)

■ RTT TRACK

PRE-CONGRESS COURSE: CONTOURING OF ORGANS AT RISK: THEORY AND PRACTICE

08:30 - 17:45 | ISTANBUL

Course Directors: M. Leech (Ireland) and D. Pasini (Italy)

- 08:30 **WELCOME AND INTRODUCTION**
Course Directors: M. Leech (Ireland) and D. Pasini (Italy)
- 08:45 **INTRODUCTION TO THE CONCEPTS OF OAR CONTOURING**
Teacher: J.G. Eriksen (Denmark)
- 09:15 **THEORY: THE OAR IN HEAD AND NECK (PAROTIDS, COCHLEA,
PHARYNX MUSCLES) DELINEATION AND DOSE TOLERANCE**
Teacher: N. Dinapoli (Italy)
- 09:45 **FALCON SOFTWARE**
Course Director: D. Pasini (Italy)
- 10:00 **PRACTICE IN OAR DELINEATION: HEAD AND NECK CONTOURING
SESSION (1)**
- 11:00 **PRACTICE IN OAR DELINEATION: HEAD AND NECK CONTOURING
SESSION (2)**
- 11:30 **VERIFICATION AND DISCUSSION**
Teacher: N. Dinapoli (Italy)
- 12:00 **THEORY: THE OAR FOR SBRT IN THORAX (HEART, BRACHIAL
PLEXUS, TRACHEA AND LARGE BRONCHI) DELINEATION AND DOSE
TOLERANCE**
Teacher: N. Andratschke (Switzerland)
- 12:30 **PRACTICE IN OAR DELINEATION: THORAX CONTOURING SESSION (1)**
- 14:00 **PRACTICE IN OAR DELINEATION: THORAX CONTOURING SESSION (2)**
- 14:30 **VERIFICATION AND DISCUSSION**
Teacher: N. Andratschke (Switzerland)
- 15:00 **THEORY: THE OAR SBRT IN UPPER ABDOMEN (STOMACH,
LIVER, DUODENUM/BOWEL, PANCREAS, KIDNEYS, BILE DUCTS)
DELINEATION AND DOSE TOLERANCE**
Teacher: A. Mendez Romero (The Netherlands)

16:00 **PRACTICE IN OAR DELINEATION: UPPER ABDOMEN CONTOURING SESSION**

17:00 **VERIFICATION AND DISCUSSION**

Teacher: A. Mendez Romero (The Netherlands)

17:30 **CONCLUSIONS**

Course Directors: M. Leech (Ireland) and D. Pasini (Italy)

Tutor: S. Hol (The Netherlands)

Tutor: E. Forde (Ireland)

■ **Interdisciplinary track**

PLANNING AND DELIVERING HIGH-DOSE LUNG RADIOTHERAPY IN CLINICAL PRACTICE

09:00 - 17:20 | ROOM 4

Course Directors: M. Schwarz (Italy) and D. De Ruyscher (The Netherlands)

- 09:00 **INTRODUCTION TO THE COURSE**
Course Directors: M. Schwarz (Italy) and D. De Ruyscher (The Netherlands)
- 09:10 **SOLVED PROBLEMS AND OPEN QUESTIONS IN RT OF LUNG CANCER**
Teacher: F. McDonald (UK)
- 09:45 **ANATOMICAL AND FUNCTIONAL IMAGING FOR TARGET DELINEATION**
Teacher: S. Peeters (Belgium)
- 10:30 **COFFEE BREAK**
- 11:00 **PHYSICS ASPECTS OF TREATMENT PLANNING IN HIGH DOSE LUNG RT**
Teacher: M. Söhn (Germany)
- 11:40 **DOSE-EFFECT RELATIONS FOR NORMAL TISSUES INVOLVED IN LUNG RT**
Teacher: J.J. Sonke (The Netherlands)
- 12:20 **HYPOFRACTIONATION: THE ANSWER FOR ALL LUNG CANCER PATIENTS OR A SPECIFIC TOOL FOR SPECIFIC NEEDS?**
Teacher: S. Ramella (Italy)
- 13:00 **LUNCH**
- 14:00 **3D AND 4D IMAGE GUIDANCE IN CLINICAL PRACTICE**
Teacher: T. Schytte (Denmark)
- 14:45 **ADAPTIVE RADIOTHERAPY OF LUNG CANCER IN CLINICAL PRACTICE**
Teacher: D. Moeller (Denmark)
- 15:30 **COFFEE BREAK**
- 16:00 **(POTENTIAL) ROLE OF PARTICLE THERAPY**
Teacher: M. Engelsman (The Netherlands)
- 16:40 **GENOMICS AND RADIOMICS: READY FOR THE CLINIC?**
Course Director: D. De Ruyscher (The Netherlands)
- 17:10 **CONCLUSION**

CONTOURING WORKSHOPS

◆ SPINE SBRT

Friday 29 April from 08:00-10:00 | Room Verde
Repeated on Saturday 30 April 2016 from 14:30-16:30

Chair: M. Guckenberger (Austria)
Panellists: M. Dahele (The Netherlands) and L. Schiappacasse (Switzerland)
Tutors: B. Tamaskovics (Germany) and A. Branquinho (Portugal)

◆ OAR FOR THE UPPER ABDOMEN

Friday 29 April from 10:30-12:30 | Room Verde
Repeated on Sunday 1 May 2016 from 14:15-16:15

Chair: T. Brunner (Germany)
Panellists: A. Mendez Romero (The Netherlands) and G. Macchia (Italy)
Tutors: B. Tamaskovics (Germany) and A. Branquinho (Portugal)

◆ ANAL CANAL

Friday 29 April from 13:30-15:30 | Room Verde
Repeated on Monday 2 May 2016 from 14:30-16:30

Chair: A. Gambacorta (Italy)
Panellists: M. Hawkins (UK) and J. Mills (UK)
Tutors: C. Panje (Switzerland) and R. Simões (UK)

◆ PROSTATE CANCER IN THE POST PROSTATECTOMY

Friday 29 April from 16:00-18:00 | Room Verde
Repeated on Tuesday 3 May 2016 from 08:30-10:30

Chair: P. Ost (Belgium)
Panellists: C. Salembier (Belgium) and B. Pieters (The Netherlands)
Tutors: C. Panje (Switzerland) and R. Simões (UK)



FALCON DEMONSTRATIONS ESTRO BOOTH (#3000)

Free 15 minute demonstrations take place everyday
at lunch time and coffee breaks at the ESTRO booth:

10:15 – 10:30

13:45 – 14:00

16:00 – 16:15

Educational aims of the workshops

- Provide attendees with the opportunity for interactive training on contouring CTV, GTV and when relevant OAR and to discuss their results with international experts in the field.
- Provide the participants with knowledge on how contouring is performed in different institutions and on the existing recommendations and guidelines.
- Provide the participants with consistent information to validate or modify/improve their daily contouring practice.

Methodology for the workshops

- Clinical case presentation
- Two delineations; pre- and post guidelines
- Presentation of the contouring guidelines recommended by the experts for the delineation of the CTV, GTV +/- OAR and bibliographic references for the therapeutic strategy chosen
- Inter-comparison of the contours by the participants and by the experts
- Justification and comments
- Analysis of the heterogeneity index.

Requirements

Participants are required to bring their own computer for contouring.

FALCON (Fellowship in Anatomic deLineation and CONtouring) is the multifunctional ESTRO platform for contouring and delineation. Attending a FALCON contouring workshop offers the opportunity for individual professionals:

- to validate their contouring practice during live workshops by comparing them with existing guidelines
- to learn the indications proposed by experts
- to discuss with other participants, experts and panelists
- to adopt delineation guidelines in order to further integrate themselves into daily practice.

MULTIDISCIPLINARY TUMOUR BOARD SESSIONS

◆ BOARD – BREAST CANCER

Saturday 30 April 2016 from 14:30-15:45 | Room Istanbul

Chair: A. Kirby (UK)

Panellists: ESTRO fellow: D. Vordermark (Germany)
Clinical oncologist: B. Offersen (Denmark)
Radiologist: M. Durando (Italy)
Surgeon: R. Audisio (UK)

◆ BOARD – RECTAL CANCER

Sunday 1 May 2016 from 14:15-15:30 | Room Istanbul

Chair: TBC

Panellists: ESTRO fellow: F. Cellini (Italy)
Medical oncologist: TBC
Surgeon: S. Bach (UK)
Radiologist: B. Barbaro (Italy)

◆ OLIGOMETASTATIC DISEASE

Monday 2 May 2016 from 14:30-15:45 | Room Istanbul

Chair: M. Hoyer (Denmark)

Panellists: Young ESTRO member: J-E Bibault (France)
Medical oncologist: M. Di Maio (Italy)
Interventional radiologist: A. Veltri (Italy)
Thoracic surgeon: E. Ruffini (Italy)

YOUNG PROGRAMME

SUNDAY 1 MAY
08.00-17.15 HRS
ROOM MADRID

08:00-08:40 **Teaching Lecture**
**E-LEARNING FOR PROFESSIONALS IN RADIATION ONCOLOGY
WHAT, WHY AND HOW?**

Chair: C. Belka (Germany)

Speaker: A. Berlanga (The Netherlands)

08:45-10:00 **Scientific symposium**
**THE FUTURE OF RADIATION ONCOLOGY PUBLISHING:
VIEWS THROUGH THE GREEN AND RED TELESCOPES**

Chair: P. Mancosu (Italy)

Chair: M. Schmid (Austria)

Green Journal

Speaker: J. Overgaard (Denmark)

**Publishing the science of radiation oncology:
the perspective of the Red Journal's editor**

Speaker: A. Zietman (USA)

How to do a good manuscript review

Speaker: L. Muren (Denmark)

13:00-14:15 **Lunch symposium**
**PLANNING AHEAD: HOW TO FINISH RESIDENCY / PHD PROJECT
WITH A JOB OFFER**

Chair: D. Verellen (Belgium)

Co-chair: U. Oelfke (UK)

Radiation Oncologist

Speaker: S. Rivera (France)

Radiobiologist

Speaker: M-C Vozenin (Switzerland)

Physicist

Speaker: D. Verellen (Belgium)

■ INTERDISCIPLINARY

■ RADIOBIOLOGY

■ CLINICAL

■ BRACHYTHERAPY

■ PHYSICS

■ RTT

■ YOUNG

RESEARCHER

Speaker: U. Oelfke (UK)

14:15-15:30

Symposium

A JOINT SESSION OF YOUNG RADIATION ONCOLOGISTS NATIONAL SOCIETIES & YROG

Chair: J-E Bibault (France)

Co-chair: O. Person (Israel)

What is the Young ESTRO Committee and what can it do for young radiation oncology professionals?

Speaker: J-E Bibault (France)

The Young Radiation Oncology Group of EORTC

Speaker: O. Person (Israel)

The French Society of Young Radiation Oncologists

Speaker: T. Leroy (France)

The Young AIRO (Italian Association of Radiation Oncology) Group

Speaker: D. Greto (Italy)

The British Institute of Radiology

Speaker: S. Hafeez (UK)

Round table with present young national societies

16:15-17:15

YOUNG NETWORKING

The ESTRO Physics Research Masterclass – Support in starting up physics research

Speaker: B. Heijmen (The Netherlands)



SCIENTIFIC PROGRAMME

◆ SATURDAY 30 APRIL 2016	58
◆ SUNDAY 1 MAY 2016	87
◆ MONDAY 2 MAY 2016	119
◆ TUESDAY 3 MAY 2016	148

SATURDAY 30 APRIL 2016

■ Teaching Lecture

TECHNOLOGY ASSESSMENT

08:00 - 08:40 | ROOM 2

Chair: Y. Lievens (Belgium)

08:00 > Technology assessment
Speaker: D. Verellen (Belgium)

ABS. N°

SP-0001

■ Teaching Lecture

CRISPR/CAS TECHNOLOGY: FROM CELLS TO MICE TO STEM CELL THERAPY

08:00 - 08:40 | LONDRA

Chair: B. Wouters (Canada)

08:00 > CRISPR/Cas9 technology: from cells to mice to stem cell therapy
Speaker: H. Te Riele (The Netherlands)

SP-0002

■ Teaching Lecture

PARTIAL BREAST IRRADIATION: WHO, WHEN AND HOW?

08:00 - 08:40 | AUDITORIUM

Chair: D. Gabrys (Poland)

08:00 > Partial Breast Irradiation: who, when and how?
Speaker: C. Coles (UK)

SP-0003

■ Teaching Lecture

NEW TOOLS TO REDUCE TOXICITY IN PELVIC RADIATION

08:00 - 08:40 | GIALLA

Chair: M. A. Gambacorta (Italy)

08:00 > New tools to reduce toxicity in pelvic radiation
Speaker: K. Haustermans (Belgium)

SP-0004

■ Teaching Lecture

ROLE OF BRACHYTHERAPY IN THE MANAGEMENT OF PAEDIATRIC TUMOURS

08:00 - 08:40 | ROOM 4

Chair: G. Kovács (Germany)

08:00 > Role of brachytherapy in the management of paediatric tumours
Speaker: C. Haie-Meder (France)

SP-0005

■ INTERDISCIPLINARY

■ RADIOBIOLOGY

■ CLINICAL

■ BRACHYTHERAPY

■ PHYSICS

■ RTT

■ YOUNG

■ Teaching Lecture

CHALLENGES IN MR GUIDED RADIOTHERAPY

08:00 - 08:40 | ROOM 1

Chair: C. Kirisits (Austria)

- 08:00 > Challenges in MR guided radiotherapy
Speaker: J. Jonsson (Sweden)

SP-0006

■ Teaching Lecture

PATIENT SPECIFIC QUALITY ASSURANCE IN PROTON THERAPY

08:00 - 08:40 | ROOM 500

Chair: S. Molinelli (Italy)

- 08:00 > Patient specific quality assurance in proton therapy
Speaker: R. Amos (UK)

SP-0007

■ Teaching Lecture

BALANCING TOXICITY AND DISEASE CONTROL IN THE EVOLUTION OF RADIOTHERAPY TECHNOLOGY

08:00 - 08:40 | ROOM 3

Chair: A. Vaandering (Belgium)

- 08:00 > Balancing toxicity and disease control in the evolution of radiotherapy technology
Speaker: B. O'Sullivan (Canada)

SP-0008

■ Symposium

SELECTION OF PATIENTS FOR PROTON THERAPY

08:45 - 10:00 | ROOM 2

This session will provide three different views on how to select the patients for proton therapy. Proton therapy is not magic and proton therapy risk within the target volume is identical to other radiation therapies, the differences are most often in the intermediate and low dose volumes outside the target. Comparative treatment planning is essential and it should be free from observer bias. Automated treatment planning and robust optimisation techniques should be considered. NTCP modeling is suggested as an unbiased method for patient selection. Differences in DVHs (Δ dose) require translation into clinical effects (Δ NTCP) to become clinically meaningful.

Chair: M. Hoyer (Denmark)

Co-Chair: M. Ciocca (Italy)

- 08:45 > Patient selection for proton therapy: a clinicians view
Speaker: A. Mahajan (USA)

SP-0009

- 09:10 > Selection of patients for proton therapy: a physicists view
Speaker: M. Hoogeman (The Netherlands)

SP-0010

- 09:35 > Future selection practice for proton therapy: selection of patients based on treatment planning comparison and NTCP-modelling
Speaker: H. Langendijk (The Netherlands)

SP-0011

Symposium

MITIGATING NORMAL TISSUE TOXICITY

08:45 - 10:00 | LONDRA

The session is a well balanced session consisting of two biologically-oriented and experimental talks (by S. van der Veen and L. Meziani) and one clinically oriented (by S. Delanian). The first talk will show the benefit triggered by molecular modulation using ACE inhibitors on cardiopulmonary function and cardiac damage. The second will review the clinical benefit of the combination Pentoxyfyllin, Vitamin E and Clodronate with possible mechanistic insights. The third will show the contribution of innate immune system to late radiation-induced pulmonary damages with a specific focus on macrophages leading to innovative therapeutic intervention.

Chair: M-C Vozenin (Switzerland)

Co-Chair: L. Pirtoli (Italy)

- 08:45 > The use of ACE inhibitors to attenuate thoracic irradiation-induced cardiopulmonary toxicity.
Speaker: S. Van der Veen (The Netherlands)

SP-0012

- 09:10 > Radiation-induced musculoskeletal late damages: possible clinical cure or simple mitigation?
Speaker: S. Delanian (France)

SP-0013

- 09:35 > Radiation-induced lung fibrosis is associated with M2 interstitial and hybrid alveolar macrophages
Speaker: L. Meziani (France)

SP-0014

Symposium

REGIONAL NODAL IRRADIATION FOR BREAST CANCER

08:45 - 10:00 | AUDITORIUM

The first speaker in this session will review conflicting data around surgical and radiotherapeutic management of the axilla in breast cancer patients and how these impact on current clinical practice. The second speaker will review recently published data on irradiation of the internal mammary chain (IMC) with a view to determining whether every node-positive patient should have the IMC irradiated. The final talk will cover technical approaches to treating locoregional lymph nodes and will review the evidence base for dose constraints, the dosimetric consequences of different technical approaches including protons, and the resource impact on our departments.

Chair: A. Kirby (UK)

Co-Chair: R. Orecchia (Italy)

- 08:45 > The axilla- less surgery, more radiotherapy?
Speaker: M.I. Algara López (Spain) SP-0015
- 09:10 > The internal mammary chain - should we treat it in every node-positive patient?
Speaker: P. Poortmans (The Netherlands) SP-0016
- 09:35 > Technical approaches to regional lymph node irradiation for breast cancer
Speaker: A. Kirby (UK) SP-0017

■ Symposium

ASSESSMENT AND MANAGEMENT OF RECTAL MORBIDITY

08:45 - 10:00 | GIALLA

This symposium is dedicated to clarifying the rectal symptoms after radiotherapy to the small pelvis. Only a few are directly linked to ionizing radiation to the bowel or anal sphincter region. It will be discussed the definition of unique set of pathophysiology to be introduced in the planning of radiotherapy. The second topic will aim to distinguish between objective toxicity scoring and subjective patient reported outcomes. Rectal and anal toxicity dose volume histogram and changes will be discriminated. Lastly, the impact and the interest of using rectal spacer to minimized morbidity during irradiation of prostate cancer will be commented.

Chair: P. Maingon (France)

Co-Chair: D. Genovesi (Italy)

- 08:45 > Towards a scoring system built on six distinct radiation-induced illnesses producing late gastrointestinal effects
Speaker: G. Steineck (Sweden) SP-0018
- 09:10 > Measuring anorectal toxicity and function
Speaker: D. Vordermark (Germany) SP-0019
- 09:35 > Rectal spacers to minimise morbidity in radiotherapy for prostate cancer
Speaker: M. Pinkawa (Germany) SP-0020

■ Symposium

TOWARDS USER ORIENTED QA PROCEDURES FOR TREATMENT VERIFICATION

08:45 - 10:00 | ROOM 4

The session comprises presentations on treatment planning, imaging, and actual dose verification procedures. Treatment planning will cover acceptance testing, commissioning (general data, TG-43 and non-TG-43 dose calculation algorithms, applicators), periodic QA, TPS inter-comparison, and phantom based tests. Within the context of imaging, all modalities in use for clinical applications will be discussed (x-ray, CT, MRI, US, PET-CT). Dose verification will focus on real-time verification methods including classic applications of in vivo dosimetry, real-time in vivo dosimeters, and applications of real-time in vivo dosimetry.

Chair: A. Haworth (Australia)

Co-Chair: S. Bresciani (Italy)

08:45 > How to ensure the quality in brachytherapy treatment planning systems?
Speaker: F. A. Siebert (Germany)

SP-0021

09:10 > Imaging
Speaker: T.P. Hellebust (Norway)

SP-0022

09:35 > Dose verification
Speaker: K. Tanderup (Denmark)

SP-0023

■ Symposium

ROBUST AND ACCURATE FUNCTIONAL MRI FOR RADIOTHERAPY

08:45 - 10:00 | ROOM 1

This session will focus on different aspects in terms of image acquisition and technical requirements for the integration of Functional Magnetic Resonance Imaging (f-MRI) into radiotherapy (RT). F-MRI can be applied in RT for tissue classification, monitoring of treatment response and dose painting. The geometrical accuracy of the images is of crucial importance. In the second talk, different issues concerning data acquisition and analysis in dynamic contrast enhanced (DCE) MRI will be discussed. Accurate quantification of DCE-MRI parameters is difficult and requires the use of dedicated models. The third speaker will focus on diffusion weighted (DW) MRI including the importance of the choice of b-values, acquisition problems and geometric distortion in extracranial applications of DW-MRI as well as implications for RT.

Chair: D. Thorwarth (Germany)

Co-Chair: G. Loi (Italy)

08:45 > Needs and technical requirements for functional MRI in radiotherapy
Speaker: U. Van der Heide (The Netherlands)

SP-0024

09:10 > Variation in DCE-MRI methodology and its implications for radiotherapy
Speaker: A. Garpebring (Sweden)

SP-0025

■ INTERDISCIPLINARY

■ RADIOBIOLOGY

■ CLINICAL

■ BRACHYTHERAPY

■ PHYSICS

■ RTT

■ YOUNG

- 09:35 > Importance of b-value selection and geometrical accuracy in DW-MRI for radiotherapy
Speaker: M. Lambrecht (Belgium)

SP-0026

■ Joint Symposium ESTRO-IAEA

JOINT ESTRO-IAEA EFFORTS ON DOSIMETRY, QA AND AUDIT FOR ADVANCED TREATMENT TECHNIQUES

08:45 - 10:00 | ROOM 500

Advanced treatment techniques present increasingly complex challenges for commissioning, dosimetry, QA and verification. This joint ESTRO-IAEA symposium reviews activities in some key areas supporting the clinical implementation, evaluation, assurance and development of advanced radiotherapy methods. It focusses on i) the new small/non-standard field dosimetry CoP, to ensure consistent dosimetry in these situations; ii) discussion of small field dosimetry uncertainties for significance/acceptability in VMAT/IMRT, considering whether current practice and tools for patient specific QA can detect such uncertainties; and iii) recent developments and results in the IAEA external audit system and their application and lessons for advanced radiotherapy.

Chair: D.I. Thwaites (Australia)

Chair: J. Izewska (Austria)

- 08:45 > New IAEA-AAPM Code of Practice for dosimetry of small photon fields used in external beam radiotherapy
Speaker: H. Palmans (UK)

SP-0027

- 09:10 > Which dosimetric uncertainties in small fields are clinically acceptable for IMRT/VMAT?
Speaker: W. Lechner (Austria)

SP-0028

- 09:35 > IAEA external audits for advanced radiotherapy - lessons learnt and their relevance for industrialised countries
Speaker: J. Izewska (Austria)

SP-0029

■ Symposium

STRATEGIES FOR TREATMENT PLANNING

08:45 - 10:00 | ROOM 3

Chair: A. Duffton (UK)

Co-Chair: F. Fellin (Italy)

- 08:45 > Comparisons of treatment planning with photons and protons
Speaker: M. Enmark (Sweden)

SP-0030

- 09:10 > When to re-plan: a practical perspective
Speaker: B. Bak (Poland)

SP-0031

- 09:35 > Fully automated treatment planning: benefits and potential pitfalls
Speaker: E. Damen (The Netherlands)

SP-0032

■ Poster Viewing 1

BRACHYTHERAPY

08:45 - 10:00 | POSTER AREA

*Chair: T. Major (Hungary)**Chair: M. Schmid (Austria)*

- > Assessing dose contribution to pelvic lymph nodes in intracavitary brachytherapy for cervical cancer
G.W.Y. Chua (Singapore), D.B.H. Tan, G.H. Tay, Y.W. Foo

PV-0033
- > HDR BT alone in endometrial cancer: up-date of Piedmont experience in 18 years (71 patients)
S. Gribaudo (Italy), U. Monetti, E. Madon, V. Richetto, M. Tessa, F. Moretto, A. Ruggieri, S. Cosma, S. Danese, A. Urgesi

PV-0034
- > Electronic Brachytherapy for basal cell carcinoma: two prospective pilot trials with different doses
O. Pons (Spain), R. Ballester-Sánchez, C. Candela-Juan, F.J. Celada-Álvarez, C. Barker, R. Chicas-Sett, J. Burgos-Burgos, D. Farga-Albiol, M.J. Pérez-Calatayud, A. Tormo-MicA³, J. Pérez-Calatayud, R. Botella-Estrada

PV-0035
- > Dosimetric evaluation of 3D printed applicators for High Dose Rate brachytherapy
A. Vavassori, R. Ricotti (Italy), A. Bazani, F. Pansini, R. Spoto, D. Ciardo, V. Sammarco, F. Cattani, R. Orecchia, B.A. Jereczek-Fossa

PV-0036
- > Application of brachytherapy for residual nasopharyngeal carcinoma after external beam radiotherapy
G. Cheng (China), H. Zhao, M. He, J. Wang, Z. Zhao

PV-0037
- > Multivariable model development for mortality after total salvage Iodine-125 prostate brachytherapy
M. Peters (The Netherlands), J.R.N. Van der Voort van Zyp, M.A. Moerland, C.J. Hoekstra, S. Van de Pol, H. Westendorp, M. Maenhout, R. Kattavilder, H.M. Verkooijen, P.S.N. Van Rossum, H.U. Ahmed, T. Shah, M. Emberton, M. Van Vulpen

PV-0038

- > Urinary incontinence rates in salvage high-dose-rate brachytherapy prostate cancer patients.
P. Wojcieszek (Poland), M. Szlag, A. Cholewka, B. BiaÅ,as, S. Kellas-Slecza, M. FijaÅ,kowski, A. Andrejczuk
- > MRI guided focal primary and (secondary) salvage HDR-BT in prostate cancer patients seems safe
M. Maenhout (The Netherlands), M.A. Moerland, K.M. Van Vliet-van den Ende, R.I. Schokker, M. Borot de Battisti, M. Peters, M. Van Vulpen, J.R.N. Van der Voort van Zyp

PV-0039

PV-0040

■ Symposium

PROTONS OR HEAVY IONS?

10:45 - 11:45 | ROOM 2

Proton beam therapy is developing rapidly, although clinical evidence is still sparse and its cost-effectiveness is still unclear. Radiotherapy with heavier ions is an even more complex technology but may offer additional clinical benefits. This symposium focuses on the scientific basis of these modalities and discusses potential advantages of protons vs. heavier particles. The session will present first the physical characteristics of the various ion types and relevant differences for radiotherapy. Then radiobiology will be discussed, including a critical discussion of RBE models and the role of preclinical studies. Finally, the clinical evidence for ion beams will be summarised discussing esp. the question of feasibility and necessity of randomised clinical trials.

Chair: *O. Jäkel (Germany)*

Co-Chair: *M. Krengli (Italy)*

- 10:45 > Physical advantages of particles: protons vs. heavy ions, what is certain what is not?
O. Jäkel (Germany)
- 11:05 > Radiobiological benefits of protons and heavy ions - advantages and disadvantages
C.P. Karger (Germany)
- 11:25 > How strong is the current clinical evidence for protons and heavy ions?
P. Fossati (Italy)

OC-0041

OC-0042

OC-0043

■ Proffered Papers

RADIOBIOLOGY 1: RADIATION EFFECTS ON NORMAL TISSUES AND THE MICROENVIRONMENT

10:45 - 11:45 | LONDRA

Chair: *D. Kirsch (USA)*

Chair: *N. Russell (The Netherlands)*

- 10:45 > Fingolimod mitigates radiation-induced cognitive deficits by restoring dentate gyrus neurogenesis
A. Stessin (USA), M. Banu, V. Blaho, S. Ryu OC-0044
- 10:55 > Dual pathway inhibition attenuates radiation-induced pulmonary inflammation and fibrosis
N.H. Nicolay (Germany), M. Dadrich, R. Lopez Perez, U. Wirkner, P. Peschke, J. Debus, P.E. Huber OC-0045
- 11:05 > Radiation induced carcinogenesis of cells with stem cell potential from breast and thyroid gland
M. Zwar (Germany), N. Hosper, K. Manda, D. Buttler, U. Giesen, R. Nolte, R. Coppes, G. Hildebrandt OC-0046
- 11:15 > Tumour microenvironment response and bone marrow cell migration after pulsed radiotherapy
K. Reynders (Belgium), E. Wauters, J. Vansteenkiste, H. Decaluwé, P. De Leyn, K. Nackaerts, S. Peeters, C. Dooms, W. Janssens, D. Lambrechts, D. De Ruysscher OC-0047
- 11:25 > A three stage genome wide association study reveals susceptibility for late radiotherapy toxicity at the 2q24 locus
J.L. Kane (USA), S.A. Krueger, A. Hanna, T.R. Raffel, G.D. Wilson, G.J. Madlambayan, B. Marples OC-0048

■ Proffered Papers

CLINICAL I: BREAST

10:45 - 11:45 | AUDITORIUM

Chair: C. Vidali (Italy)

Chair: S. Rivera (France)

- 10:45 > Trends in the use of postoperative radiotherapy following mastectomy: a population-based study
S. Corradini (Germany), J. Engel, C. Belka, M. Niyazi OC-0049
- 10:55 > Variations in use of hypofractionation for early, node-negative breast cancer in NSW 2007-2012
G. Delaney (Australia), S. Gandhidasan, F. Terlich, D. Baker, R. Walton, D. Currow OC-0050
- 11:05 > Variability in lymph node delineation for breast cancer radiotherapy: an AIRO multicenter study
D. Ciardo (Italy), R. Ricotti, B.A. Jerezek-Fossa, A.I.R.O. Breast Cancer Working Group OC-0051

■ INTERDISCIPLINARY ■ RADIOBIOLOGY ■ CLINICAL ■ BRACHYTHERAPY ■ PHYSICS ■ RTT ■ YOUNG

- 11:15 > Long-term age dependent failure pattern after BCT vs. mastectomy in low-risk breast cancer patients
T. Laurberg (Denmark), C. Lyngholm, J. Alsner, P. Chritiansen, J. Overgaard OC-0052
- 11:25 > Re- irradiation for locally recurrent breast cancer
E. Bräutigam (Austria), C. Track, M. Geier, H. Geinitz OC-0053
- 11:35 > Reirradiation and hyperthermia for recurrent breast cancer-en-cuirasse in previously irradiated area
S. Oldenburg (The Netherlands), J. Crezee, Y. Kusumanto, R.M. Van Os, S.B. Oei, J.L.M. Venselaar, P.J. Zum Vörde Sive Vörding, C.R.N. Rasch, G. Van Tienhoven OC-0054

■ Proffered Papers

CLINICAL 2: ADVERSE EFFECTS IN RADIOTHERAPY

10:45 - 11:45 | GIALLA

Chair: K. Dieckmann (Austria)

Chair: S. Chiesa (Italy)

- 10:45 > Pseudo-progression after stereotactic radiotherapy of brain metastases is serious radiation toxicity
R. Wiggenaar (The Netherlands), M. Mast, J.H. Franssen, A. Verbeek- de Kanter, H. Struikmans OC-0055
- 10:55 > FLAME: Influence of dose escalation to 95Gy for prostate cancer on urethra-related toxicity and QOL
J. Van Loon (The Netherlands), M. Van Vulpen, F. Pos, K. Haustermans, R. Smeenk, L. Van den Bergh, S. Isebaert, G. McColl, M. Kunze-Busch, B. Doodeman, J. Noteboom, E. Monnikhof, U.A. Van der Heide OC-0056
- 11:05 > Cardiotoxicity and cardiac substructure dosimetry in dose-escalated lung radiotherapy
S. Vivekanandan (UK), N. Counsell, A. Khwanda, S. Rosen, E. Parsons, Y. Ngai, L. Farrelly, L. Hughes, M. Hawkins, D. Landau, J. Fenwick OC-0057
- 11:15 > Coronary calcifications in breast cancer patients and association with cardiovascular risk factors
S.A.M. Gernaat (The Netherlands), H.J.G. Van den Bongard, B.D. De Vos, I. Isgum, N. Rijnberg, T. Leiner, D.E. Grobbee, Y. Van der Graaf, J.P. Pignol, H.M. Verkooijen OC-0058

- 11:25 > A radiation dose-response relationship for risk of heart failure in survivors of Hodgkin lymphoma
B.M.P. Aleman (The Netherlands), F.A. Van Nimwegen, G. Ntetas, S.C. Darby, M. Schaapveld, M. Hauptmann, P.J. Lugtenburg, C.P.M. Janus, A.D.G. Krol, F.E. Van Leeuwen, D.J. Cutter OC-0059

- 11:35 > Cardiac risk prediction: Moving beyond a mean heart dose model?
M. Maraldo (Denmark), F. Giusti, I. Vogelius, M. Lundemann, S. Bentzen, M. Van der Kaaij, B. Aleman, M. Henry-Amar, P. Meijnders, E. Moser, C. Fortpied, L. Specht OC-0060

■ Proffered Papers

BRACHYTHERAPY I: PROSTATE

10:45 - 11:45 | ROOM 4

Chair: F.A. Siebert (Germany)

Chair: R. Alonzi (UK)

- 10:45 > Focal Brachytherapy: what dose to what volume?
A. Haworth (Australia), H. Reynolds, M. DiFranco, Y. Sun, D. Wraith, S. Williams, B. Parameswaran, C. Mitchell, M. Ebert OC-0061

- 10:55 > High-dose-rate HDR boost for localized prostate cancer decreases long term rectum toxicity
S. Aluwini (The Netherlands), M. Hoogeman, J. Lebesque, C. Bangma, L. Incrocci, W. Heemsbergen OC-0062

- 11:05 > Real-time in-vivo dosimetry in HDR prostate brachytherapy
J. Mason, B. Al-Qaisieh, A. Henry, P. Bownes (UK) OC-0063

- 11:15 > A prediction model for biochemical failure after salvage Iodine-125 prostate brachytherapy
M. Peters (The Netherlands), J.R.N. Van der Voort van Zyp, M.A. Moerland, C.J. Hoekstra, S. Van de Pol, H. Westendorp, M. Maenhout, R. Kattenvilder, H.M. Verkooijen, P.S.N. Van Rossum, H.U. Ahmed, T. Shah, M. Emberton, M. Van Vulpen OC-0064

- 11:25 > Risk of second malignancies after seed prostate brachytherapy as monotherapy in a single institution
A. Fernandez Ots (Australia), J. Bucci, D. Malouf, L. Browne, Y. Chin OC-0065

- 11:35 > Adaptive cone-beam CT planning improves progression-free survival for I-125 prostate brachytherapy
M. Peters, D. Smit Duijzentkunst (The Netherlands), H. Westendorp, S. Van de Pol, R. Kattevilder, A. Schellekens, J. Van der Voort van Zyp, M. Moerland, M. Van Vulpen, C. Hoekstra

OC-0066

■ Proffered Papers

PHYSICS 1: IMAGES AND ANALYSES

10:45 - 11:45 | ROOM 1

*Chair: A. Dekker (The Netherlands)**Chair: M. Esposito (Italy)*

- 10:45 > An automated patient-specific and quantitative approach for deformable image registration evaluation
R.G. Kierkels (The Netherlands), C.L. Brouwer, R.J. Steenbakkens, H.P. Bijl, J.A. Langendijk, N.M. Sijtsema
- 10:55 > Can atlas-based auto-contouring ever be perfect?
B.W.K. Schipaanboord, J. Van Soest, D. Boukerroui, T. Lustberg, W. Van Elmpt, T. Kadir, A. Dekker, M.J. Gooding (UK)
- 11:05 > Using texture analysis to detect prostate cancer for automated outlining and adaptive radiotherapy
D. Welsh (UK), D. Montgomery, D.B. McLaren, W.H. Nailon
- 11:15 > Do radiomics features excel human eye in identifying an irradiated tumor? Rat tumor to patient HNSCC
K. Panth (The Netherlands), S. Carvalho, A. Yaromina, R. T.H. Leijenaar, S. J. Van Hoof, N. G. Lieuwes, B. Rianne, M. Granzier-Peeters, F. Hoebbers, D. Eekers, M. Berbee, L. Dubois, P. Lambin
- 11:25 > Analysis and reporting patterns of failure in the era of IMRT: head and neck cancer applications
A.S.R. Mohamed (USA), D.I. Rosenthal, M.J. Awan, A.S. Garden, E. Kocak-Uzel, A.M. Belal, A.G. El-Gowily, J. Phan, B.M. Beadle, G.B. Gunn, C.D. Fuller
- 11:35 > Respiratory time-resolved 4D MR imaging for RT applications with acquisition times below one minute
C.M. Rank (Germany), T. Heußler, A. Wetscherek, A. Pfaffenberger, M. Kachelrieß

OC-0067

OC-0068

OC-0069

OC-0070

OC-0071

OC-0072

■ Proffered Papers

PHYSICS 2: BASIC DOSIMETRY

10:45 - 11:45 | ROOM 500

Chair: *S. Cora (Italy)*

Chair: *R. Cirio (Italy)*

- 10:45 > Difference in using the TRS-398 code of practice and TG-51 dosimetry protocol for FFF beams
I. Lye (Australia), D.J. Butler, C.P. Oliver, A. Alves, I.W. Williams OC-0073
- 10:55 > A real time in vivo dosimeter integrated in the radiation protection disc for IORT breast treatment
M. Iori (Italy), A. Montanari, N. Tosi, E. Cagni, A. Botti, A. Ciccotelli, G. Felici OC-0074
- 11:05 > Impact of air around an ion chamber: solid water phantoms not suitable for dosimetry on an MR-linac
S. Hackett (The Netherlands), B. Van Asselen, J. Wolthaus, J. Kok, S. Woodings, J. Legendijk, B. Raaymakers OC-0075
- 11:15 > Towards MR-Linac Dosimetry: B-Field Effects on Ion Chamber Measurements in a Co-60 beam
L. Agnew (UK), G. Budgell, S. Duane, F. O'Grady, R. Young OC-0076
- 11:25 > Dual energy CT proton stopping power ratio calibration: Validation with animal tissues
Y. Xie (USA), L. Yin, C. Ainsley, J. McDonough, T. Solberg, A. Lin, B.K. Teo OC-0077
- 11:35 > Monte Carlo calculated beam quality correction factors for proton beams
C. Gomà (Switzerland), P. Andreo, J. Sempau OC-0078

■ Proffered Papers

RTT 1: NOVELTIES IN TREATMENT PLANNING

10:45 - 11:45 | ROOM 3

Chair: *B. Kraan (The Netherlands)*

Chair: *S. Johansen (Norway)*

- 10:45 > Automated instead of manual planning for lung SBRT?
A plan comparison based on dose-volume statistics
B. Vanderstraeten (Belgium), B. Goddeeris, C. Derie, K. Vandecasteele, M. Van Eijkeren, L. Paelinck, C. De Wagter, Y. Lievens OC-0079

- 10:55 > In-silico implementation of MRI-60Co based RT: a dosimetrical comparison with rectal cancer (SIMBAD)
E. Placidi, N. Dinapoli, L. Boldrini, G.C. Mattiucci, L. Azario, D. Piccari (Italy), S. Teodoli, M.A. Gambacorta, S. Chiesa, A. Piermattei, V. Valentini OC-0080
- 11:05 > Robust photon versus robust proton therapy planning with a library of plans for cervical cancer
K. Crama (The Netherlands), A. Van de Schoot, J. Visser, A. Bel OC-0081
- 11:15 > Validation of MR based dose calculation of prostate cancer treatments
R.L. Christiansen (Denmark), H.R. Jensen, D. Georg, C. Brink OC-0082
- 11:25 > When using gating in left tangential breast irradiation? A planning decision tool
N. Dinapoli (Italy), D. Piro, M. Bianchi, S. Teodoli, G.C. Mattiucci, L. Azario, A. Martino, F. Marazzi, G. Mantini, V. Valentini OC-0083
- 11:35 > Hybrid RapidArc for breast with locoregional lymph node irradiation spares more normal tissue
E. Bucko (The Netherlands), M. Jeulink, P. Meijnen, B. Slotman, W. Verbakel OC-0084

■ Poster Viewing 2

CLINICAL: HEALTH ECONOMICS, UROLOGY AND BRAIN

10:45 - 11:45 | POSTER AREA

Chair: J.M. Borras (Spain)

Chair: F. Alongi (Italy)

- > The level of innovations routinely implemented in Dutch radiotherapy centers: a cross-sectional study
M. Jacobs (The Netherlands), A. Dekker, L. Boersma, F. Van Merode, G. Bosmans, L. Linden, P. Simons, S. Moorman, P. Lambin PV-0085
- > Clinical implementation of research within a radiotherapy department. A quality indicator?
M. Jacobs (The Netherlands), L. Boersma, F. Van Merode, A. Dekker, F. Verhaegen, L. Linden, S. Moorman, P. Lambin PV-0086
- > Non-publication of Phase-3 clinical trails in radiotherapy
J. Perez-Alija (Spain), P. Gallego PV-0087
- > Rapid changes in brain metastasis during radiosurgical planning - implications for MRI timing
A.L. Salkeld (Australia), W. Wang, N. Nahar, L. Gomes, K. Ng PV-0088

- > CyberKnife for prostate cancer patients – early results of 350 patients irradiation
L. Miszczyk, A. Namysl-Kaletka (Poland), A. Napieralska, G. Wozniak, M. Stapor-Fudzinska, G. Glowacki, K. Grabinska
- > Stereotactic body radiotherapy for localized prostate cancer: a 7-year experience
Y.W. Lin (Taiwan), K.L. Lin, L.C. Lin
- > Early salvage RT for PSA recurrence postprostatectomy improves biochemical progression free survival
A.B. Hopper (USA), A.P.S. Sandhu, J.P. Einck

PV-0089

PV-0090

PV-0091

■ PRESIDENTIAL SYMPOSIUM

12:00 - 12:35 | AUDITORIUM

- 12:05 > Patient centric approach: myth or fact?
Speaker: P. Poortmans (The Netherlands)

SP-0092

■ AWARD LECTURE: EMMANUEL VAN DER SCHUEREN AWARD

12:35 - 13:15 | AUDITORIUM

- 12:35 > Introduction
Chair: V. Valentini (Italy)
- 12:40 > Did I do it right? What was the result? Process and outcomes in radiotherapy
Speaker: A. Barrett (UK)

SP-0093

■ Symposium with proffered papers

HOT TOPICS IN SABR: TIME FOR RANDOMISED CLINICAL TRIALS?

14:30 - 15:45 | ROOM 2

The session will be dedicated to the role of randomised clinical trials in SABR. After reviewing the existing evidenced and lessons learned by David Palma, some biological endpoints will be presented by Martin Brown. Because the results obtained with stereotactic radiosurgery (SRS) and stereotactic ablative radiotherapy (SABR) have been impressive they have raised the question of whether classic radiobiological modeling is appropriate for large doses per fraction. Finally, Marianne Aznar will talk about developments in image guidance, treatment delivery methods (i.e. VMAT, etc...), dose calculation algorithms and their common impact on the development of future clinical trials as well as the issue of common standards in normalisation and reporting of the prescription dose.

Chair: E. Lartigau (France)

Co-chair: R. Ruggieri (Italy)

■ INTERDISCIPLINARY

■ RADIOBIOLOGY

■ CLINICAL

■ BRACHYTHERAPY

■ PHYSICS

■ RTT

■ YOUNG

- 14:30 > Do we need randomised clinical data to justify the use of SABR for primary and oligometastatic cancer?
Speaker: F. McDonald (UK) SP-0094
- 14:50 > Pre-clinical and clinical data on the radiobiological mechanism for the efficacy of SABR
Speaker: M. Brown (USA) SP-0095
- 15:10 > Technical developments in high precision radiotherapy: a new era for clinical SABR trials?
Speaker: M. Aznar (Denmark) SP-0096
- 15:30 > Radiation dose-volume effects for liver SBRT
M. Miften (USA), Y. Vinogradskiy, V. Moiseenko, J. Grimm, E. Yorke, A. Jackson, W.A. Tomé, R. Ten Haken, N. Ohri, A.M. Romero, K.A. Goodman, L.B. Marks, B. Kavanagh, L.A. Dawson OC-0097

Symposium

TUMOUR TARGETING - CONSIDERING NORMAL TISSUE BIOLOGY

14:30 - 15:45 | LONDRA

Stem cells are thought to be major players in the response of normal tissue and tumours to (chemo-) radiation. In this symposium recent developments in the field of (cancer) stem cell science and genetics are combined. Using several techniques such as the stem cell culturing as organoids or basal cell layers derived from biopsies enabled the study the molecular cues involved in the (patient specific) treatment response. Mathematical modelling of signalling network, (epi)genetic changes and response analysis of specific stem/progenitor cells involving known and less well know cues are discussed in the light of potential modification, optimisation and personalisation of radiotherapy.

Chair: R. Coppes (The Netherlands)

Co-chair: M. Mangoni (Italy)

- 14:30 > Organoids, a disease and patient specific in vitro model system
Speaker: R. Vries (The Netherlands) SP-0098
- 14:48 > The role of ATM and p53 in normal tissue radiation response
Speaker: D. Kirsch (USA) SP-0099
- 15:06 > Radiation sensitivity of human skin stem cells: dissecting epigenetic effects of radiation
Speaker: M. Martin (France) SP-0100
- 15:24 > A radiation systems biology view of radiation sensitivity of normal and tumour cells
Speaker: K. Unger (Germany) SP-0101

■ Debate

THIS HOUSE BELIEVES THAT PROGRESS IN THE TREATMENT OF LOCALLY ADVANCED NSCLC WILL COME FROM:

14:30 - 15:45 | AUDITORIUM

The prognosis of locally advanced NSCLC remains poor with the majority of patients failing locally and/or distantly. Evidence supports that improved local tumour control improves survival and this can be improved by the use of advanced radiotherapy techniques and altered fractionation. In the field of systemic treatment, immune checkpoint inhibition and targeted agents, which have changed the treatment paradigm in advanced NSCLC, are being evaluated in locally advanced disease. The speakers will debate which of the two treatment modalities is the most likely to have a significant impact on the outcome of this group of patients.

Chair: C. Faivre-Finn (UK)

Chair: P. Van Houtte (Belgium)

14:30 > Radiation treatment intensification
Speaker: J. Belderbos (The Netherlands)

SP-0102

14:50 > Better systemic therapy
Speaker: J. Van Meerbeeck (Belgium)

SP-0103

15:10 > Rebuttal
Speaker: J Belderbos (The Netherlands)

15:20 > Rebuttal
Speaker: J. Van Meerbeeck (Belgium)

15:30 > Discussion

■ Symposium

ACTIVE SURVEILLANCE FOR LOW RISK PROSTATE CANCER: TO TREAT OR NOT TO TREAT?

14:30 - 15:45 | GIALLA

Chair: A. Bossi (France)

Co-chair: C. Cozzarini (Italy)

14:30 > Does (very) low risk prostate cancer really exist?
Speaker: F. Algaba (Spain)

SP-0104

14:55 > The role of MRI in active surveillance
Speaker: G. Villeirs (Belgium)

SP-0105

15:20 > Active surveillance: challenges and perspectives.
The clinician point of view
Speaker: R. Valdagni (Italy)

SP-0106

■ INTERDISCIPLINARY

■ RADIOBIOLOGY

■ CLINICAL

■ BRACHYTHERAPY

■ PHYSICS

■ RTT

■ YOUNG

■ Symposium

ACHIEVING EXCELLENCE IN IMAGE GUIDED BRACHYTHERAPY

14:30 - 15:45 | ROOM 4

This session will give an overview of the basic concepts of 3D dose planning including imaging, radiobiology and underlying physics including planning algorithms. There will be a focus on the uncertainties in the pathway with particular attention to the training needs for both physicists and clinicians. Tools for training in 3D outlining will be demonstrated and the impact of different methods of teaching explored. The challenge of creating acceptable reference outlines will be considered together with the best metrics for assessing the impact of training on performance.

Chair: P. Hoskin (UK)

Co-chair: A. Vavassori (Italy)

14:30 > Physician training in contouring

Speaker: P. Petric (Qatar)

SP-0107

14:55 > Physicist training in 3D dose planning

Speaker: P. Bownes (UK)

SP-0108

15:20 > New avenues for training with e-learning

Speaker: L.T. Tan (UK)

SP-0109

■ Symposium

IMAGING MARKERS FOR RESPONSE PREDICTION AND ASSESSMENT

14:30 - 15:45 | ROOM 1

This symposium will start with a general introduction to the clinical need of biomarkers for response assessment with an emphasis on current images methods: strengths and limitations. Furthermore, the potential of hybrid imaging using new PET/MRI machines will be discussed. Followed by an upcoming image analysis technique based on standard CT and FDG-PET imaging: radiomics allowing a high throughput image analysis strategy for assessment and prediction of treatment outcome. Illustrated in the context of rectal cancer. Finally some examples will be given for imaging based treatment verification and tumour/normal tissue characterisation using MRI imaging in the setting of stereotactic and proton therapy.

Chair: W. Van Elmpt (The Netherlands)

Co-chair: A.G. Morganti (Italy)

14:30 > Imaging markers for response prediction: the clinical need

Speaker: V. Goh (UK)

SP-0110

14:55 > Response prediction in rectal cancer using PET Radiomics

Speaker: R. Leijenaar (The Netherlands)

SP-0111

15:20 > MRI imaging of irradiated liver tissue for *in vivo* verification in particle therapy

Speaker: C. Richter (Germany)

SP-0112

■ Debate

THERE ARE MANY EXISTING IGRT OPTIONS FOR HIGHLY ACCURATE DOSE DELIVERY. IS THERE A NEED FOR LARGE-SCALE IN-ROOM MR-GUIDANCE?

14:30 - 15:45 | ROOM 500

There is no doubt that the ideal situation for radiotherapy would be a treatment under more or less static conditions in an ideal dosimetric situation with permanent on-line image based control of the position of tumor, organs-at-risk (OAR) and patient surface.

This debate will first outline how close we have already come to this objective with available advanced image guidance strategies and then explore, if/how/where in-room MR-guidance may go beyond current strategies and what requirements must be fulfilled on the way.

Chair: H. Nyström (Sweden)

Chair: B. Heijmen (The Netherlands)

- 14:30 > For the motion
Speaker: F. Lohr (Germany)
- 14:50 > Clinical evidence for in-room MRI guidance
Speaker: P. Keall (Australia)
- 15:10 > For the motion rebuttal
Speaker: F. Lohr (Germany)
- 15:20 > Against the motion rebuttal
Speaker: P. Keall (Australia)
- 15:30 > Discussion

SP-0113

SP-0114

■ Symposium

ADDITIONAL TOOLS FOR CONTOURING

14:30 - 15:45 | ROOM 3

As we find ourselves in the era of advanced imaging and adaptive radiotherapy, novel tools that aim to streamline and improve the accuracy of delineation has become the focus of many recent research efforts. In the pre treatment stage, functional imaging such as PET continues to play a role in target volume delineation as we investigate new tracers beyond FDG and explore the role of the biological target volume. At the treatment stage automated tools for deformable registration, recontouring and class solutions will be central to the success of adaptive radiotherapy in a busy clinical environment. This dynamic session will discuss these technologies as we move closer towards personalised radiotherapy.

Chair: E. Forde (Ireland)

Co-chair: C. Brooks (UK)

■ INTERDISCIPLINARY

■ RADIOBIOLOGY

■ CLINICAL

■ BRACHY THERAPY

■ PHYSICS

■ RTT

■ YOUNG

- 14:30 > Functional and molecular imaging techniques and personalised radiotherapy
Speaker: M. Niyazi (Germany) SP-0115
- 14:55 > General recontouring with deformal registration
Speaker: X. Geets (Belgium) SP-0116
- 15:20 > Clinical application of ATLAS-based autosegmentation for contouring of multiple treatment sites
Speaker: M. Ten Kley (The Netherlands) SP-0117

■ Poster Viewing 3

CLINICAL: GASTROINTESTINAL AND GYNAECOLOGY

14:30 - 15:45 | POSTER AREA

Chair: K. Bujko (Poland)

Chair: G. Macchia (Italy)

- > Prognostic impact of presurgical Ca 19-9 level in pancreatic adenocarcinoma: a pooled analysis.
G.C. Mattiucci (Italy), A. Arcelli, F. Bertini, F.A. Calvo, M. Falconi, A. Farioli, A. Guido, G. Frezza, J.M. Herman, R.C. Miller, V. Picardi, G. Macchia, W. Regine, M. Reni, N. Sharma, A.G. Morganti, V. Valentini PV-0118
- > Pattern of regional recurrence in adenocarcinoma of GEJ: implication for target delineation
J. Zhang (China), J. Jin, X. Wang PV-0119
- > Gastric fundus irradiation increases risk of postoperative anastomotic leakage in esophageal cancer
L. Goense, P.S.N. Van Rossum (The Netherlands), J.P. Ruurda, M. Van Vulpen, G.J. Meijer, R. Van Hillegersberg PV-0120
- > FALCON based clinical target volume delineation to support inter-society rectal cancer guidelines.
M. Gambacorta (Italy), G. Chiloiro, P. Das, K. Haustermans, I. Joye, L. Kachnic, P. Maingon, C. Marijnen, S. Ngan, V. Valentini PV-0121
- > Clinical factors as a selection tool for organ-preserving treatment strategies in rectal cancer
I. Joye, A. Debucquoy, S. Fieuws, A. Wolthuis, A. D'Hoore, K. Haustermans (Belgium) PD-0122

- > Gender and secondary malignancies in rectal cancer patients with and without radiation therapy
R. Warschkow, U. Güller, T. Cerny, B.M. Schmied, L. Plasswilm, P.M. Putora (Switzerland) PD-0123
- > Does daily intake of resistant starch reduce the acute bowel symptoms in pelvic radiotherapy? RCT
B.K. Sasidharan (India), P.N. Viswanathan, S. Prasanna, B. Ramadass, S. Pugazhendhi, B.S. Ramakrishna PD-0124
- > Chemoradiation+surgery vs chemoradiation+BRT in advanced cervical carcinoma: a case-control study
S. Cima (Switzerland), G. Macchia, A. Galuppi, M. Nuzzo, P. De Iaco, F. Deodato, A.M. Perrone, M.C. Valli, A. Richetti, A. Arcelli, F. Bertini, A. Farioli, S. Cammelli, A. Bisceglie, M. Pieri, S.G. Picchi, A. Zamagni, G. Frezza, A.G. Morganti, G. Ferrandina PD-0125

MULTIDISCIPLINARY TUMOUR BOARD:SESSION I: BREAST

14:30 - 15:45 | ISTANBUL

Chair: *A. Kirby (UK)*

ESTRO fellow

Panellist: D. Vordermark (Germany)

Clinical oncologist

Panellist: B. Offersen (Denmark)

Radiologist

Panellist: M. Durando (Italy)

Surgeon

Panellist: R. Audisio (UK)

Joint Symposium

ESTRO-ESR: MR-PET

16:30 - 17:30 | ROOM 2

Advanced radiotherapy recognises a crucial role to modern hybrid imaging techniques, which enrich the morphological tissue analysis with metabolic information. MR-PET imaging represents to date one of the most promising techniques in this scenario, offering the advantages of anatomical detail enhancement, gain of morphological reliability, soft tissue contrast and multiparametric studies together with biological details obtained through the use of specific tracers describing molecular pathways from cell proliferation to hypoxia.

This joint ESTRO-ESR Symposium will highlight the added values and the great potentialities of this hybrid technique with an eye to image segmentation, sub volume definition, planning and patient positioning.

Chair: V. Valentini (Italy)

Chair: K. Riklund (Sweden)

- | | | |
|-------|---|---------|
| 16:30 | > MR-PET for radiation oncology: the imaging perspective
<i>Speaker: K. Riklund (Sweden)</i> | SP-0126 |
| 16:50 | > MR-PET for radiation oncology: the sub-volume opportunities
<i>Speaker: D. Thorwarth (Germany)</i> | SP-0127 |
| 17:10 | > MR-PET for radiation oncology: the implementation issues
<i>Speaker: T. Nyholm (Sweden)</i> | SP-0128 |

■ Proffered Papers

RADIOBIOLOGY 2: INTERPLAY BETWEEN CANCER STEM CELLS, HYPOXIA AND THE RADIATION RESPONSE

16:30 - 17:30 | LONDRA

Chair: N. Gomez-Roman (UK)

Chair: P. Span (The Netherlands)

- | | | |
|-------|---|---------|
| 16:30 | > Nitroglycerin decreases the hypoxic fraction of non-small cell lung cancer lesions
<i>B. Reymen (The Netherlands), C.M.L. Zegers, W. Van Elmpt, F. Mottaghy, A. Windhorst, A. Van Baardwijk, S. Wanders, J. Van Loon, D. De Ruysscher, P. Lambin</i> | OC-0129 |
| 16:40 | > Biomarker-based hypoxia-adapted radiochemotherapy: preclinical study in HPV+/- H&N cancer xenografts
<i>L. Koi (Germany), L. Moebius, C. Weise, C. Erdmann, C. Valentini, M. Schmidt, M. Krause, M. Baumann</i> | OC-0130 |
| 16:50 | > miR-875-5p enhances radiation response of prostate cancer cells via EGFR suppression
<i>R. El Bezawy (Italy), D. Cominetti, P. Gandellini, R. Valdagni, N. Zaffaroni</i> | OC-0131 |
| 17:00 | > FoxO proteins and non-functional p53 determine stemness and radio-sensitivity of GBM-stem cells
<i>E. Firat (Germany), G. Niedermann</i> | OC-0132 |

- 17:10 > Radioresistance of glioblastoma stem-like cells is associated with replication stress
R. Carruthers, S. Ahmed (UK), D. Biasoli, K. Strathdee, E. Hammond, A. Chalmers OC-0133
- 17:20 > Irradiation-induced plasticity of the cancer stem cell population in prostate cancer
C. Peitzsch (Germany), M. Cojoc, L. Hein, M. Baumann, A. Dubrovskaja OC-0134

■ Proffered Papers

CLINICAL 3: LUNG

16:30 - 17:30 | AUDITORIUM

Chair: J. Belderbos (The Netherlands)

Chair: S. Ramella (Italy)

- 16:30 > Can we select stage I NSCLC patients at high risk for early death prior to SBRT treatment?
R. Klement (Germany), I. Grills, J. Belderbos, J.J. Sonke, F. Mantel, A. Hope, M. Johnson, M. Werner-Wasik, M. Guckenberger OC-0135
- 16:40 > Primary Study Endpoint Analysis of NRG Oncology/RTOG 0813 Trial of SBRT for centrally located NSCLC
A. Bezjak (Canada), R. Paulus, L. Gaspar, R.D. Timmerman, W. Straube, W. Ryan, Y.I. Garces, A.T. Pu, A.K. Singh, G.M.M. Videtic, R.C. McGarry, P. Iyengar, J.R. Pantarotto, J.J. Urbanic, A.Y. Sun, M.E. Daly, I.S. Grills, D.P. Normolle, J. Bradley, H. Choy OC-0136
- 16:50 > Tumour size but not location determines survival and control of lung stereotactic body radiotherapy
M. Roach (USA), S. Rehman, T. DeWees, J. Bradley, C. Robinson OC-0137
- 17:00 > Apnea-like suppression of respiratory motion: first clinical evaluation
N. Peguret (Switzerland), M. Ozsahin, C. Beigelman, M. Zeverino, A. Durham, F. Duclos, K. Grant, B. Belmondo, J. Simons, O. Long, R. Moeckli, J. Prior, R. Meuli, J. Bourhis OC-0138
- 17:10 > Expert knowledge vs. data-driven algorithms: Bayesian prediction models for post-radiotherapy dyspnea
T.M. Deist (The Netherlands), A. Jochems, C. Oberije, B. Reymen, K. Vandecasteele, Y. Lievens, R. Wanders, K. Lindberg, D. De Ruysscher, W. Van Elmpt, S. Vinod, A. Dekker, P. Lambin OC-0139

- 17:20 > Management of patients with extensive-stage small-cell lung cancer: A European survey of practice
K. Haslett (UK), D. De Ruysscher, R. Dziadziuszko, M. Guckenberger, C. Le Pechoux, U. Nestle, C. Faivre-Finn

OC-0140

■ Proffered Papers

CLINICAL 4: LATE BREAKING ABSTRACTS

16:30 - 17:30 | GIALLA

*Chair: L. Kepka (Poland)**Chair: U. Nestle (Germany)*

- 16:30 > Does an integrated boost increase acute toxicity in prone hypofractionated breast irradiation?

L. Paelinck, A. Gulyban, F. Lakosi, T. Vercauteren, W. De Gersem, B. Speleers, C. Monten, T. Mulliez, P. Berkovic, A. Van Greveling, P. Coucke, W. De Neve, L. Veldeman (Belgium)

OC-0141

- 16:40 > Hypo- vs normofractionated radiation of early breast cancer in the randomised DBCG HYPO trial

B.V. Offersen (Denmark), E.H. Jacobsen, M.H. Nielsen, M. Krause, L. Stenbygaard, I. Mjaaland, A. Schreiber, U.M. Kasti, M.B. Jensen, J. Overgaard

OC-0142

- 16:50 > A Bayesian randomisation trial of IMRT vs. PSPT for locally advanced non-small cell lung carcinoma

Z. Liao (USA), J. Lee, R. Komaki, D. Gomez, M. O'Reilly, P. Allen, F. Fossella, J. Heymach, N. Choi, T. Delaney, S. Hahn, C. Lu, J. Cox, R. Mohan

OC-0143

- 17:00 > Maximum response and PCI are important prognostic factors in LD SCLC patients staged with cMRI

C. Eze (Germany), O. Roengvoraphoj, M. Niyazi, S. Gerum, G. Hildebrandt, R. Fietkau, C. Belka, F. Manapov

OC-0144

- 17:10 > Preoperative radiotherapy with an integrated boost compared to chemoradiotherapy for rectal cancer

M. De Ridder (Belgium), A. De Paoli, E. Delmastro, F. Munoz, S. Vagge, D. Norkus, H. Everaert, G. Tabaro, E. Garibaldi, U. Ricardi, E. Borsatti, T. Gevaert, P. Gabriele, G. Boz, A. Sermeus, M.A. MahéB. Engels

OC-0145

- 17:20 > The PROS-IT CNR study: comorbidities and medications at the time of diagnosis of prostate cancer
S. Magrini (Italy), U. Ricardi, F. Bertoni, R. Corvò, E. Russi, R. Santoni, W. Artibani, P. Bassi, S. Bracarda, G. Conti, M. Gacci, P. Graziotti, S. Maggi, V. Mirone, R. Montironi, G. Muto, S. Pecoraro, A. Porreca, A. Tubaro, V. Zagonel, F. Zattoni, G. Crepaldi

OC-0146

■ Proffered Papers

BRACHYTHERAPY 2: EYE GI

16:30 - 17:30 | ROOM 4

Chair: J. Hannoun-Levi (France)

Chair: L. Tagliaferri (Italy)

- 16:30 > Organ preservation in T2 T3 NX M0 rectal. French results using the new Papillon 50TM machine
J.P. Gérard (France), A. Frin, J. Doyen, N. Barbet, R. Coquard, K. Benezery, S. Marcié

OC-0147

- 16:40 > Evaluation of EBRT and HDRBT for inoperable rectal cancer patients: an update of the HERBERT study
E.C. Rijkmans (The Netherlands), L.A. Velema, A. Cats, K.J. Neelis, Y.M. Van der Linden, R.A. Nout, B. Van Triest, J. Buijsen, T. Rozema, M. Ketelaars, C.A.M. Marijnen

OC-0148

- 16:50 > Patterns of relapse in rectal cancer patients following pre-operative high dose rate brachytherapy
T. Vuong (Canada), F. Desjardins, V. Pelsser, T. Niazi, A. Robillard, M. Leventhal

OC-0149

- 17:00 > Intraluminal brachytherapy in unresectable biliary carcinoma with malignant biliary obstruction
N. Rastogi (India), V.A. Saraswat, S.S. Baijal

OC-0150

- 17:10 > Radiation induced toxicity and tumour control in pts treated for uveal melanoma with ru-106 plaques
C.A. Espensen (Denmark), L.S. Fog, M.C. Aznar, L. Specht, J.F. Kiilgaard

OC-0151

- 17:20 > Novel software modules for treatment planning of 106Ru eye plaque brachytherapy
G. Heilemann (Austria), L. Fetty, I. Birlescu, M. Blaickner, N. Nesvacil, D. Georg

OC-0152

■ INTERDISCIPLINARY

■ RADIOBIOLOGY

■ CLINICAL

■ BRACHYTHERAPY

■ PHYSICS

■ RTT

■ YOUNG

■ Proffered Papers

PHYSICS 3: ANATOMICAL CT AND MR IMAGING FOR TREATMENT PREPARATION

16:30 - 17:30 | ROOM 1

Chair: J. Korhonen (Finland)

Chair: V. Landoni (Italy)

- 16:30 > Dual energy CT and iterative metal artefact reduction for accurate tumour delineation
D. Kovacs (Denmark), L. Rechner, J. Bangsgaard, A. Berthelsen, J. Costa, J. Friborg, G. Persson, L. Specht, I. Vogelius, M. Aznar OC-0153
- 16:40 > Clinical use of dual-energy CT for proton treatment planning to reduce CT-based range uncertainties
P. Wohlfahrt (Germany), C. Möhler, A. Jakobi, M. Baumann, W. Enghardt, M. Krause, S. Greulich, C. Richter OC-0154
- 16:50 > MR-guided multi-atlas based synthetic CT for MR-only radiotherapy of head and neck cancer patients
R. Farjam (USA), N. Tyagi, H. Veeraraghavan, A. Apte, K. Zakian, M. Hunt, J. Deasy OC-0155
- 17:00 > MRI only prostate radiotherapy using synthetic CT images
E. Persson (Sweden), F. Nordström, C. Siversson, C. Ceberg OC-0156
- 17:10 > Prostate fiducial markers detection with the use of multiparametric-MRI
C.D. Fernandes (The Netherlands), C. Dinh, L.C. Ter Beek, M. Steggerda, M. Smolic, L.D. Van Buuren, P.J. Van Houdt, U.A. Van der Heide OC-0157
- 17:20 > Impact of breathing guidance and prospective gating on 4DCT image quality: a digital phantom study
S. Pollock (Australia), J. Kipritidis, D. Lee, K. Bernatowicz, P. Keall OC-0158

■ Proffered Papers

PHYSICS 4: INTER-FRACTION MOTION MANAGEMENT I

16:30 - 17:30 | ROOM 500

Chair: M. van Herk (UK)

Chair: M. Zani (Italy)

- 16:30 > X-ray tube current modulation with dynamic blade collimation for CBCT guidance
D. Parsons (Canada), J. Robar OC-0159

- 16:40 > Growth and oedema related shifts of brain metastasis treated with stereotactic radiosurgery
K. De Vries (The Netherlands), M. Beerendonk, L. Dewit, W. Booger, D. Brandsma, A. Van Mourik, G. Borst OC-0160
- 16:50 > Renal and diaphragmatic interfractional motion in children and adults: is there a difference?
I.W.E.M. Van Dijk (The Netherlands), S.C. Huijskens, M.A.J. De Jong, J. Visser, R. D'Ávila Fajardo, C.R.N. Rasch, T. Alderliesten, A. Bel OC-0161
- 17:00 > Liquid fiducial markers' performance in non small cell lung cancer during radiotherapy
J. Scherman Rydhög (Denmark), S. Riisgaard Mortensen, K. Richter Larsen, P. Clementsen, R. Irming Jølck, M. Josipovic, M. Aznar, G. Persson, T.L. Andresen, L. Specht, P. Munck af Rosenschöld OC-0162
- 17:10 > Robustness of proton RT with different beam angles towards interfractional motion in the pelvis
A. Andersen (Denmark), O. Casares-Magaz, J. Petersen, J. Toftegaard, L. Bentzen, S. Thörnqvist, L. Muren OC-0163
- 17:20 > Integrate range shifting in immobilisation for proton therapy: 3D printed materials characterisation
S. Michiels (Department of Oncology), N. Lammens, A. D'Hollander, K. Poels, W. Crijns, G. Defraene, S. Nuyts, K. Haustermans, T. Depuydt OC-0164

■ Proffered Papers

RTT 2: IMPROVING QUALITY FOR BREAST CANCER TREATMENTS

16:30 - 17:30 | ROOM 3

Chair: *L. Van den Berghe (Belgium)*

Chair: *P. Simons (The Netherlands)*

- 16:30 > Deep inspiration breath hold - can it be detrimental to the heart?
B. Done (Australia), A. Michalski, A. Windsor OC-0165
- 16:40 > The influence of tumour location in the breast on boost modality selection.
E. Reilly (UK), C. Baker, M. Flynn, H.M.O. Mayles, A.J. Reilly OC-0166
- 16:50 > Advanced left-side breast cancer: does VMAT allow doses of organs at risk to be reduced?
P.C. Yu (Taiwan), H.H. Nien, C.J. Wu, Y.L. Tsai OC-0167

- 17:00 > A simple visual test is adequate for testing vmDIBH reproducibility in locoregional breast cancer
L.A. Den Otter (The Netherlands), T.T. Nuver, M. Boerhof, H.H. Kolkman-Nijland, W.J. Schoevers, K. Muller, A.W.H. Minken OC-0168
- 17:10 > Patient information through group sessions to improve knowledge regarding breast cancer radiotherapy
M.T.A. Tinggaard Axelsen (Denmark), M.J. Jensen, B.H. Haislund, H.M.N. Melgaard Nielsen OC-0169
- 17:20 > Detection of setup errors with body surface laser scanning system for whole breast irradiation
P. Jiang (China), Z. Liu, J. Wang, S. Zhou, J. Li, H. Sun, S. Jiang OC-0170

■ Poster Viewing:4

PHYSICS: TREATMENT PLANNING: APPLICATIONS III

16:30 - 17:30 | POSTER AREA

Chair: S. Petit (The Netherlands)

Chair: M. Söhn (Germany)

- > Can protons reduce bone marrow toxicity in definitive chemoradiotherapy for oesophageal tumours?
S. Warren (UK), C. Hurt, T. Crosby, M. Partridge, M. Hawkins PV-0171
- > Selecting patients with lung cancer for proton therapy should be based on multivariable NTCP models.
M.C.A. Kramer (The Netherlands), A.G.H. Niezink, E.W. Korevaar, R.G.J. Kierkels, H.P. Van der Laan, A. Van der Schaaf, V.C. Hamming, P. Kalk, J.A. Langendijk, J. Widder PV-0172
- > Dosimetric assessment of three-source Co-60 and Linac-based lung SBRT for feasibility of MR-IGRT
N. Dogan (USA), N. Lamichhane, A. Ishkanian PV-0173
- > Experimental verification of 4D Monte Carlo calculations of dose delivered to a moving anatomy
L. Cygler (Canada), S. Gholampourkashi, J. Belec, M. Vujcic, E. Heath PV-0174
- > Knowledge-based DVH predictions for automated individualised treatment plan quality assurance
J. Tol (The Netherlands), M. Dahele, A. Delaney, B. Slotman, W. Verbakel PV-0175
- > Evaluation of biologically effective dose in stereotactic radiotherapy for prostate cancer
T. Viren (Finland), T. Lahtinen, J. Hopewell, J. Seppälä PV-0176

■ Honorary Members Lecture

17:45 - 18:30 | AUDITORIUM

Chair: P. Poortmans (The Netherlands)

Chair: V. Valentini (Italy)

- | | | | |
|-------|---|---|---------|
| 17:45 | > | Evidence-based education: Radiation Oncology's forgotten foundation?
<i>Speaker: S. Turner (Australia)</i> | SP-0177 |
| 18:00 | > | The future of surgical oncology
<i>Speaker: R. Audisio (UK)</i> | SP-0178 |
| 18:15 | > | Imaging in lung cancer radiotherapy: beyond the "pictures"
<i>Speaker: L. Bonomo (Italy)</i> | SP-0179 |

■ Teaching Lecture

TRADE OFF BETWEEN STANDARDISATION AND INDIVIDUALISATION

08:00 - 08:40 | ROOM 2

Chair: P. Scalliet (Belgium)

- 08:00 > Trade off between standardisation and individualisation
Speaker: Y. Lievens (Belgium)

SP-0180

■ Teaching Lecture

DNA REPAIR AND RESPONSE FOR BEGINNERS

08:00 - 08:40 | LONDRA

Chair: A. Kiltie (UK)

- 08:00 > DNA repair and response for beginners
Speaker: K. Borgmann (Germany)

SP-0181

■ Teaching Lecture

ANAL CANCER: CURRENT GUIDELINES AND REMAINING QUESTIONS

08:00 - 08:40 | AUDITORIUM

Chair: K. Haustermans (Belgium)

- 08:00 > Anal cancer: current guidelines and remaining questions
Speaker: D. Sebag-Montefiore (UK)

SP-0182

■ Teaching Lecture

RADIOTHERAPY AND IMMUNE-THERAPY, BIOLOGICAL BASIS AND POTENTIAL FOR FUTURE CLINICAL TRIALS

08:00 - 08:40 | GIALLA

Chair: P. Ost (Belgium)

- 08:00 > Radiotherapy and immune-therapy, biological basis and potential for future clinical trials
Speaker: E. Deutsch (France)

SP-0183

■ **Teaching Lecture**

UNDERESTIMATED IMPORTANCE OF INTRALUMINAL BRACHYTHERAPY: BRONCHUS, OESOPHAGEAL, ANORECTAL AND HEPATOBILIARY DUCT CANCER

08:00 - 08:40 | Room 4

Chair: L.U. Fokdal (Denmark)

- 08:00 > Underestimated importance of intraluminal brachytherapy: bronchus, oesophageal, anorectal and hepatobiliary duct cancer
Speaker: J. Skowronek (Poland)

SP-0184

■ **Teaching Lecture**

BIG DATA IN RADIOTHERAPY: TECHNOLOGY, CHALLENGES AND OPPORTUNITIES

08:00 - 08:40 | ROOM 1

Chair: C. Hurkmans (The Netherlands)

- 08:00 > Big data in radiotherapy: technology, challenges and opportunities
Speaker: A. Dekker (The Netherlands)

SP-0185

■ **Teaching Lecture**

THE ROLE OF DOSIMETRY AUDIT IN SAFETY, QUALITY AND BEST PRACTICE FOR EXTERNAL BEAM AND BRACHYTHERAPY

08:00 - 08:40 | ROOM 500

Chair: R. Garcia (France)

- 08:00 > The role of dosimetry audit in safety, quality and best practice for external beam and brachytherapy
Speaker: C. Clark (UK)

SP-0186

- 08:20 > The role of dosimetry audit in safety, quality and best practice for external beam and brachytherapy
Speaker: A. Palmer (UK)

SP-0187

■ **Teaching Lecture**

GENERAL INTRODUCTION TO HEAD AND NECK RADIOTHERAPY

08:00 - 08:40 | ROOM 3

Chair: M. Coffey (Ireland)

- 08:00 > General introduction to head and neck radiotherapy
Speaker: V. Grégoire (Belgium)

SP-0188

■ INTERDISCIPLINARY

■ RADIOBIOLOGY

■ CLINICAL

■ BRACHYTHERAPY

■ PHYSICS

■ RTT

■ YOUNG

■ Teaching Lecture

E-LEARNING FOR PROFESSIONALS IN RADIATION ONCOLOGY: WHAT, WHY AND HOW?

08:00 - 08:40 | MADRID

Chair: C. Belka (Germany)

- 08:00 > e-Learning for Professionals in Radiation Oncology:
What, Why and How?
Speaker: A. Berlanga Flores (The Netherlands)

SP-0189

■ Symposium with Proffered Papers

QUALITY BEYOND ACCURACY: ARE WE FAILING TO SEE THE FOREST FOR THE TREES?

08:45 - 10:00 | ROOM 2

The rapid technological advances in radiotherapy have led to an increased focus on accuracy, often, but not always, as a tool to obtain quality. In this symposium, Neil Burnet will review the clinical impact (or lack thereof) of increased accuracy in treatment delivery. Severine Cucchiario will try to answer a key question: what is quality from the patients' perspective? What are their needs and expectations? Finally, Håkan Nyström will discuss the role of the medical physicist in finding the optimal balance between safety and quality, within a multidisciplinary strategy.

Chair: M. Aznar (Denmark)

Co-chair: S. Magrini (Italy)

- 08:45 > Has higher accuracy in treatment delivery translated into noticeable improvements in clinical outcomes?
Speaker: N. Burnet (UK)
- 09:05 > The patient: an active partner in quality and safety process in radiotherapy
Speaker: S. Cucchiario (Belgium)
- 09:25 > Beyond accuracy: how can medical physics help improve treatment quality?
Speaker: H. Nyström (Sweden)
- 09:45 > Evaluation of models for plan QA using fully automated Pareto-optimal plans for prostate patients
Speakers: Y. Wang (The Netherlands), S. Breedveld, B. Heijmen, S.F. Petit

SP-0190

SP-0191

SP-0192

OC-0193

Symposium

TARGETING DNA REPAIR / DDR PRE-CLINICAL EVIDENCE

08:45 - 10:00 | LONDRA

Chair: C. Vens (*The Netherlands*)

Co-chair: M.F. Osti (*Italy*)

- 08:45 > Tumour-specific radiosensitisation by ATR inhibitors
Speaker: T. Brunner (*Germany*) SP-0194
- 09:10 > Inhibition of ATR kinase activity for the treatment of lung cancer
Speaker: C. Bakkenist (*USA*) SP-0195
- 09:35 > Realising the full potential of DNA damage response inhibition in the treatment of cancer
Speaker: S. Galbraith (*UK*) SP-0196

Symposium

NEW APPROACHES IN RECTAL CANCER

08:45 - 10:00 | AUDITORIUM

Chair: TBC

Co-chair: C. Aristei (*Italy*)

- 08:45 > Consequences of bowel cancer screening programmes
Speaker: M. Van Leerdam (*The Netherlands*) SP-0197
- 09:10 > The way forward in organ preservation strategies for rectal cancer
Speaker: S. Bach (*UK*) SP-0198
- 09:35 > How to delineate the CTV for rectal cancer? An international consensus
Speaker: V. Valentini (*Italy*) SP-0199

Symposium

CHANGING PARADIGM IN THE MANAGEMENT OF KIDNEY CANCER

08:45 - 10:00 | GIALLA

Chair: O. Chapet (*France*)

Co-chair: G. Frezza (*Italy*)

- 08:45 > Partial nephrectomy: indication and results
Speaker: P. Gontero (*Italy*) SP-0200
- 09:10 > Stereotactic radiotherapy for renal cell carcinoma: the hidden treasure or the forbidden kingdom
Speaker: G. De Meerleer (*Belgium*) SP-0201

09:35 > Ablative treatment for renal cancer

Speaker: H. Baumert (France)

SP-0202

■ Symposium

MODERN TECHNIQUES FOR OLD INDICATIONS

08:45 - 10:00 | ROOM 4

Brachytherapy can be considered as an "old" treatment for cancer. In the course of decennia brachytherapy has evolved for which new and modern techniques can be used for old indications. New developments are underway for robotic prostate implantations. Bladder implantations are traditionally performed by a laparotomy approach, but laparoscopic implantations can be performed nowadays. Head-and-neck brachytherapy has evolved from low-dose rate brachytherapy to stepping source techniques allowing for dose distribution optimisation. This development has stimulated further developments in treatment planning and imaging. The economic aspects of modern brachytherapy will be addressed. Vaginal cancer is a rare disease, reason why developments in this field are not so fast compared to other gynecologic malignancies. To introduce image-guided brachytherapy for vaginal cancer a new concept should be developed with a new or adapted definitions for target volumes, dose prescription, dose reporting, etc. This symposium illustrates the development of an "old" treatment to modern standards, but also the possible drawbacks and uncertainties of such development.

Chair: B. Pieters (The Netherlands)

Co-chair: P. Muto (Italy)

08:45 > Robotic surgery and brachytherapy

Speaker: B. Pieters (The Netherlands)

SP-0203

09:10 > New techniques in brachytherapy for head and neck

Speaker: G. Kovács (Germany)

SP-0204

09:35 > Image guided brachytherapy in vaginal cancer

Speaker: L.U. Fokdal (Denmark)

SP-0205

■ Symposium

QUANTITATIVE IMAGING TO INDIVIDUALISE RADIOTHERAPY

08:45 - 10:00 | ROOM 1

Imaging is nowadays an integral part of radiotherapy. Still, quantitative imaging providing measurable features reflecting tissue function and biology, of high relevance for radiotherapy, is still not in extensive use. The symposium addresses current developments in imaging, quantification and image-based applications. Further aspects to be covered are standardisation of image acquisition and analysis. Examples of quantification in tumour and normal tissues will be given, and correlations with underlying pathology elucidated. Also, intra-tumour heterogeneity is addressed alongside image-based tumour control probability modelling with applications in dose painting.

Chair: E. Malinen (Norway)

Co-chair: C. Cavedon (Italy)

- 08:45 > Tissue characterisation using quantitative radiomics
Speaker: W. Van Elmpt (The Netherlands) SP-0206
- 09:10 > Image-based radiobiological tumour control probability modelling
Speaker: E. Malinen (Norway) SP-0207
- 09:35 > Validation of imaging with histology: implications for dose prescriptions
Speaker: G. Ghobadi (The Netherlands) SP-0208

■ Proffered Papers

PHYSICS 5: INTRA-FRACTION MOTION MANAGEMENT I

08:45 - 10:00 | ROOM 500

Chair: T. Depuydt (Belgium)

Chair: M. Paiusco (Italy)

- 08:45 > Real-time liver motion monitoring on conventional linac by external surrogate and sparse kV imaging
L. Bertholet (Denmark), E. Worm, R. Hansen, M. Høyer, P. Poulsen OC-0209
- 08:55 > Motion management for partial arc VMAT treatments using intra-fractional 2D/3D registration
H. Furtado, Y. Seppenwoolde (Austria), E. Steiner, M. Bsteh, W. Birkfellner, D. Georg OC-0210
- 09:05 > Real-time MRI-guided radiotherapy for pancreatic cancer
S.A. Rosenberg (USA), A. Wojcieszynski, C. Hullett, M. Geurts, S.J. Lubner, N.K. LoConte, D.A. Deming, D.L. Mulkerin, C.S. Cho, S.M. Weber, E. Winslow, K.A. Bradley, J. Bayouth, P.M. Harari, M.F. Bassetti OC-0211
- 09:15 > Liver motion tracking using optical flow cine-MRI registration
M. Seregni (Italy), C. Paganelli, P. Summers, M. Bellomi, G. Baroni, M. Riboldi OC-0212
- 09:25 > Towards on-line sub-mm and sub-second positional verification during stereotactic spine radiotherapy
C. Hazelaar (The Netherlands), M. Dahele, B. Slotman, W. Verbakel OC-0213
- 09:35 > Hybrid MLC and couch tracking
L. Toftgaard (Denmark), R. Hansen, K. Macek, P.R. Poulsen OC-0214
- 09:45 > Mapping of breathing and cardiac induced motion of lymph node targets in lung cancer patients
M.L. Schmidt (Denmark), L. Hoffmann, M. Knap, T.R. Rasmussen, B.H. Folkersen, J. Toftgaard, D.S. Møller, P.R. Poulsen OC-0215

■ INTERDISCIPLINARY ■ RADIOBIOLOGY ■ CLINICAL ■ BRACHYTHERAPY ■ PHYSICS ■ RTT ■ YOUNG

■ Symposium

HEAD AND NECK: REDUCTION OF MARGINS AND SIDE EFFECTS

08:45 - 10:00 | ROOM 3

This session will focus on the reduction of margins in radiotherapy and their impact on late effects. First, the contouring of organs at risk in the head and neck will be addressed including how differences in delineation can impact on dosimetric analysis and should therefore be guideline-based. Second, an overview of the recent ESTRO guidelines published to assist RTTs in positioning, immobilisation and patient verification for head and neck cancer patients will be given. The final presentation in this session will focus on late effects for patients following radiotherapy and discuss the multidimensional consequences of treatment in every day life.

Chair: M. Leech (Ireland)

Co-chair: G. Petrilli (Italy)

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| 08:45 | > | Contouring of normal tissues in head and neck radiotherapy
<i>Speaker: S. Hol (The Netherlands)</i> | SP-0216 |
| 09:10 | > | The ESTRO perspective - a guideline for positioning of head and neck patients
<i>Speaker: M. Mast (The Netherlands)</i> | SP-0217 |
| 09:35 | > | Late effects in patients treated for head and neck cancer
<i>Speaker: K. Henneberg (Denmark)</i> | SP-0218 |

■ Symposium

THE FUTURE OF RADIATION ONCOLOGY PUBLISHING: VIEWS THROUGH THE RED AND GREEN TELESCOPES

08:45 - 10:00 | MADRID

Chair: P. Mancosu (Italy)

Chair: M. Schmid (Austria)

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|-------|---|--|---------|
| 08:45 | > | <i>Green Journal</i>
<i>Speaker: J. Overgaard (Denmark)</i> | SP-0219 |
| 09:10 | > | Publishing the science of radiation oncology: the perspective of the <i>Red Journal's</i> editor
<i>Speaker: A. Zietman (USA)</i> | SP-0220 |
| 09:35 | > | How to do a good manuscript review
<i>Speaker: L.P. Muren (Denmark)</i> | SP-0221 |

Poster Viewing 5

RTT

08:45 - 10:00 | POSTER AREA

Chair: *M. Coffey (Ireland)*

Chair: *A. Kostovski (Bosnia and Herzegovina)*

- > Enhancing safety and quality of the radiotherapy process using a multidisciplinary end-to-end review
M. Albers (The Netherlands), J. Stam, T. Janssen, A. Van Mourik, A. Van Giersbergen, C. Van Vliet-Vroegindeweij

PV-0222
- > Accuracy of 2D angiogram to 3D MRI registration for frameless stereotactic targeting of brain AVM
I.T. Kuijper (The Netherlands), O. Hertgers, J.P. Cuijpers, F.J. Lagerwaard

PV-0223
- > To be greeted as a human being - A meta-synthesis of cancer patients' experiences of radiotherapy
S. Petri (Denmark)

PV-0224
- > Investigating optimal modality for boost treatment of left breast with deep inspiration breath hold
A. Sen, A. Michalski, B. Done (Australia), A. Windsor

PV-0225
- > Pattern of relapse of glioblastoma treated with Stupp protocol: could a margin reduction be proposed?
S. Pedretti (Italy), M. Buglione, P. Borghetti, L. Costa, L. Triggiani, L. Pegurri, P. Ghirardelli, F. Foscarini, S. Pandini, L. Spiazzi, G. Tesini, C. Uccelli, F. Saiani, S. Magrini

PV-0226
- > Radiotherapy in elderly patients with lung cancer. Performance status and fractionation analysis
J.L. Monroy Anton (Spain), V. Sanz Ballester, R. Gironés Sarrió, C. Gaspar Martinez, M. Soler Tortosa, A. Navarro Bergada, M. Estornell Gualde

PV-0227
- > Size and impact of intra-fractional changes in baseline shift during lung SBRT
M. Kamphuis (The Netherlands), M.A.J. De Jong, E.M. Dieleman, A. Bel, N. Van Wieringen

PV-0228
- > IGRT for pediatric patients: How much can we reduce the dose?
L. Johansen (Denmark), T.H. Larsen, M. Aznar, B. Smulders

PV-0229

- > Risk assessment of solid secondary malignancies in childhood Hodgkin Lymphoma after radiotherapy
G. Zanella, M. Mascarin (Italy), A. Drigo, A. Pusiol, E.C. Fuga, F.M. Giugliano, A. Rosolen, M.G. Trovò

PV-0230

■ Symposium

QA IN CLINICAL TRIALS: PROCESSES, IMPACT AND FUTURE PERSPECTIVES

10:45 - 11:45 | ROOM 2

Clinical trials traditionally form the basis on which evidence-based guidelines are made. Therefore the quality of the data should be closely monitored. Quality Assurance requirements for every step of the process of trial preparation, conduct and analysis will be presented and illustrated using several practical examples on how protocol deviations led to jeopardising significant investments in terms of manpower and money. Recent developments towards intensive international collaboration across different trial organisations will contribute to the streamlining of this process. Ultimately, effective QA management in clinical trials will be of benefit of all patients whether they participate or not in clinical trials.

Chair: *P. Poortmans (The Netherlands)*

Co-chair: *N. Romeo (Italy)*

- 10:45 > How effective is current clinical trial QA?
Speaker: E. Miles (UK)
- 11:05 > How does QA impact on clinical outcomes?
Speaker: D.C. Weber (Switzerland)
- 11:25 > What will we need for future RTQA in clinical trials?
Speaker: C. Hurkmans (The Netherlands)

SP-0231

SP-0232

SP-0233

■ Proffered Papers

RADIOBIOLOGY 3: NOVEL TARGETING APPROACHES IN COMBINATION WITH RADIATION

10:45 - 11:45 | LONDRA

Chair: *G. Higgins (UK)*

Chair: *M. Verheij (The Netherlands)*

- 10:45 > Radiotherapy and L19-IL2: perfect match for an abscopal effect with long-lasting memory
N.H. Rekers (The Netherlands), A. Yaromina, N.G. Lieuwes, R. Biemans, W.T.V. Germeraad, D. Neri, L. Dubois, P. Lambin
- 10:55 > Enhancing stereotactic radiation schedules using the vascular disrupting agent OXi4503
M.R. Horsman (Denmark), T.R. Wittenborn

OC-0234

OC-0235

- 11:05 > DTP-006: a novel, orally bioavailable hypoxia-activated prodrug
R. Niemans (The Netherlands), *A. Yaromina*, *J. Theys*, *A. Ashoorzadeh*,
R. Anderson, *M. Bull*, *C. Guise*, *H.L. Hsu*, *M. Abbattista*, *A. Mowday*,
A.V. Patterson, *J.B. Smaill*, *D.F. Ackerley*, *L. Dubois*, *P. Lambin* OC-0236
- 11:15 > Adding Notch inhibition increases efficacy of standard of care treatment
in glioblastoma
S. Yahyanejad, *H. King*, *V. Iglesias*, *P. Granton*, *L. Barbeau*, *S. Van Hoof*,
A. Groot, *R. Habets*, *J. Prickaerts*, *A. Chalmers*, *J. Theys* (The Netherlands),
S. Short, *F. Verhaegen*, *M. Vooijs* OC-0237
- 11:25 > Akt1 facilitates DNA double-strand breaks repair through a direct
physical interaction with DNA-PKcs
M. Toulany (Germany), *J. Maier*, *U. Rothbauer*, *H.P. Rodemann* OC-0238

■ Proffered Papers

CLINICAL 5: UPPER AND LOWER GI

10:45 - 11:45 | AUDITORIUM

Chair: *D. Sebag-Montefiore* (UK)

Chair: *G. Mantello* (Italy)

- 10:45 > Survival of clinical stage I-III rectal cancer patients: a population-based
comparison
I. Joye, *G. Silversmit*, *E. Van Eycken*, *A. Debucquoy*, *T. Vandendael*,
F. Penninckx, *K. Haustermans* (Belgium) OC-0239
- 10:55 > Lumbarsacral bone marrow modeling of acute hematological toxicity in
chemoradiation for anal cancer
P. Franco (Italy), *F. Arcadipane*, *R. Ragona*, *M. Mistrangelo*, *P. Cassoni*,
J. Di Muzio, *N. Rondi*, *M. Morino*, *P. Racca*, *U. Ricardi* OC-0240
- 11:05 > MR radiomics predicting complete response in radiochemotherapy
(RTCT) of rectal cancer (LARC)
N. Dinapoli (Italy), *B. Barbaro*, *R. Gatta*, *G. Chiloiro*, *C. Casà*,
C. Masciocchi, *A. Damiani*, *L. Boldrini*, *M.A. Gambacorta*, *M. Di Matteo*,
G.C. Mattiucci, *M. Balducci*, *L. Bonomo*, *V. Valentini* OC-0241
- 11:15 > Follow-up time and prediction model performance in a pooled dataset
of rectal cancer trials
J. Van Soest (The Netherlands), *E. Meldolesi*, *A. Damiani*, *N. Dinapoli*,
J.P. Gerard, *C. Van de Velde*, *C. Rödel*, *K. Bujko*, *A. Sainato*,
R. Glynne-Jones, *P. Lambin*, *A. Dekker*, *V. Valentini* OC-0242

- 11:25 > Randomised trial on preoperative platin-based radiochemotherapy in rectal cancer: 10-years analysis
M. Gambacorta (Italy), F. Cellini, M. Colangione, M. Lupattelli, V. Lancellotta, D. Genovesi, M. Cosimelli, V. Picardi, M. Osti, M. Portaluri, F. Tramacere, E. Maranzano, G. Mantello, V. Valentini OC-0243
- 11:35 > Similar quality of life after short-course radiation versus chemoradiation in rectal cancer patients
A.M. Couwenberg (The Netherlands), J.P.M. Burbach, M. Van Vulpen, M.P.W. Intven, O. Reerink, W.M.U. Van Grevenstein, M. Koopman, H.M. Verkooyen OC-0244

■ Proffered Papers

CLINICAL 6: HADRON THERAPY

10:45 - 11:45 | GIALLA

Chair: M. Krause (Germany)

Chair: S. Combs (Germany)

- 10:45 > Protontherapy for uveal melanomas of temporal superior
S. Lanteri (France), C. Maschi, J. Herault, G. Angellier, M. Peyrichon, S. Baillif, J. Thariat, J. Caujolle OC-0245
- 10:55 > Visual outcomes of parapapillary uveal melanomas following proton beam therapy
J. Thariat (France), J. Grange, C. Mosci, L. Rosier, C. Maschi, F. Lanza, A. Nguyen, F. Jaspert, F. Bacin, M. Bonnin, D. Gaucher, W. Sauerwein, G. Angellier, M. Peyrichon, J. Herault, J. Caujolle OC-0246
- 11:05 > Carbon ion radiotherapy for adenoid cystic carcinomas invading the skull base
A. Hasegawa (Japan), M. Koto, R. Takagi, K. Naganawa, H. Ikawa, H. Tsuji, T. Kamada OC-0247
- 11:15 > Proton Beam Therapy in childhood - First 2-years of practice results from the WPE
A.L. Mazhari, S. Schulze Schleithoff, F. Guntrum (Germany), C. Plass, M. Stikkan-Verfürth, J. Lambert, C. Blase, G. Fleischhack, M. Christiaens, B. Timmermann OC-0248
- 11:25 > Five-year clinical outcomes after dose-escalated image-guided proton therapy for prostate cancer
C. Bryant (USA), W. Mendenhall, B. Hoppe, R. Henderson, R. Nichols, C. Morris, C. Williams, Z. Su, Z. Li, N. Mendenhall OC-0249

- 11:35 > Hadrontherapy as re-irradiation using active beam delivery at CNAO
E. Ciurlia (Italy), M. Bonora, P. Fossati, V. Vitolo, A. Iannalfo, M. Fiore, B. Vischioni, A. Facchetti, A. Hasegawa, F. Valvo, M. Krengli, R. Orecchia

OC-0250

■ Proffered Papers

BRACHYTHERAPY 3: DETECTORS AND DOSE VERIFICATION

10:45 - 11:45 | ROOM 4

Chair: *T.P. Hellebust (Norway)*

Chair: *N. Nesvacil (Austria)*

- 10:45 > Electromagnetic tracking for error detection in interstitial brachytherapy
M. Kellermeier, D. Elz, V. Strnad, C. Bert (Germany)

OC-0251

- 10:55 > BrachyView: A novel technique for seed localisation and real-time quality assurance
S. Alnaghy (Australia), M. Petasecca, M. Safavi-Naeini, J.A. Bucci, D.L. Cutajar, J. Jakubek, S. Pospisil, M.L.F. Lerch, A.B. Rosenfeld

OC-0252

- 11:05 > A high sensitivity plastic scintillation detector for in vivo dosimetry of LDR brachytherapy
E. Therriault-Proulx (USA), L. Beaulieu, S. Beddar

OC-0253

- 11:15 > MR compatibility of fiber optic sensing for real-time needle tracking
M. Borot de Battisti (The Netherlands), B. Denise de Senneville, M. Maenhout, G. Hautvast, D. Binnekamp, J.J.W. Legendijk, M. Van Vulpen, M.A. Moerland

OC-0254

- 11:25 > Correction function for MOSkin readings in realtime in vivo dosimetry in HDR prostate brachytherapy
G. Rossi, M. Carrara (Italy), C. Tenconi, A. Romanyukha, M. Borroni, G. Gambarini, D. Cutajar, M. Petasecca, M. Lerch, J. Bucci, A. Rosenfeld, E. Pignoli

OC-0255

- 11:35 > Column generation-based Monte Carlo treatment planning for rotating shield brachytherapy
M.A. Renaud (Canada), G. Famulari, J. Seuntjens, S. A. Enger

OC-0256

■ Proffered Papers

PHYSICS 6: RADIOBIOLOGICAL MODELLING

10:45 - 11:45 | ROOM 1

Chair: *I. Vogelius (Denmark)*

Chair: *S.M. Tomatis (Italy)*

■ INTERDISCIPLINARY

■ RADIOBIOLOGY

■ CLINICAL

■ BRACHYTHERAPY

■ PHYSICS

■ RTT

■ YOUNG

- 10:45 > A Bayesian network model for acute dysphagia prediction in the clinic for NSCLC patients
A.T.C. Jochems (The Netherlands), T.M. Deist, E. Troost, A. Dekker, C. Faivre-Finn, C. Oberije-Dehing, P. Lambin OC-0257
- 10:55 > Linear-quadratic modeling of acute rectum toxicity in a prostate hypofractionation trial
M. Witte, W. Heemsbergen (The Netherlands), F. Pos, C. Vens, S. Aluwini, L. Incrocci OC-0258
- 11:05 > Spatial rectal dose-response for patient-reported leakage, obstruction, and urgency in prostate RT
O. Casares-Magaz (Denmark), L.P. Muren, S.E. Petersen, V. Moiseenko, M. Høyer, J.O. Deasy, M. Thor OC-0259
- 11:15 > Local dose predictors of acute urinary toxicity after RT for prostate cancer
L. Imbrota (Italy), F. Palorini, C. Cozzarini, T. Rancati, B. Avuzzi, P. Franco, C. Degli Espositi, E. DelMastro, G. Girelli, C. Iotti, V. Vavassori, R. Valdagni, C. Fiorino OC-0260
- 11:25 > CT Image biomarkers improve the prediction of xerostomia and sticky saliva
N.M. Sijtsema (The Netherlands), L.V. Van Dijk, C.L. Brouwer, R.J. Beukinga, A. Van der Schaaf, H.G.M. Burgerhof, J.A. Langendijk, R.J.H.M. Steenbakkers OC-0261
- 11:35 > Comparison of machine-learning methods for predictive radiomic models in locally advanced HNSCC
S. Leger (Germany), A. Bandurska-Luque, K. Pilz, K. Zöphel, M. Baumann, E.G.C. Troost, S. Löck, C. Richter OC-0262

■ Proffered Papers

PHYSICS 7: TREATMENT PLANNING: OPTIMIZATION ALGORITHMS

10:45 - 11:45 | ROOM 500

Chair: M. Alber (Denmark)

Chair: F. Banci Buonamici (Italy)

- 10:45 > VMAT plus few optimised non-coplanar IMRT beams is equivalent to multi-beam non-coplanar liver SBRT
A.W.M. Sharfo (The Netherlands), M.L.P. Dirkx, S. Breedveld, A.M. Mendez Romero, B.J.M. Heijmen OC-0263

- 10:55 > Fast biological RBE modelling for carbon ion therapy using the repair-misrepair-fixation (RMF) model
E. Kamp (Germany), D. Carlson, J. Wilkens OC-0264
- 11:05 > Efficient implementation of random errors in robust optimisation for proton therapy with Monte Carlo
A.M. Barragán Montero (Belgium), K. Souris, E. Sterpin, J.A. Lee OC-0265
- 11:15 > Automated treatment plan generation for advanced stage NSCLC patients
G. Della Gala (The Netherlands), M.L.P. Dirkx, N. Hoekstra, D. Fransen, M. Van de Pol, B.J.M. Heijmen, S.F. Petit OC-0266
- 11:25 > Fully automated planning for non-coplanar CyberKnife prostate SBRT - comparison with automatic VMAT
L. Rossi (The Netherlands), S. Breedveld, S. Aluwini, B. Heijmen OC-0267
- 11:35 > Fully automated VMAT plan generation - an international multi-institutional validation study
B. Heijmen (The Netherlands), P. Voet, D. Fransen, H. Akhlat, P. Bonomo, M. Casati, D. Georg, G. Goldner, A. Henry, J. Lilley, F. Lohr, L. Marrazzo, M. Milder, S. Pallotta, J. Penninkhof, Y. Seppenwoolde, G. Simonacchi, V. Steil, F. Stieler, S. Wilson, R. Pellegrini, S. Breedveld OC-0268

■ Proffered Papers

RTT 3: ENSURING QUALITY IN HEAD AND NECK TREATMENT

10:45 - 11:45 | ROOM 3

Chair: A. O'Donovan (Ireland)

Chair: A. Schouboe (Denmark)

- 10:45 > Comparison of dosimetric parameters of two techniques with VMAT for head and neck cancers
M. Miyazaki (Japan), Y. Ueda, S. Ohira, K. Tsujii, M. Isono, A. Masaoka, T. Teshima OC-0269
- 10:55 > Development of a model to produce reference parotid dose from anatomical parameters in IMRT of NPC
W.S. Leung (Hong Kong SAR China), V.W.C. Wu, F.H. Tang, A.C.K. Cheng OC-0270
- 11:05 > Positional accuracy valuation of a three dimensional printed device for head and neck immobilisation
K. Sato (Japan), K. Takeda, S. Dobashi, K. Kishi, N. Kadoya, K. Ito, M. Chiba, K. Jingu OC-0271

- 11:15 > A comparison of CTCAE version 3 and 4 in assessing oral mucositis in oral/oropharyngeal carcinoma
M. Hickman (UK), J. Good, A. Hartley, P. Sanghera OC-0272
- 11:25 > Including specific symptoms in clinical scoring: predictive modelling and nursing of swallowing pain
D. Nyeng Christiansen (Denmark), K. Olling, L. Wee OC-0273
- 11:35 > Analysis of set-up errors in head and neck cancer treated with IMRT technique assessed by CBCT
D. Delishaj (Italy), S. Ursino, E. Lombardo, F. Matteucci, C. La Liscia, A. Sainato, F. Pasqualetti, B. Manfredi, L.R. Fatigante, M. Panichi, S. Spagnesi, M.G. Fabrini OC-0274

■ Poster Viewing 6

CLINICAL: LUNG, PALLIATION, SARCOMA, HAEMATOLOGY

10:45 - 11:45 | POSTER AREA

Chair: U. Ricardi (Italy)

Chair: J-E Bibault (France)

- > IMRT for non-small cell lung cancer: a decade of experience at the Ghent University Hospital.
P. Deseyne (Belgium), Y. Lievens, W. De Gerssem, P. Berkovic, M. Van Eijkeren, V. Surmont, C. Derie, B. Goddeeris, W. De Neve, K. Vandecasteele PV-0275
- > Adaptive radiotherapy: rate of “marginal” failure after “replanning” in combined treatment of NSCLC
S. Silipigni (Italy), E. Molfese, E. Ippolito, M. Fiore, B. Floreno, P. Matteucci, A. Sicilia, L. Trodella, R. D'Angelillo, S. Ramella PV-0276
- > SBRT with concurrent chemoradiation in stage III NSCLC: first results of the phase I Hybrid trial
H. Peulen (The Netherlands), J.J. Sonke, E. Van der Bijl, E. Damen, J. Belderbos PV-0277
- > Volume concepts in routine radiotherapy for localized Hodgkin lymphoma: results of a national survey
R. Mazon (France), L. Gonzague-Casabianca, K. Peignaux, V. Remouchamps, C. Chira, P. Moisan, J. Lazarovici, V. Edeline PV-0278
- > Role of IFRT prior or after autologous stem cell rescue for refractory or relapsed Hodgkin lymphoma
M. Levis (Italy), C. Piva, A.R. Filippi, P. Pregno, P. Gavarotti, B. Botto, R. Freilone, G. Parvis, D. Gottardi, U. Vitolo, U. Ricardi PV-0279

- > Adjuvant radiotherapy in abdominal desmoplastic small round cell tumor: analysis of 107 patients
V. Atallah (France), C. Honoré, D. Orbach, S. Helfre, A. Ducassou, L. Thomas, M. Levitchi, A. Mervoyer, S. Naji, C. Dupin, G. Kantor, M. Sunyach, P. Sargos
- > (ICORG 05-03): Radiotherapy in malignant spinal cord compression; the quality of life analysis
K. Lee (Ireland), C. Small, P. Kelly, O. McArdle, J. O'Sullivan, D. Hacking, M. Pomeroy, M. Stevenson, J. Armstrong, M. Moriarty, M. Dunne, A. Clayton-Lea, I. Parker, C. Collins, P. Thirion

PV-0280

PV-0281

■ Proffered Papers

DONAL HOLLYWOOD AWARD

12:00 - 12:15 | AUDITORIUM

Chair: *P. Poortmans (The Netherlands)*

- 12:05 > FLAME randomised trial: 95Gy MRI-boost vs 77Gy prostate radiotherapy: toxicity and quality of life
M. Van Vulpen (The Netherlands), J. Van Loon, F. Pos, K. Haustermans, R. Smeenk, L. Van den Bergh, S. Isebaert, G. McColl, M. Kunze-Busch, B. Doodeman, J. Noteboom, E. Monnikhof, U. Van der Heide

OC-0282

■ Proffered Papers

HIGHLIGHTS OF PROFFERED PAPERS

12:15 - 13:00 | AUDITORIUM

Chair: *Y. Lievens (Belgium)*Chair: *B. Heijmen (The Netherlands)*

- 12:15 > Dose escalation with contact x-ray brachytherapy to improve organ preservation in rectal cancer
A. Sun Myint (UK), F. Smith, K. Whitmarsh
- 12:25 > PD-L1 inhibition improves response of pancreatic cancer to radiotherapy
A. Azad, Z. D'Costa, S.Y. Lim, O. Sansom, W.G. McKenna, R. Muschel, E. Fokas (UK)
- 12:35 > Experimental benchmarking of a probe-format calorimeter for use as an absolute clinical dosimeter
J. Renaud (Canada), A. Sarfehnia, J. Seuntjens

OC-0283

OC-0284

OC-0285

■ INTERDISCIPLINARY

■ RADIOBIOLOGY

■ CLINICAL

■ BRACHYTHERAPY

■ PHYSICS

■ RTT

■ YOUNG

- 12:45 > From pixel to print: clinical implementation of 3D-printing in electron beam therapy for skin cancer
R. Canters (The Netherlands), I. Lips, M. Van Zeeland, M. Kusters, M. Wendling, R. Gerritsen, P. Poortmans, C. Verhoef

OC-0286

■ Symposium

PLANNING AHEAD: HOW TO FINISH YOUR RESIDENCY / PHD PROJECT WITH A JOB OFFER

13:00 - 14:15 | MADRID

*Chair: D. Verellen (Belgium)**Chair: U. Oelfke (UK)*

- 13:00 > Planning ahead: how to finish your residency / PhD project with a job offer as a radiation oncologist
Speaker: S. Rivera (France)

SP-0287

- 13:18 > Planning ahead: how to finish your residency / PhD project with a job offer as a radiobiologist
Speaker: M. Vozenin (Switzerland)

SP-0288

- 13:36 > Planning ahead: how to finish your residency / PhD project with a job offer as a physicist
Speaker: D. Verellen (Belgium)

SP-0289

- 13:54 > Planning ahead: how to finish your residency / PhD project with a job offer as a researcher
Speaker: U. Oelfke (UK)

SP-0290

■ Symposium with Proffered Papers

STANDARDISATION IN CLINICAL PRACTICE

14:15 - 15:30 | ROOM 2

Standardisation is of utmost importance if we want to monitor and improve quality in radiation oncology. It does not only reduce variability, increasing quality but also increases efficiency. In this symposium we will cover how standardisation can be implemented in different areas of the treatment process and what is its impact on quality.

The standardisation of clinical target delineation and organ at risk contouring will be covered by the first two speakers, Caroline Weltens and Stefania Pallotta. Ben Heijmen will cover treatment planning while Angela Baker will focus on the implementation of standardisation at a local and national level.

*Chair: N. Jornet (Spain)**Co-chair: G. Biti (Italy)*

- 14:15 > Guideline-based contouring and clinical audit systems
Speaker: C. Weltens (Belgium)

SP-0291

- 14:30 > Standardisation and treatment planning
Speaker: B. Heijmen (The Netherlands), A. Henry, S. Breedveld **SP-0292**
- 14:45 > Potentials and challenges of automated contouring in treatment planning
Speaker: S. Pallotta (Italy) **SP-0293**
- 15:00 > Implementation of new standards in your department: an RTT perspective
Speaker: A. Baker (UK), Y. Tsang **SP-0294**
- 15:15 > Improvement of delineation quality of organs at risk in head and neck using the consensus guidelines
R. Steenbakkers (The Netherlands), C. Brouwer, J. Bourhis, W. Budach, C. Grau, V. Grégoire, M. Van Herk, A. Lee, P. Maingon, C. Nutting, B. O'Sullivan, S. Porceddu, D. Rosenthal, N. Sijtsema, J. Langendijk **OC-0295**

■ Symposium

DNA REPAIR INHIBITION AND RADIOTHERAPY: MOVING TOWARDS CLINIC

14:15 - 15:30 | LONDRA

For many years the radiosensitising effects of DNA repair inhibitors have been presented at ESTRO.

But only recently have these agents progressed to clinical testing in combination with radiotherapy and systemic anti-cancer agents.

In this symposium three internationally leading researchers will present groundbreaking work evaluating the most advanced class of DNA repair antagonists: PARP inhibitors.

Jan Schellens will report on studies combining PARP inhibitors with chemotherapy while Marcel Verheij will describe the challenges associated with combining PARP inhibitors and radiation. Finally David Raben will present a novel strategy combining PARP inhibition with radiation and the EGFR targeting agent cetuximab.

Chair: A. Chalmers (UK)

Co-chair: M. Buglione (Italy)

- 14:15 > Challenges in combining radiation and chemo-radiation with PARP inhibitors
Speaker: J. Schellens (The Netherlands) **SP-0296**
- 14:40 > Results of phase I trials combining PARP inhibition and radiotherapy in multiple sites
Speaker: M. Verheij (The Netherlands) **SP-0297**
- 15:05 > Phase I results of PARP Inhibition + Radiation + Cetuximab in heavy smoker LAHNSCC
Speaker: D. Raben (USA) **SP-0298**

■ INTERDISCIPLINARY ■ RADIOBIOLOGY ■ CLINICAL ■ BRACHYTHERAPY ■ PHYSICS ■ RTT ■ YOUNG

■ Symposium

RADIOTHERAPY OF PROSTATE CANCER: TECHNICAL CHALLENGES

14:15 - 15:30 | AUDITORIUM

This GU symposium is aimed at reviewing the most challenging technical innovations in the field of radiation therapy for localized prostate cancer. The speakers will cover relevant aspects regarding 3 topics:

1) Dr Alberto Bossi will review the current status of focal therapy with special focus on indications, techniques, results and limitations. 2) Dr Peter Hoskin will analyse the emergent role of HDR brachytherapy in dose escalation RT, radiobiological basis and the updated results of randomised trial. 3) Finally, Dr Widmark, will discuss the relevant aspects of extreme hypofractionation: indications and clinical trials.

Chair: A. Zapatero (Spain)

Co-chair: S. Arcangeli (Italy)

14:15 > Extreme hypofractionation: indications and results

Speaker: L. Beckman (Sweden)

SP-0299

14:40 > Focal strategies: ready for prime time?

Speaker: A. Bossi (France)

SP-0300

15:05 > Brachytherapy as a boost: the way to go?

Speaker: P. Hoskin (UK)

SP-0301

■ Debate

THIS HOUSE BELIEVES THAT SBRT SHOULD BECOME THE STANDARD OF CARE FOR T₁ AND SMALL T₂ NSCLC TUMOURS

14:15 - 15:30 | GIALLA

Stereotactic body radiotherapy (SBRT) has become the standard of care for patients, who are medically inoperable. This is because of high local control rates combined with a favorable toxicity profile, even in high-risk and elderly populations. With overall survival after SBRT mostly influenced by the patients' comorbidities, it is discussed controversially, whether SBRT might be an alternative to surgical resection. The lack of high level of evidence, concerns regarding omission of regional treatment and the lack of histopathology are points against this motion. Consistent evidence in non-randomised studies and in a small pooled analysis of two randomised studies speak for the motion.

Chair: M. Guckenberger (Switzerland)

Chair: D. De Ruyscher (The Netherlands)

14:15 > For the motion

Speaker: K. Franks (UK)

SP-0302

14:35 > Against the motion

Speaker: P. Van Schil (Belgium)

SP-0303

14:55 > For the motion rebuttal

Speaker: K. Franks (UK)

- 15:05 > Against the motion rebuttal
Speaker: P. Van Schil (Belgium)
- 15:15 > Discussion

■ Debate

IS BRACHYTHERAPY THE BEST FOR PARTIAL BREAST IRRADIATION?

14:15 - 15:30 | ROOM 4

Four experts in the field of APBI will review the pros and cons of available APBI techniques:

Based on the recently published results of the GEC-ESTRO APBI trial, Prof Strnad will emphasise that multicatheter brachytherapy is the only technique which proved to be non-inferior to WBRT concerning 5-year local control and side effects.

In contrast, Prof Orecchia will focus on the advantages of IORT, which offers the opportunity to complete RT at the time of lumpectomy. He believes that the results of the ELIOT and TARGIT trials demonstrate that IORT yields a low rate of breast recurrence in selected patients with low toxicity profile.

Dr Offersen will report the highly-awaited 5-year results of the IMPORT-LOW and DBCG APBI trials using EBI. She will also emphasise the wide-spread availability of EBI techniques, and the importance of dose homogeneity delivered with IMRT.

Finally, Dr Major will provide an objective evaluation on the dosimetric pros and cons of available APBI techniques. He will show that there is no best 'one-size-fits all' technique for all clinical cases.

Chair: C. Polgár (Hungary)

Chair: E. Van Limbergen (Belgium)

- 14:15 > Multicatheter brachytherapy is the best for APBI
Speaker: V. Strnad (Germany) SP-0304
- 14:30 > IORT is the best for PBI
Speaker: R. Orecchia (Italy) SP-0305
- 14:45 > IMRT is the best for PBI
Speaker: B. Offersen (Denmark) SP-0306
- 15:00 > Dosimetric pros and cons of available PBI techniques
Speaker: T. Major (Hungary) SP-0307
- 15:15 > Discussion

■ Symposium

NEW CHALLENGES IN MODELLING DOSE-VOLUME EFFECTS

14:15 - 15:30 | ROOM 1

This symposium on normal tissue complication will cover current approaches to modelling, challenges in selection of patient and treatment related variables, as well as the impact of uncertainties on complication probability. Phenomenological approaches to modelling will be introduced and current challenges in collection of data as well as data mining will be discussed. The integration of image information for

■ INTERDISCIPLINARY ■ RADIOBIOLOGY ■ CLINICAL ■ BRACHYTHERAPY ■ PHYSICS ■ RTT ■ YOUNG

improvement of complication prediction models will be specifically considered. Furthermore, random and systematic dosimetric uncertainties will be discussed in the light of the impact on modelling as well as patient outcome in terms of complication probability.

Chair: K. Tanderup (Denmark)

Co-chair: G.M. Cattaneo (Italy)

- | | | | |
|-------|---|--|---------|
| 14:15 | > | Evaluating the impact of clinical uncertainties on TCP/NTCP models in brachytherapy
<i>Speaker: N. Nesvacil (Austria)</i> | SP-0308 |
| 14:40 | > | Incorporation of imaging-based features into predictive models of toxicity
<i>Speaker: C. Brink (Denmark)</i> | SP-0309 |
| 15:05 | > | Growing importance of data-mining methods to select dosimetric/clinical variables in predictive models of toxicity
<i>Speaker: T. Rancati (Italy)</i> | SP-0310 |

■ Symposium

AUTOMATED TREATMENT PLAN GENERATION IN THE CLINICAL ROUTINE

14:15 - 15:30 | ROOM 500

During the session we will hear about several implementations of automated treatment planning. We will have the Zurich, Milan and Rotterdam experiences to be reported on, in this workshop. We will hear about the different approaches and how this have helped(?) the planning for different tumour sites e.g. head and neck, prostate, breast etc. The presentations will follow a common structure:

- Implementation or pre-clinical activities for automated planning
- Clinical examples and experience
- Plan quality
- Changes in workflow

This will help radiation oncologists, medical physicists, RTTs and dosimetrists to plan for a future implementation at their departments at home.

Chair: T. Knöös (Sweden)

Co-chair: M. Iori (Italy)

- | | | | |
|-------|---|---|---------|
| 14:15 | > | Automated treatment plan generation - the Zurich experience
<i>Speaker: J. Krayenbuehl (Switzerland)</i> | SP-0311 |
| 14:40 | > | Automated treatment plan generation - the Milan experience
<i>Speaker: A. Fogliata (Italy)</i> | SP-0312 |
| 15:05 | > | Fully automated treatment plan generation using Erasmus-iCycle - the Rotterdam experience
<i>Speaker: M. Dirkx (The Netherlands)</i> | SP-0313 |

Symposium

ELDERLY AND RADIATION THERAPY

14:15 - 15:30 | ROOM 3

The symposium will focus on how geriatric assessment can be adapted to daily cancer care and radiation therapy. The preference of older females with breast cancer for either surgery or radiation therapy will be explored and how further information may influence this choice. Finally a quick-guide, Palliative Radiation Treatment Summary (PaRTS), dedicated to all health care professions has been developed, and possibilities to bridge the gap between the radiation medicine and primary care team, using the tool, will be discussed.

Chair: A. Boejen (Denmark)

Co-chair: S.C. Frasca (Italy)

- 14:15 > Geriatric assessment is a requirement to effectively provide a quality radiotherapy service to the older person

Speaker: A. O'Donovan (Ireland)

SP-0314

- 14:40 > Treatment choices in the elderly: focus on breast cancer

Speaker: N. De Glas (The Netherlands)

SP-0315

- 15:05 > Palliative radiation therapy in geriatric cancer patients

Speaker: C. Nieder (Norway)

SP-0316

Symposium

A JOINT SESSION OF YOUNG RADIATION ONCOLOGISTS NATIONAL SOCIETIES & YROG

14:15 - 15:30 | MADRID

One of the goals of the ESTRO Young Committee is to bring together all young radiation oncology professionals across Europe. This session will present you some examples of young societies and their activities in their respective country and field (yESTRO, EORTC YROG, France, Italy, and UK). It should be a great opportunity for networking and creating synergies between each other.

Chair: J-E Bibault (France)

Chair: O. Kaidar-Person (Israel)

- 14:15 > What is the Young ESTRO Committee and what can it do for young radiation oncology professionals?

Speaker: J-E Bibault (France)

SP-0317

- 14:30 > The Young Radiation Oncology Group of EORTC -ROG

Speaker: O. Kaidar-Person (Israel)

SP-0318

- 14:45 > The French Society of Young Radiation Oncologists

Speaker: T. Leroy (France)

SP-0319

■ INTERDISCIPLINARY

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■ CLINICAL

■ BRACHY THERAPY

■ PHYSICS

■ RTT

■ YOUNG

- 14:55 > The Young AIRO (Italian Association of Radiation Oncology) Group
Speaker: D. Greto (Italy) SP-0320
- 15:05 > The British Institute of Radiology
Speaker: S. Hafeez (UK) SP-0321
- 15:15 > Round table discussion with present Young National Societies

■ Poster Viewing

PHYSICS: INTRA-FRACTION MOTION MANAGEMENT II

14:15 - 15:30 | POSTER AREA

Chair: P. Poulsen (Denmark)

Chair: R. Perrin (Switzerland)

- > Target displacement evaluation for fluoroscopic and four-dimensional cone-beam computed tomography
H. Iramina (Japan), M. Nakamura, Y. Iizuka, Y. Matsuo, T. Mizowaki, M. Hiraoka, I. Kanno PV-0322
- > Prospective evaluation of markerless tumour tracking using 4D3D registration and dual energy imaging
J. Dhont (Belgium), D. Verellen, K. Poels, M. Burghelea, K. Tournel, T. Gevaert, B. Engels, C. Collen, R. Van Den Begin, G. Storme, M. De Ridder PV-0323
- > Intra-fraction motion characterisation of head-and-neck tumors using cine-MRI
T. Bruijnen (The Netherlands), B. Stemkens, M.E.P. Philippens, L.P.W. Canjels, R.H.N. Tijssen, T. Schakel, C.H.J. Terhaar, J.J.W. Lagendijk, C.P.J. Raaijmakers PV-0324
- > Retrospective self-sorted 4D-MRI for the liver
T. Van de Lindt (The Netherlands), U. Van der Heide, J. Sonke PV-0325
- > Respiratory gating guided by internal electromagnetic motion monitoring during liver SBRT
P. Poulsen (Denmark), E. Worm, R. Hansen, L. Larsen, C. Grau, M. Hoyer PV-0326
- > Patient-specific motion management and adaptive respiratory gating in Pancreatic SBRT
B.L. Jones (USA), W. Campbell, P. Stumpf, A. Amini, T. Schefter, B. Kavanagh, K. Goodman, M. Miften PV-0327

- > Rectal immobilisation device in stereotactic prostate treatment: intrafraction motion and dosimetry
J. De Leon (Australia), D. Rivest-Henault, S. Keats, M. Jameson, R. Rai, S. Arumugam, L. Wilton, D. Ngo, J. Martin, M. Sidhom, L. Holloway
- > Modulation indexes for predicting interplay effects in lung SABR treatments
J. Puxeu Vaqué (Spain), V. Hernandez, J. Saez, P. Saldaña, W.H. Nailon, A. Sankar, M.A. Duch

PV-0328

PV-0329

■ Multidisciplinary Tumour Board

SESSION 2: RECTAL CANCER

14:15 - 15:30 | ISTANBUL

Chair: TBC**ESTRO fellow****Panellist:** *F. Cellini (Italy)***Medical oncologist****Panellist:** TBC**Surgeon****Panellist:** *S. Bach (UK)***Radiologist****Panellist:** *B. Barbaro (Italy)*

■ Symposium with Proffered Papers

UNCOVERING THE GAP BETWEEN OPTIMAL AND ACTUAL UTILISATION OF RADIOTHERAPY IN EUROPE

16:15 - 17:15 | ROOM 2

Chair: *C. Grau (Denmark)***Co-chair:** *M. Barton (Australia)*

- 16:15 > Introduction: The HERO data on optimal versus actual utilisation of radiotherapy in Europe
Speaker: *C. Grau (Denmark)*
- 16:19 > How many new cancer patients in Europe will require radiotherapy by 2025? An ESTRO-HERO analysis
J.M. Borrás (Spain), Y. Lievens, M. Barton, J. Corral, J. Ferlay, F. Bray, C. Grau

SP-0330

OC-0331

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- 16:29 > Modelled effects of hypofractionation on radiotherapy demand in England
T. Mee (UK), N.F. Kirkby, K.J. Kirkby, R. Jena OC-0332
- 16:39 > Evaluation of radiotherapy utilisation in Belgium: patterns and possible causes of suboptimal use
Speaker: E. Van Eycken (Belgium), H. De Schutter, K. Stellamans, M. Rosskamp, Y. Lievens SP-0333
- 16:57 > Cancer plans in Europe and radiotherapy needs assessment: can we dance a tango?
Speaker: T. Albreht (Slovenia) SP-0334

■ Debate

MAXIMISING TUMOUR CONTROL: CRANK UP THE VOLUME OR TURN OFF THE SWITCHES?

16:15 - 17:15 | LONDRA

Chair: C. Vens (The Netherlands)

Chair: A. Chalmers (UK)

- 16:15 > For the motion
Speaker: A. Tree (UK) SP-0335
- 16:30 > Against the motion
Speaker: J. Sonke (The Netherlands) SP-0336
- 16:45 > For the motion rebuttal
Speaker: B. Wouters (Canada)
- 16:55 > Against the motion rebuttal
Speaker: A. Dekker (The Netherlands)
- 17:05 > Discussion

■ Proffered Papers

CLINICAL 7: UROLOGY

16:15 - 17:15 | AUDITORIUM

Chair: R. Valdagni (Italy)

Chair: C. Salembier (Belgium)

- 16:15 > More acute proctitis symptoms with hypofractionation (3.4 Gy) than 2 Gy fractions
W. Heemsbergen (The Netherlands), L. Incrocci, C. Vens, M. Witte, S. Aluwini, F. Pos OC-0339

- 16:25 > Effect of dose and image guided radiotherapy (IGRT) on erectile potency (EP) in prostate radiotherapy
L. Murray (UK), J. Dean, H. Mossop, E. Hall, D. Dearnaley, S. Gulliford OC-0340
- 16:35 > Anal dose reduction for radiotherapy of prostate cancer does not lead to less rectal incontinence
F. Pos (The Netherlands), L. Incrocci, R. Wortel, U. Van der Heide, J. Lebesque, S. Aluwini, M. Witte, W. Heemsbergen OC-0341
- 16:45 > Chemoradiotherapy in high-risk prostate cancer (QRT SOGUG trial): Preliminary report
P. Foro Arnalot (Spain), X. Maldonado, M. Bonet, J. Jove, A. Roviro, M. Rico, A. Bejar, G. Sancho, M.J. Vega, M. Mira, M. Martinez, M. Algara, J. Carles OC-0342
- 16:55 > Pattern of intraprostatic recurrence on multiparametric MRI after radiotherapy for prostate cancer
H. Ariyaratne (UK), D. Kopcke, A. Padhani, R. Alonzi OC-0343
- 17:05 > Risk of second primary cancers after radiotherapy for prostate cancer
N.S. Hegemann (Germany), U. Ganswindt, J. Engel, C. Belka OC-0344

■ Proffered Papers

CLINICAL 8: ADULT AND PAEDIATRIC CNS MALIGNANCIES

16:15 - 17:15 | GIALLA

Chair: R. Kortmann (Germany)

Chair: S. Scoccianti (Italy)

- 16:15 > Patterns of failure after radiotherapy in pediatric ependymoma: correlation with dose parameters
F. Tensaouti (France), A. Ducassou, S. Bolle, X. Muracciole, B. Coche-Dequeant, L. Claude, S. Supiot, C. Alapetite, V. Bernier, A. Huchet, C. Kerr, E. Le Prise, G. Truc, E. Regnier, S. Chapet, A. Lisbona, G. Hangard, A. Laprie OC-0345
- 16:25 > Pediatric diffuse intrinsic pontine glioma re-irradiation: better survival and better time
L. Gandola (Italy), E. Pecori, V. Biassoni, B. Diletto, E. Schiavello, S. Meroni, F. Spreafico, E. Pignoli, M. Massimino OC-0346

- 16:35 > Outcome and prognosticators in adult patients with medulloblastoma: a Rare Cancer Network study
B. Atalar (Turkey), M. Ozsahin, J. Call, A. Napieralska, S. Kamer, V. Salvador, P. Erpolat, L. Negretti, Y.L. Ramstad, C. Onal, S. Akyurek, G. Ugurluer, B. Baumert, S. Servagi-Vernat, R.C. Miller, E. Ozyar, T. Sio OC-0347
- 16:45 > Tumor bed radiosurgery vs. whole brain radiotherapy after surgery of single brain metastasis
L. Kepka (Poland), D. Tyc-Szczepaniak, K. Bujko, M. Olszyna-Seremeta, W. Michalski, A. Sprawka, B. Trabska-Kluch, K. Komosinska, E. Wasilewska-Tesluk, B. Czeremczynska OC-0348
- 16:55 > Hippocampal dosimetry predicts the change in neurocognitive functions after whole brain radiotherapy
S.Y. Lin (Taiwan), C.C. Yang, C.C. Chuang, P.C. Pai, P.F. Tsai, D.L. Tsan, C.K. Tseng OC-0349
- 17:05 > Post-radiation neuronal depletion in hippocampus measured by in-vivo magnetic resonance spectroscopy
P. Pospisil, T. Kazda (Czech Republic), R. Jancalek, P. Slampa OC-0350

■ Proffered Papers

BRACHYTHERAPY 4: GYNAE-BREAST

16:15 - 17:15 | ROOM 4

Chair: A. Cerrotta (Italy)

Chair: H. Westerveld (The Netherlands)

- 16:15 > MRI-guided brachytherapy in cervical cancer: high doses to small bowel don't predict late morbidity
C. Petit (France), R. Mazon, C. Chargari, I. Dumas, P. Maroun, P. Annede, T. Seisen, C. Haie Meder OC-0351
- 16:25 > The high doses employed in brachytherapy of cervical cancer counteract hypoxia - a modelling study
E. Lindblom (Sweden), A. Dasu, I. Toma-Dasu OC-0352
- 16:35 > EBRT and interstitial brachytherapy for recurrent vault carcinomas: Factors influencing the outcomes
R. Engineer (India), S. Chopra, U. Mahantshetty, A. Maheshwari, R. Kerkar, R. Phurailatpam, J. Swamidasa, S.K. Shrivastava OC-0353
- 16:45 > Artificial neural network for bladder dose interfractional variation prediction in GYN brachytherapy
Z. Siavashpour (Iran), M.R. Aghamiri, R. Jaber, R. Ghaderi, C. Kirisits OC-0354

- 16:55 > Long term analysis of electron vs. HDR boost in breast conservation - an Indian experience
S. Saha (India), S. Sarkar, A. Mitra, A. Ghosh Dastidar, S. Chattopadhyay, S. Gupta OC-0355
- 17:05 > Long terms results of permanent breast seed implants (PBSI) as partial breast irradiation
J.P. Pignol (The Netherlands), J. Caudrelier, C. McCann, S. Doggett, J. Crook OC-0356

■ Proffered Papers

PHYSICS 8: DOSE MEASUREMENT AND DOSE CALCULATION I

16:15 - 17:15 | ROOM 1

Chair: V.N. Hansen (UK)

Chair: S. Russo (Italy)

- 16:15 > Pilot study of a remote end-to-end dosimetry audit for IMRT and VMAT treatments
P. Wesolowska (Austria), B. Almady, E. Adolphsson, A. Carlsson Tedgren, D. Georg, S. Kry, W. Lechner, J. Povall, M. Tenhunen, M. Tomsej, J. Izewska OC-0357
- 16:25 > Surface doses with FFF VMAT dose delivery for breast cancer
J. Seppala (Finland), A. Voutilainen, J. Heikkilä, T. Koivumäki, T. Viren, M. Vauhkonen OC-0358
- 16:35 > Superficial dose verification of four dose calculation algorithms
Y. Cao (China), Z. Yang, X. Yang, X. Qiu OC-0359
- 16:45 > TomoTherapy tangential breast treatment position uncertainty via exit detector fluence
N. Corradini (Switzerland), P. Urso, C. Vite OC-0360
- 16:55 > Simulation of clinical relevance errors detected by real-time EPID-based patient verification system
T. Fuangrod, J. Simpson (Australia), R. Middleton, P. Greer OC-0361
- 17:05 > EPID-based in-vivo dosimetry results: a national statistic
A. Piermattei (Italy), S. Menna, F. Greco, S. Cilla, R. Caivano, V. Fusco, L. Orlandini, G. Benecchi, R. Nigro, D. Falco, A. Fidanzio OC-0362

■ Proffered Papers

PHYSICS 9: ADAPTIVE RT FOR INTER-FRACTION MOTION MANAGEMENT

16:15 - 17:15 | ROOM 500

Chair: B. Raaymakers (The Netherlands)

Chair: A.F. Monti (Italy)

- 16:15 > Dose escalation in lung cancer patients, the dosimetric implications of inter-fractional change
L. Hoffmann (Denmark), M. Knap, A. Khalil, D. MÃ, ller OC-0363
- 16:25 > Adaptive radiotherapy for advanced lung cancer ensures target coverage and decreases lung dose
D.S. Moeller (Denmark), M.I. Holt, M. Alber, M.M. Knap, A.A. Khalil, L. Hoffmann OC-0364
- 16:35 > The need for anatomical landmarks in adaptive rectal cancer boost radiotherapy
J.J.E. Kleijnen (The Netherlands), B. Van Asselen, M. Intven, J.J.W. Lagendijk, B.W. Raaymakers OC-0365
- 16:45 > Dosimetric benefit of adaptive proton therapy compared to adaptive photon therapy in cervical cancer
A.J.A.J. Van de Schoot (The Netherlands), P. De Boer, K.F. Crama, J. Visser, L.J.A. Stalpers, C.R.N. Rasch, A. Bel OC-0366
- 16:55 > A Neural Network analysis to support adaptive RT strategies: a multicenter retrospective study
G. Guidi (Italy), N. Maffei, B. Meduri, S. Maggi, M. Cardinali, V.M. Morabito, F. Rosica, S. Malara, A. Savini, G. Orlandi, C. D.Ugo, F. Bunkheila, M. Bono, S. Lappi, C. Blasi, G.M. Mistretta, P. Ceroni, A. Ciarmatori, A. Bernabei, P. Giacobazzi, T. Costi OC-0367
- 17:05 > Accurate CBCT based dose calculations
R.S. Thing (Denmark), U. Bernchou, O. Hansen, C. Brink OC-0368

■ Proffered Papers

RTT 4: HOW TO INCREASE THE KNOWLEDGE FOR PATIENTS AND STAFF

16:15 - 17:15 | ROOM 3

Chair: C. Nomden (The Netherlands)

Chair: A. Baker (UK)

- 16:15 > Video glasses to reduce claustrophobic anxiety in radiotherapy treatment
V. Althof (The Netherlands), H. Althof, E. Dahmen, P. Bouma OC-0369

- 16:25 > The influence of virtual training on pelvic radiotherapy education for the multidisciplinary team
A. Williams (UK), U. Shah, G. Fury, L. Codd, M. Brown, Y. Tsang OC-0370
- 16:35 > Introduction of a consultant radiographer to stereotactic radiotherapy service
Y. Tsang (UK), P. Ostler, N. Shah, J. Kudhail, P. Hoskin OC-0371
- 16:45 > Changes in student attitudes following a pre-registration interprofessional learning experience
K. Coleman (New Zealand), B. Darlow, E. McKinlay, P. Gallagher, M. Perry, L. Beckingsale, B. Gray, H. Nesar, S. Donovan, J. Stanley, S. Pullon OC-0372
- 16:55 > IGRToonline: development and evaluation of a free online course on Image Guided Radiation Therapy
L. Mallick (India), R. Achari, S. Chatterjee, R. Shrimali, S. Prasath, B. Arun, A. Mahata OC-0373
- 17:05 > Use of IV contrast media in pre-treatment radiotherapy planning CT scans: A UK study
K. Williams (UK), H. Probst OC-0374

■ Plenary Session

YOUNG NETWORKING

16:15 - 17:15 | MADRID

- 16:15 > The ESTRO Physics Research Masterclass – support in starting up physics research
Speaker: B. Heijmen (The Netherlands)

■ Poster Viewing 8

PHYSICS: INTER-FRACTION MOTION MANAGEMENT II

16:15 - 17:15 | POSTER AREA

Chair: M. Hoogeman (The Netherlands)

Chair: S. Thörnqvist (Norway)

- > Comparison of carina- versus bony anatomy-based registration for IGRT in esophageal cancer.
M. Machiels (The Netherlands), P. Jin, C.H.M. Van Gorp, J.E. Van Hooft, T. Alderliesten, M.C.C.M. Hulshof PV-0375

- > Contrast-enhanced respiration managed cone-beam CT for image guided intrahepatic radiotherapy
M. Lock (Canada), N. Jensen, R. Kozak, J. Chen, T. Lee, E. Wong
PV-0376
- > Inter-fraction bladder variations in RT of prostate cancer: impact on dose surface maps
A. Botti, F. Palorini (Italy), V. Carillo, I. Improta, S. Gianolini, C. Iotti, T. Rancati, C. Cozzarini, C. Fiorino
PV-0377
- > CBCT derived CTV-PTV margins for elective pelvic node irradiation of prostate cancer patients
C.A. Lyons (UK), R.B. King, C.J. Ho, J.Y. Sun, J.M. O'Sullivan, S. Jain, A.R. Hounsell, C.K. McGarry
PV-0378
- > 4D Cone-Beam CT reconstruction with 60s acquisition and 60s reconstruction
D. Hansen (Denmark), T. Sørensen
PV-0379

■ Plenary Session

ESTRO SCHOOL SYMPOSIUM

16:15-17:15 | ISTANBUL

Chair: R. Pötter

- 16:15 > The ESTRO School: from 2016 to 2025
J. Eriksen (Denmark)
- 16:50 > New directions to go: Blended learning at ESTRO
M. Leech (Ireland)
- 17:00 > New directions to go: German undergraduate network of radiotherapy CLUB 100 - a European perspective
L. Bolm (Germany)
- 17:10 > Conclusion
J. Eriksen (Denmark)

■ Award Lecture

ACADEMIC AWARD: JACK FOWLER UNIVERSITY OF WISCONSIN AWARD

17:30 - 17:40 | AUDITORIUM

Chair: P. Poortmans (Belgium)

Chair: Y. Lievens (Belgium)

Chair: B. Heijmen (The Netherlands)

- 17:30 > Moving away from binary definition of PTVs: a novel probabilistic approach to PTV definition
H. Tsang (UK), C. Kamerling, S. Nill, U. Oelfke, U

OC-0380

■ Award Lecture

COMPANY AWARD LECTURES

17:40 - 18:00 | AUDITORIUM

Chair: P. Poortmans (Belgium)

Chair: Y. Lievens (Belgium)

Chair: B. Heijmen (The Netherlands)

- 17:40 > Perfusion SPECT can quantify radiation-induced changes in the lung after IMRT for NSCLC
K. Farr (Denmark), A. Khalil, D. Møller, H. Bluhme, S. Kramer, A. Morsing, C. Grau

OC-0381

- 17:50 > A novel concept to tumour targeting: inverse dose-painting or targeting the “Low uptake drug volume”
A. Yaromina (The Netherlands), M. Granzier, W. van Elmpt, R. Biemans, N. Lieuwes, L. Dubois, P. Lambin

OC-0382

■ Teaching Lecture

HOW TO BRING QUANTEC INTO THE 21ST CENTURY?

08:00 - 08:40 | ROOM 2

Chair: B. Heijmen (The Netherlands)

- 08:00 > How to bring QUANTEC into the 21st century?
Speaker: C. Fiorino (Italy)

SP-0383

■ Teaching Lecture

SHARED DECISION MAKING

08:00 - 08:40 | ROOM 4

Chair: N. Dinapoli (Italy)

- 08:00 > Shared decision making
Speaker: D. Tomson (UK)

SP-0384

■ Teaching Lecture

THE STUDY OF THERAPY RESISTANCE IN GENETICALLY ENGINEERED MOUSE MODELS FOR BRCA1-MUTATED BREAST CANCER

08:00 - 08:40 | LONDRA

Chair: K. Borgmann (Germany)

- 08:00 > The study of therapy resistance in genetically engineered mouse models for BRCA1-mutated breast cancer
Speaker: S. Rottenberg (Switzerland)

SP-0385

■ Teaching Lecture

SBRT/SABR FOR OLIGOMETASTATIC DISEASE

08:00 - 08:40 | AUDITORIUM

Chair: G. De Meerleer (Belgium)

- 08:00 > SBRT/SABR for oligometastatic disease
Speaker: E. Lartigau (France)

SP-0386

■ **Teaching Lecture**

ADVANCED TREATMENT STRATEGIES FOR HEAD AND NECK CANCER

08:00 - 08:40 | GIALLA

Chair: I. Barillot (France)

08:00 > Advanced treatment strategies for head and neck cancer

Speaker: W. Budach (Germany)

SP-0387

■ **Teaching Lecture**

DOSE TO WATER VS. DOSE TO TISSUE IN ADVANCED TREATMENT PLANNING: MYTHS, REALITIES AND CONCERNS

08:00 - 08:40 | ROOM 1

Chair: E. Spezi (UK)

08:00 > Dose to water vs. dose to tissue in advanced treatment planning: myths, realities and concerns

Speaker: N. Reynaert (France)

SP-0388

■ **Teaching Lecture**

NANODOSIMETRY: FROM RADIATION PHYSICS TO RADIATION BIOLOGY

08:00 - 08:40 | ROOM 500

Chair: H. Palmans (UK)

08:00 > Nanodosimetry: from radiation physics to radiation biology

Speaker: H. Rabus (Germany)

SP-0389

■ **Teaching Lecture**

BRACHYTHERAPY FOR THE PELVIC REGION: STATUS AND PERSPECTIVE FOR THE FUTURE

08:00 - 08:40 | ROOM 3

Chair: E. Bloemen van Gorp (The Netherlands)

08:00 > Brachytherapy for the pelvic region: status and perspectives for the future - Gynaecology

Speaker: R. Mazon (France)

SP-0390

08:20 > Brachytherapy for the pelvic region: status and perspective for the future - Prostate

Speaker: A. Henry (UK)

SP-0391

■ INTERDISCIPLINARY

■ RADIOBIOLOGY

■ CLINICAL

■ BRACHYTHERAPY

■ PHYSICS

■ RTT

■ YOUNG

■ Symposium with Proffered Papers

ADAPTIVE RADIOTHERAPY FOR COPING WITH ANATOMICAL VARIATIONS: HOPE OR HYPE?

08:45 - 10:00 | ROOM 2

A huge step in radiation therapy is the introduction of Adaptive Radiotherapy (ART). With ART the treatment can be individualised, according to changes in the anatomy of the patient. To date the clinical implications are not yet known; several studies are developed to get more information concerning these clinical implications. In this symposium, we will focus on different ART strategies, selection of the patients, as well as the practical challenges and costs of ART.

Chair: M. Mast (The Netherlands)

Co-chair: G. Guidi (Italy)

08:45 > Overview of clinical practice of ART for pelvic tumours

Speaker: S. Thörnqvist (Norway), L.B. Hysing, L. Tuomikoski, A. Vestergaard, K. Tanderup, L.P. Muren, B.J.M. Heijmen

SP-0392

09:05 > The challenges of ART from a physician's perspective

Speaker: S. Nuyts (Belgium)

SP-0393

09:25 > The practical "costs" of adaptive radiotherapy

Speaker: C. Rowbottom (UK)

SP-0394

09:45 > Patient selection in head and neck adaptive radiotherapy

C. Brouwer (The Netherlands), R. Steenbakkers, A. Van der Schaaf, C. Sopacua, L. Van Dijk, R. Kierkels, H. Bijl, J. Burgerhof, J. Langendijk, N. Sijtsema

OC-0395

■ Symposium with Proffered Papers

TIME IS NOT ON OUR SIDE: CARDIOVASCULAR TOXICITY AFTER RADIOTHERAPY

08:45 - 10:00 | ROOM 4

Radiotherapy is often used in patients with expected prolonged disease-free-survival. Long term follow up of cancer survivors, indicated that the therapeutic effect of radiotherapy is compromised by cardiovascular disease (CAD) aggravated by radiation exposure of the heart and coronary arteries. Recent publications have shown a dose-effect relationship with no apparent threshold. In this multidisciplinary symposium we will discuss the clinical aspects of CAD along with quantitative analyses beyond the QUANTEC and whether the use of innovative techniques compared to conventional radiation will change the magnitude of radiation induced CAD. Importantly, we will show that in 2016 we still have open questions.

Chair: O. Kaidar-Person (Israel)

Co-chair: C. Fiandra (Italy)

08:45 > The risk of cardiovascular disease after breast cancer treatment: the clinician's point of view

Speaker: C. Taylor (UK)

SP-0396

- 09:03 > Predicting cardiac toxicity after breast irradiation: new quantitative data and new challenges
Speaker: G. Gagliardi (Sweden) **SP-0397**
- 09:21 > Active surveillance for cardiovascular disease after Hodgkins lymphoma
Speaker: L. Daniels (The Netherlands) **SP-0398**
- 09:39 > Dose to heart substructures is associated with non-cancer death after SBRT in stage I NSCLC patients
B. Stam (The Netherlands), H. Peulen, M. Guckenberger, F. Mantel, A. Hope, J. Belderbos, I. Grills, M. Werner-Wasik, N. O'Connell, J.J. Sonke **OC-0399**
- 09:49 > Risk estimation of cardiac toxicity following craniospinal irradiation of pediatric patients.
G. Engeseth (Norway), C. Stokkevåg, L. Muren **OC-0400**

■ Symposium

EMERGING BIOMARKERS

08:45 - 10:00 | LONDRA

In the coming era of precision medicine, or Personalised Radiation Oncology (PRO), reliable predictive biomarkers are desperately needed. During this symposium, the promises and pitfalls of predictive biomarkers for radiotherapy will be discussed in general. There will be special emphasis on three encouraging biomarker areas. The concept of liquid biopsies will be exemplified by the promising results seen when analysing circulating tumour cells in lung cancer. The concept of classifying solid tumours based on genomic subtypes, especially how genomic classifications can aid in treatment decisions, will be discussed for two of the most abundant cancer types, breast and prostate cancer.

Chair: J. Alsner (Denmark)

Co-chair: R. Corvò (Italy)

- 08:45 > Circulating tumour cells as biomarkers in lung radiotherapy
Speaker: K. Haslett (UK) **SP-0401**
- 09:03 > The fall and raise of predictive radiotherapy biomarkers
Speaker: M. Baumann (Germany) **SP-0402**
- 09:21 > Genomic breast cancer subtype classification for response prediction
Speaker: N. Somaiah (UK) **SP-0403**
- 09:39 > Genomic subtypes in prostate cancer and its influence in treatment response
Speaker: R. Bristow (Canada) **SP-0404**

■ Symposium

SBRT FOR OLIGOMETASTATIC DISEASE

08:45 - 10:00 | AUDITORIUM

The use of SBRT for oligometastatic disease is a developing clinical strategy that harnesses our greater understanding of disease biology and new technology. In this session, we will explore the complex tumour environment with attention to radiation related immuno-modulating mechanisms, its targets and abscopal effects. This session will review the current status, definitions and current evidence for the treatment of oligometastatic disease. Rationale and data will be presented for combination therapies, evaluating the aggressiveness of SBRT approaches, abdomino-pelvic examplers and the clinical decision making process.

Chair: V. Khoo (UK)

Co-chair: V. Donato (Italy)

08:45 > Combining SBRT and immunotherapy: a promising approach?

Speaker: F. Herrera (Switzerland)

SP-0405

09:10 > SBRT for metastatic disease: how far can and should we go?

Speaker: M. Dahele (The Netherlands)

SP-0406

09:35 > Abdominal-pelvic targets

Speaker: M. Hoyer (Denmark)

SP-0407

■ Symposium

HEAD AND NECK: STATE-OF-THE-ART AND DIRECTIONS FOR FUTURE RESEARCH

08:45 - 10:00 | GIALLA

Chair: J. Bourhis (Switzerland)

Co-chair: E.G. Russi (Italy)

08:45 > Molecular targeting with radiotherapy

Speaker: K. Harrington (UK)

SP-0408

09:10 > Immunotherapy for HNSCC: an emerging paradigm?

Speaker: J. Guigay (France)

SP-0409

09:35 > Proton therapy in HNSCC: better than IMRT?

Speaker: C. Rasch (The Netherlands)

SP-0410

Symposium

SBRT IN LUNG - CHOICES AND THEIR IMPACT ON RELATED UNCERTAINTIES

08:45 - 10:00 | ROOM 1

This symposium will review current practice of SBRT in lung from different angles, i.e. view of medical physics, radiation oncology and radiation biology. The impact of dose calculation and fluence optimization on outcome will be addressed, together with aspects of treatment plan robustness against motion. Furthermore dose effect relationships for local tumor control in NSCLC will be presented, and the pitfalls of current treatment/prescription protocols with in-homogeneous dose distributions within the PTV. In this context also the impact of dose profiles on the effective dose delivered to the GTV will be discussed. Furthermore, the balance between maximizing local tumor and minimizing the risk of toxicity will be covered in this symposium. The different "Rs" of radiobiology will be reviewed together with limitations of the LQ model at high doses, since this is often applied for relating morbidity endpoints with current knowledge on toxicity. Finally, new aspects of "high dose biology" will be presented.

Chair: *W. Lechner (Austria)*

Co-chair: *S. Clemente (Italy)*

- 08:45 > Dosimetric aspects and robustness in treatment plan optimisation of small tumours

Speaker: *A. Ahnesjö (Sweden)*

SP-0411

- 09:10 > Does the prescription isodose matter?

Speaker: *M. Guckenberger (Switzerland)*

SP-0412

- 09:35 > To use or not to use the LQ model at "high" radiation doses

Speaker: *W. Dörr (Austria)*

SP-0413

Proffered Papers

PHYSICS 10: FUNCTIONAL IMAGING I

08:45 - 10:00 | ROOM 500

Chair: *M. Philippens (The Netherlands)*

Chair: *S. Agostinelli (Italy)*

- 08:45 > Assessing 4DCT-ventilation as a functional imaging modality for thoracic radiation therapy

Y. Vinogradskiy (USA), L. Schubert, T. Waxweiler, Q. Diot, R. Castillo, E. Castillo, T. Guerrero, C. Rusthoven, L.E. Gaspar, B. Kavanagh, M. Miften

OC-0414

- 08:55 > The effect of breathing motion on CT radiomics feature extraction in oesophageal cancer

R.T.H.M. Larue (The Netherlands), L. Van De Voorde, R.T.H. Leijenaar, M. Berbée, M.N. Sosef, W.J.C. Van Elmpt, P. Lambin

OC-0415

■ INTERDISCIPLINARY

■ RADIOBIOLOGY

■ CLINICAL

■ BRACHYTHERAPY

■ PHYSICS

■ RTT

■ YOUNG

- 09:05 > FDG-PET can objectively quantify esophageal dose-response and toxicity during radiation therapy
J. Niedzielski (USA), Z. Liao, R. Mohan, J. Yang, F. Stingo, D. Gomez, M. Martel, T. Briere, L. Court OC-0416
- 09:15 > Functional imaging using dual energy Computed Tomography and its application in radiation oncology
A. Lapointe (Canada), M.B. Besnier, D.B. Blais, H.B. Bahig, J.G. De Guise, J.F.C. Carrier, E.F. Filion, D.R. Roberge, S.B. Bedwani OC-0417
- 09:25 > Cluster analysis of DCE MRI reveals tumor subregions related to relapse of cervical cancers
T. Torheim (Norway), A.R. Groendahl, E.K.F. Andersen, H. Lyng, E. Malinen, K. Kvaal, C.M. Futsaether OC-0418
- 09:35 > Association between pathology and texture features of multi parametric MRI of the prostate
P. Kuess (Austria), D. Nilsson, P. Andrzejewski, J. Knoth, P. Georg, M. Susani, D. Georg, T. Nyholm OC-0419
- 09:45 > Radiomics in OPSCC: a novel quantitative imaging biomarker for HPV status?
R.T.H. Leijenaar (The Netherlands), S. Carvalho, F.J.P. Hoebbers, S.H. Huang, B. Chan, J.N. Waldron, B. O'Sullivan, P. Lambin OC-0420

■ Symposium

ADAPTIVE TREATMENTS IN THE PELVIC REGION

08:45 - 10:00 | ROOM 3

In this session latest developments in the world of adaptive radiotherapy (ART) are presented. Christel Nomden starts the session, presenting an online adaptive brachytherapy strategy for gynecological cancers. Furthermore, she will pay attention to the future use of the MR-Linac for this treatment site. The second speaker, Yvette Seppenwoolde, will discuss different aspects of implementing ART for cervical cancer into the department. The session will be closed by Rianne de Jong. She will share first clinical experiences of implementing an online adaptive strategy for patients treated for rectal cancer.

Chair: M. Kamphuis (The Netherlands)

Co-chair: C. Galeotti (Italy)

- 08:45 > Brachytherapy pelvic and MRI-Linac combination
Speaker: C. Nomden (The Netherlands) SP-0421
- 09:10 > Clinical implementation of ART for cervix
Speaker: Y. Seppenwoolde (Austria) SP-0422

- 09:35 > Implementation of daily plan selection in rectum
Speaker: R. De Jong (The Netherlands)

SP-0423

■ Poster Viewing 9

RADIOBIOLOGY

08:45 - 10:00 | POSTER AREA

*Chair: T. Brunner (Germany)**Chair: L. Marignol (Ireland)*

- > Cyclin D1 silencing radiosensitises prostate cancer cells by impairing DNA-DSBs repair pathways.
F. Marampon (Italy), G. Gravina, C. Festuccia, A. Colapietro, E. Di Cesare, E. Tombolini

PV-0424
- > EEF2K promotes progression and radioresistance of esophageal squamous cell carcinoma
H.C. Zhu (China), X. Yang, X.L. Ge, J.Y. Chen, H.M. Song, J. Liu, Z.L. Pei, M.Q. Chen, X.C. Sun

PV-0425
- > Targeting PI4K for radiosensitisation: a viable model of drug repositioning
L.A. Kim (Republic of Korea), J. Kwon, Y. Park, D. Kim, J. Park

PV-0426
- > Real-time tumour oxygenation changes following a single high dose radiotherapy in mouse lung cancers
C. Song (Republic of Korea), B.J. Hong, S. Bok, C.J. Lee, Y.E. Kim, S.R. Jeon, H.G. Wu, Y.S. Lee, G.J. Cheon, J.C. Paeng, G.O. Ahn, H.J. Kim

PV-0427
- > Factor 2.5 radiosensitivity difference determined by ex vivo γ H2AX assay in prostate cancer patients
C. De Colle (Italy), A. Menegakis, A.C. Mueller, A. Yaromina, J. Hennenlotter, A. Stenzl, M. Scharpf, F. Fend, U. Ricardi, M. Baumann, D. Zips

PV-0428
- > A 3D in vitro cancer model and imaging platform to measure proton radiation-induced cellular damage
T. Long (UK), M. Loizidou, G. Schettino, G. Royle, K. Ricketts

PV-0429
- > Late radiation enteropathy: do tissue cytokines play a protective role? A first-in-man study.
M. Reis Ferreira (UK), H.J.N. Andreyev, K. Mohammed, S. Gowan, D.P. Dearnaley

PV-0430

■ INTERDISCIPLINARY

■ RADIOBIOLOGY

■ CLINICAL

■ BRACHY THERAPY

■ PHYSICS

■ RTT

■ YOUNG

- > Changes of the density CD8+ tumour infiltrating lymphocytes after neoadjuvant radiochemotherapy
D. Buka (Czech Republic), J. Dvorak, V. Sitorova, I. Richter, I. Sirak
- > Mechanisms and abscopal effects of combined mRNA-based radioimmunotherapy in a syngenic mouse model.
L. Basler (Germany), A. Kowalczyk, M. Fotin-Mleczek, K.J. Kallen, D. Zips, S.M. Huber

PV-0431

PV-0432

■ Symposium

MODERN ART BASED ON FUNCTIONAL / BIOLOGICAL IMAGING

10:45 - 11:45 | ROOM 2

This session covers functional imaging for adaptive radiotherapy, with a focus on head and neck cancer. FDG, hypoxia tracers such as F-MISO and FAZA and tracers for proliferation imaging are interesting PET tracers that may be used in adaptive radiotherapy and for patient selection in targeted therapy. How can these imaging modalities be incorporated in an adaptive workflow and what is the role/responsibility of the RTT in this process? As example the ARTFORCE trial is described, with a discussion on the use of dose accumulation for assessment of local dose. Future perspectives on imaging and adaptive replanning will be addressed.

Chair: *U. Van der Heide (The Netherlands)*

Co-chair: *F. Alongi (Italy)*

- 10:45 > Functional imaging for ART; biological bases and potential impact on clinical outcome
Speaker: B. Hoeben (The Netherlands)
- 11:05 > Adaptive radiation therapy by the example of head and neck cancer: is there any role for a RTT?
Speaker: B. Speleers (Belgium)
- 11:25 > Dosimetric impact of dose painting and replanning: ARTFORCE project
Speaker: J. Sonke (The Netherlands)

SP-0433

SP-0434

SP-0435

■ Symposium

SECONDARY CANCER AFTER RADIOTHERAPY: FROM CANCER REGISTRIES TO CLINICAL IMPLICATIONS

10:45 - 11:45 | ROOM 4

Chair: *L.P. Muren (Denmark)*

Co-chair: *A.R. Filippi (Italy)*

- 10:45 > Radiotherapy-related second cancer risks from epidemiological studies, and their application to newer therapies
Speaker: A. Berrington de González (USA)

SP-0436

- 11:05 > Modelling of secondary cancer risks
Speaker: U. Schneider (Switzerland) SP-0437
- 11:25 > Clinical implications of secondary cancer risks in pediatric and adult patients
Speaker: D. Hodgson (Canada) SP-0438

■ Proffered Papers

RADIOBIOLOGY 4: MOLECULAR BIOMARKERS FOR PATIENT SELECTION

10:45 - 11:45 | LONDRA

Chair: C. West (UK)

Chair: M. De Jong (The Netherlands)

- 10:45 > Localization of p16 expression is an important factor to determine radiotherapy response in HNSCC
R. Dok (Belgium), L. Abbasi Asbagh, E. Van Limbergen, A. Sablina, S. Nuyts OC-0439
- 10:55 > Impact of chemokine receptor CXCR4 and its ligand SDF1 expression on loco-regional control in HNSCC
A. Menegakis (Germany), C. De Colle, D. Moennich, F. Fend, P.S. Mauz, S. Welz, I. Tinhofer, V. Budach, E. Gkika, M. Stuschke, P. Balermipas, C. Roedel, M. Avlar, A.L. Grosu, A. Abdollahi, J. Debus, C. Bayer, C. Belka, S. Pigorsch, S.E. Combs, M. Krause, M. Baumann, D. Zips OC-0440
- 11:05 > Genomic amplification of FancA in HNSCC: mechanisms of radioresistance and clinical relevance
J. Hess (Germany), I. Gimenez Aznar, A. Michna, D. Klein, U. Schötz, M. Orth, L. Schneider, H. Braselmann, L. SchÄ¼ttrumpf, V. Jendrossek, C. Belka, V. Zangen, K. Unger, H. Zitzelsberger, K. Lauber OC-0441
- 11:15 > Does miR-210 predict benefit from hypoxia modification in BCON randomised bladder cancer patients?
C. West (UK), J. Irlam-Jones, A. Eustance, H. Denley, P. Hoskin, A. Choudhury OC-0442
- 11:25 > Radiotherapy sensitivity in breast cancer is influenced by the DNA cytosine deaminase APOBEC3B
P.N. Span (The Netherlands), A. Post, J.W.M. Martens, R.S. Harris OC-0443

Proffered Papers

CLINICAL 9: SBRT AND OLIGOMETASTATIC DISEASE

10:45 - 11:45 | AUDITORIUM

Chair: **J. Bibault (France)**

Chair: **M. Scorsetti (Italy)**

- 10:45 > Stereotactic body radiotherapy of hepatocellular carcinoma lesions in liver transplant candidates
J. Shiao (USA), A. Gutierrez, A. Patel, A. Harris, K. Washburn, G. Halff, J. Lopera, F. Sharkey, R. Crownover OC-0444
- 10:55 > Patterns of care and outcome analysis of SBRT for liver metastases - a DEGRO database initiative
N. Andratschke (Switzerland), H. Alheid, M. Allgäuer, G. Becker, O. Blanck, J. Boda-Hegemann, T. Brunner, S. Combs, M. Duma, S. Gerum, M. Guckenberger, G. Hildebrandt, C. Ostheimer, C. Panje, A. Papachristofilou, C. Petersen, T. Schneider, R. Semrau, S. Wachter, D. Habermehl OC-0445
- 11:05 > Extra-cranial SBRT in patients with oligometastatic disease: a dose-escalation study
F. Deodato (Italy), G. Macchia, S. Cilla, M. Nuzzo, L. Ronchi, A. Ianiro, R. Autorino, G. Mantini, R. Frakulli, S. Cammelli, G. Compagnone, A.L. Angelini, G. Frezza, L. Caravatta, A. Farioli, V. Valentini, A.G. Morganti OC-0446
- 11:15 > Stereotactic Body Radiotherapy (SBRT) in oligometastatic prostate cancer patients
C.L. Chaw (UK), D. Henderson, V. Khoo, A. Tree, R. Eeles, N. Van As OC-0447
- 11:25 > Give me five: extreme hypofractionated IG-IMRT for organ confined prostate cancer
B.A. Jerezek-Fossa, D. Ciardo (Italy), S.P. Colangione, C. Fodor, D. Zerini, A. Cecconi, A. Surgo, M.A. Gerardi, M. Muto, G. Timon, S. Comi, F. Pansini, A. Bazani, D. Maestri, M. Garioni, V. Scroffi, F. Cattani, R. Cambria, O. De Cobelli, R. Orecchia OC-0448

■ Proffered Papers

CLINICAL 10: HEAD AND NECK

10:45 - 11:45 | GIALLA

Chair: W. Budach (Germany)

Chair: D. Alterio (Italy)

- 10:45 > Pattern of failure and disease control in patients treated for glottic cancer in Denmark 1971-2011.
N. Lyhne (Denmark), H. Primdahl, C. Kristensen, E. Andersen, J. Johansen, L. Andersen, J. Overgaard OC-0449
- 10:55 > Failure pattern and salvage treatment after radical treatment of head and neck cancer
A. Pagh (Denmark), C. Grau, J. Overgaard OC-0450
- 11:05 > Tumour volume, hypoxia and cancer stem cells as prognosticators for LRC after primary RCT in HNSCC
A. Linde (Germany), F. Lohaus, S. Löck, V. Gudziol, A. Nowak, C. Von Neubeck, I. Tinhof, V. Budach, A. Sak, M. Stuschke, P. Balermipas, C. Rödel, M. Avlar, A.L. Grosu, A. Abdollahi, J. Debus, C. Belka, S. Pigorsch, S.E. Combs, D. Mönnich, D. Zips, G.B. Baretton, F. Buchholz, M. Baumann, M. Krause OC-0451
- 11:15 > Prospective randomized adaptive dose-de-escalation in the elective neck: late toxicity and control
J. Schatterman (Belgium), D. Nevens, S. Nuyts, D. Berwouts, W. De Gersem, L. Olteanu, T. Vercauteren, W. De Neve, F. Duprez OC-0452
- 11:25 > Phase II trial of de-intensified chemoradiotherapy for HPV-associated oropharyngeal cancer
B. Chera (USA), R. Amdur, J. Tepper, B. Qaqish, R. Green, N. Hayes, J. Weiss, J. Grilley-Olson, A. Zanation, T. Hackman, W. Funkhouser, N. Sheets, M. Weisser, W. Mendenhall OC-0453
- 11:35 > Clinical outcome in nasopharyngeal carcinoma patients with post-radiation detectable plasma EBV DNA
J.C. Lin (Taiwan), W.Y. Wang, C.W. Twu OC-0454

■ Proffered Papers

PHYSICS 11: DOSE MEASUREMENT AND DOSE CALCULATION II

10:45 - 11:45 | ROOM 1

Chair: J. Seuntjens (Canada)

Chair: E. Cagni (Italy)

- 10:45 > Development of activity pencil beam algorithm using nuclear reaction for innovative proton therapy
A. Nishio-Miyatake (Japan), T.N. Teiji Nishio OC-0455
- 10:55 > Translation of a prompt gamma based proton range verification system to first clinical application
C. Richter (Germany), G. Pausch, S. Barczyk, M. Priegnitz, C. Golnik, L. Bombelli, W. Enghardt, F. Fiedler, C. Fiorini, L. Hotoiu, G. Janssens, I. Keitz, S. Mein, I. Perali, D. Prieels, J. Smeets, J. Thiele, F. Vander Stappen, T. Werner, M. Baumann OC-0456
- 11:05 > Towards analytic dose calculation for MR guided particle beam therapy
H. Fuchs (Austria), P. Moser, M. Gröschl, D. Georg OC-0457
- 11:15 > Delivery errors detectability with IQM, a system for real-time monitoring of radiotherapy treatments
L. Marrazzo (Italy), C. Arilli, M. Casati, S. Calusi, C. Talamonti, L. Fedeli, G. Simontacchi, L. Livi, S. Pallotta OC-0458
- 11:25 > Small fields output factors and correction factors determination for a linac with circular cones
A. Girardi (Italy), C. Fiandra, E. Gallio, F.R. Giglioli, R. Ragona OC-0459
- 11:35 > Common errors in basic radiation dosimetry and radiotherapy practice
S. Kry (USA), L. Dromgoole, P. Alvarez, J. Leif, A. Molineu, P. Taylor, D. Followill OC-0460

■ Proffered Papers

PHYSICS 12: TREATMENT PLANNING: APPLICATIONS I

10:45 - 11:45 | ROOM 500

Chair: M. Stock (Austria)

Chair: A. Maggio (Italy)

- 10:45 > Does the dosimetric advantage of prone setup persist in small-margin IMRT for gynecological cancer?
S.T. Heijkoop (The Netherlands), G.H. Westerveld, N. Bijker, R. Feije, A.W. Sharfo, N. Van Wieringen, J.W.M. Mens, B.J.M. Heijmen, L.J.A. Stalpers, M.S. Hoogeman OC-0461
- 10:55 > Motion induced interplay effects for hypo-fractionated FFF VMAT treatment of liver tumours
A. Edvardsson (Sweden), F. Nordström, C. Ceberg, S. Ceberg OC-0462

- 11:05 > Improving treatment plan quality of SBRT lung tumors using a new gradient index
E. Van der Bijl (The Netherlands), M. Witte, C. Van Vliet-Vroegindeweij, E. Damen OC-0463
- 11:15 > Integration of fMRI and MEG functional maps into a Cyberknife planning system: a feasibility study
E. De Martin, D. Duran, F. Ghielmetti, E. Visani, D.R. Sebastiano, D. Aquino, M. Marchetti, D. Cusumano (Italy), M.G. Bruzzone, F. Panzica, L. Fariselli OC-0464
- 11:25 > Quality of treatment plans in hybrid IMRT and VMAT for prostate radiotherapy
J. Bedford (UK), G. Smyth, I. Hanson, A. Tree, D. Dearnaley, V. Hansen OC-0465
- 11:35 > Dynamic Wave Arc: initial characterisation, dosimetric benchmark and performance validation
M. Buleteanu (Belgium), D. Verellen, M. Nakamura, K. Poels, C. Hung, T. Gevaert, J. Dhont, T. Kishi, V. Simon, M. Hiraoka, M. De Ridder OC-0466

■ Proffered Papers

RTT 5: OPTIMIZING TREATMENT PLANNING AND DELIVERY IN THE PELVIC REGION

10:45 - 11:45 | ROOM 3

Chair: A. Osztavics (Austria)

Chair: G. Engeseth (Norway)

- 10:45 > Can a VMAT radiotherapy planning solution match brachytherapy in cervical cancers?
E. Buck (UK), J. Mcgrane, I. Fraser, N. Simpson OC-0467
- 10:55 > Validation of Mask Based Registration in CBCT pretreatment imaging of locally advanced cervix ca
L. Van den Berghe (Belgium), K. Vandecasteele, A.L. Michiels, Y. Lievens, C. De Wagter, E. Bogaert OC-0468
- 11:05 > Genitalia contouring in anal cancer IMRT; comparisons of volumes with and without a genitalia atlas
C. Brooks (UK), V. Hansen, D. Tait OC-0469

- 11:15 > Library of plans in radiotherapy of rectal cancer: feasible and inter-observer consistent?
S. Van Beek (The Netherlands), L. Hartgring, A. Betgen, J. Stam, M. Buijs, B. Van Triest, P. Remeijer OC-0470
- 11:25 > Influence of rectum volume on fine-tuning of image registration in bladder adaptive radiotherapy
L.S. Sier-Wismeijer (The Netherlands), L.J. Lutkenhaus, K.N. Goudschaal, M. Frank, M.C.C.M. Hulshof, A. Bel, N. Van Wieringen OC-0471
- 11:35 > Patient preference-driven plan optimisation for shared decision making in anal cancer radiotherapy
H.S. Rønde (Denmark), J. Pløen, L. Wee, A.L. Appelt OC-0472

■ Poster Viewing 10

PHYSICS: FUNCTIONAL IMAGING II

10:45 - 11:45 | POSTER AREA

Chair: T. Nyholm (Sweden)

Chair: A. Yaromina (The Netherlands)

- > Diagnostic and predictive values of quantitative analysis on T2-w and ADC map MRI in prostate cancer
K. Gnep (France), A. Fargeas, R.E. Gutiérrez-Carvajal, F. Commandeur, R. Mathieu, J.D. Ospina, G. Jimenez, T. Rohou, O. Acosta, R. De Crevoisier PV-0473
- > Comparison of DCE MRI and FMISO-PET kinetic parameters in head and neck cancer patients
U. Simoncic (Germany), S. Leibfarth, S. Welz, N. Schwenzer, H. Schmidt, D. Zips, D. Thorwarth PV-0474
- > Probability map prediction of relapse areas in glioblastoma patients using multi-parametric MR
A. Laruelo (France), J. Dolz, S. Ken, L. Chaari, M. Vermandel, L. Massoptier, A. Laprie PV-0475
- > Fractional anisotropy dose-response relationship of the corpus callosum
N. Pettersson (USA), H. Bartsch, J. Brewer, L. Cervino, M. Connor, A. Dale, D. Hagler, R. Karunamuni, A. Krishnan, J. Kuperman, C. McDonald, N. Farid, N. White, J. Hattangadi-Gluth, V. Moiseenko PV-0476
- > Early CT image biomarkers change and xerostomia score are strong predictors for late xerostomia
L.V. Van Dijk (The Netherlands), C.L. Brouwer, R.J. Beukinga, A. Van de Schaaf, H.P. Van der Laan, H.G.M. Burgerhof, J.A. Langendijk, R.J.H.M. Steenbakkens, N.M. Sijtsema PV-0477

- > Predicting pulmonary function loss in lung cancer radiotherapy patients using CT ventilation imaging
C. Brink (Denmark), J. Kipritidis, K.R. Jensen, T. Schytte, O. Hansen, U. Bernchou

PV-0478

■ Proffered Papers

SELECTED RANDOMISED TRIALS

12:00 - 12:45 | AUDITORIUM

Chair: Y. Lievens (Belgium)**Chair: B. Heijmen (The Netherlands)**

- 12:00 > Neoadjuvant chemoradiation for fixed cT3 or cT4 rectal cancer: results of a phase III study
K. Bujko (Poland), L. Wyrwicz, A. Rutkowski, M. Malinowska, L. Pietrzak, J. Krynski, W. Michalski, W. Polkowski, R. Stylinski, R. Wierzbicki, M. Jankiewicz, B. Cisel, M. Bebenek, A. Maciejczyk, T. Lesniak, J. Zygulska, W. Zegarski, M. Las, L. Kolodziejski, A. Radkowski, B. Czeremyszynska, L. Kepka, Z. Toczko, A. Danek, W. Markiewicz
- 12:10 > Discussant: D. Sebag-Montefiore (UK)
- 12:15 > Five-year clinical outcome of the Phase III ACCORD 12 neoadjuvant trial in rectal cancer
J. Doyen (France), S. Gourgou-Bourgade, D. Azria, I. Martel-Laffray, C. Hennequin, V. Vendrely, G. De Laroche, T. Conroy, J.P. Gérard
- 12:25 > Discussant: C. Rödel (Germany)
- 12:30 > Late toxicity and cosmesis after APBI with brachytherapy vs WBI: 5-year results of a phase III trial
C. Polgár (Hungary), V. Strnad, O. Ott, G. Hildebrandt, D. Kauer-Dorner, H. Knauerhase, T. Major, J. Lyczek, J. Guinot, J. Dunst, C. Gutierrez Miguez, P. Slampa, M. Allgauer, K. Lössl, B. Polat, G. Kovács, A. Fishedick, T. Wendt, M. Hindemith, A. Resch, P. Niehoff, F. Guedea, R. Pötter, C. Gall, W. Uter
- 12:40 > Discussant: P. Poortmans (The Netherlands)

OC-0479

OC-0480

OC-0481

■ Award Lecture

K. BREUR AWARD LECTURE

12:45 - 13:15 | AUDITORIUM

12:45 > Introduction
Chair: P. Poortmans (The Netherlands)

12:50 > Whither fractionation?
Speaker: P. Hoskin (UK)

SP-0482

■ Joint Symposium

ESTRO-ASTRO: IN ROOM ADAPTIVE IMAGING WITH A FOCUS ON MRI

14:30 - 16:00 | ROOM 2

This session will focus on the opportunities ensuing from the use of MRI imaging in radiation oncology, for external beam as well as for brachytherapy.

The physics perspective will not only cover infrastructural needs, dosimetry consequences and MRI-based feedback, but will also shed light on the use of MRI in pre-treatment planning and discuss on-line to real-time plan adaptation.

The speakers will examine clinical goals and clinical experience with the Linac-based MRI device, the ViewRay MR-Guided IMRT system and of using MRI in brachytherapy.

Lastly, workflow practicalities, quality assurance needs and consortium activities will be presented.

Chair: Y. Lievens (Belgium)

Chair: B. Minsky (USA)

14:30 > MRI Linac: physics perspective
Speaker: B. Raaymakers (The Netherlands)

SP-0483

14:52 > First two years clinical experience with low-field MR-IGRT: system practicality and future implications
Speaker: J.M. Michalski (USA)

SP-0484

15:14 > MR-linac: Clinical introduction
Speaker: C. Schultz (USA)

SP-0485

15:36 > Adaptive planning dose delivery and verification with MRI based brachytherapy
Speaker: C. Kirisits (Austria)

SP-0486

■ Symposium

COMMUNICATION WITH PATIENTS

14:30 - 16:00 | ROOM 4

Patients suffer a relevant psychological and social impact of cancer diagnosis and treatment. They have to deal with an array of medical practitioner styles, with their (health professionals' and patients') fears and psychological approaches to coping and sometimes with participation in clinical trials.

In this session we will try to define attitudes and factors acting on healthcare professionals that contribute to a successful communication with patients. Also will be discussed how different strategies could be used to improve and coordinate such communication.

Chair: P.C. Lara Jimenez (Spain)

Co-chair: L. Begnozzi (Italy)

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|-------|---|---------|
| 14:30 | > Patient's Perspective
<i>Speaker: E. Naessens (Ireland)</i> | SP-0487 |
| 14:52 | > Healthcare professional's perspective
<i>Speaker: G. Sancho Pardo (Spain)</i> | SP-0488 |
| 15:14 | > RTT/Nurse's perspective: Patient is the key element of communication
<i>Speaker: L. Koevoets (The Netherlands)</i> | SP-0489 |
| 15:36 | > Interaction between patients and professionals: a psycho-oncologist's view
<i>Speaker: E. Van Hoof (Belgium)</i> | SP-0490 |

■ Symposium

IMAGING BIOLOGY

14:30 - 16:00 | LONDRA

In this session the speakers will give a broad overview of the current status of functional imaging by means of PET and MRI for radiotherapy. Important features such as temporal and spatial resolution and associations with (heterogeneity in) biopsy based genomic signatures and, how this potentially can be used to predict outcome after radiotherapy, will be addressed. Also, the applicability of these imaging strategies for diagnosis and staging as well as target volume delineation and early-RT imaging for adaptation is addressed.

Chair: J. Bussink (The Netherlands)

Co-chair: S. Pergolizzi (Italy)

- | | | |
|-------|--|---------|
| 14:30 | > What do we really see?
<i>Speaker: D. Zips (Germany)</i> | SP-0491 |
| 15:00 | > Genomics and imaging: a pas-de-deux in response prediction
<i>Speaker: H. Lyng (Norway)</i> | SP-0492 |
| 15:30 | > Molecular imaging for radiotherapy optimisation
<i>Speaker: R. Jeraj (Slovenia)</i> | SP-0493 |

■ Debate

THIS HOUSE BELIEVES THAT CENTRALISED LARGE RADIOTHERAPY UNITS WILL PROVIDE THE BEST ACADEMIA AND THE BEST TREATMENT QUALITY

14:30 - 16:00 | AUDITORIUM

Chair: C. Grau (Denmark)

Co-chair: S. Magrini (Italy)

14:30 > For the motion - size matters
Speaker: B. Slotman (The Netherlands)

SP-0494

15:00 > Against the motion - against dinosaurs
Speaker: S. Bodis (Switzerland)

SP-0495

15:30 > For the motion rebuttal
Speaker: B. Slotman (The Netherlands)

15:45 > Against the motion rebuttal
Speaker: S. Bodis (Switzerland)

■ Joint Symposium

ESTRO-ILROG: MODERN RADIOTHERAPY IN LYMPHOMA

14:30 - 16:00 | GIALLA

This session will focus on all different facets of modern lymphoma radiotherapy. In particular, the aims will be to make the attendants more familiar with the current indications, both in terms of standard of care and in terms of controversial situations; concepts regarding new radiation volumes (IS-RT, IN-RT), based on different published ILROG guidelines, will be deeply presented and analysed.

The contribution of modern technology in all different phases of the RT process will be fully discussed (4D-CT, IMRT, IGRT, DIBH), as well as the role of modern imaging in lymphoma radiotherapy (staging and planning needs).

Chair: U. Ricardi (Italy)

Chair: T. Illidge (UK)

14:30 > Indications to radiotherapy for lymphoma in 2016: what is standard of care and what remains controversial?
Speaker: J. Yahalom (USA)

SP-0496

15:00 > New concepts for lymphoma radiotherapy and the use of advanced technology
Speaker: L. Specht (Denmark)

SP-0497

15:30 > Modern imaging and radiotherapy in lymphoma
Speaker: G. Mikhael (UK)

SP-0498

■ Joint Symposium

ESTRO-PTCOG: ART IN PARTICLE THERAPY

14:30 - 16:00 | ROOM 1

Chair: *M. Schwarz (Italy)*

Chair: *A. Lomax (Switzerland)*

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|-------|---|---|---------|
| 14:30 | > | The need for adaptive approaches in proton therapy (compared to photons)
<i>Speaker:</i> <i>M. Schwarz (Italy)</i> | SP-0499 |
| 14:45 | > | Cone beam CT for adaptive proton therapy
<i>Speaker:</i> <i>S. Both (USA)</i> | SP-0500 |
| 15:05 | > | Adaptive practice and techniques in proton therapy of the lung
<i>Speaker:</i> <i>P.C. Park (USA)</i> | SP-0501 |
| 15:25 | > | In-vivo range estimation and adaptive particle therapy
<i>Speaker:</i> <i>T. Lomax (Switzerland)</i> | SP-0502 |
| 15:40 | > | European strategy
<i>Speaker:</i> <i>M. Baumann (Germany)</i> | SP-0503 |

■ Symposium

SMALL ANIMAL IRRADIATION

14:30 - 16:00 | ROOM 500

Chair: *U. Oelfke (UK)*

Co-chair: *L. Strigari (Italy)*

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|-------|---|---|---------|
| 14:30 | > | Preclinical radiotherapy technology, dosimetry and treatment planning
<i>Speaker:</i> <i>K. Butterworth (UK)</i> | SP-0504 |
| 15:00 | > | Radiation biology studies with a small animal irradiator: results from the research programme at Johns Hopkins University
<i>Speaker:</i> <i>P. Tran (USA)</i> | SP-0505 |
| 15:30 | > | How do we select meaningful pre-clinical models for studies in radiation biology?
<i>Speaker:</i> <i>D. De Ruyscher (The Netherlands)</i> | SP-0506 |

■ Symposium

FOCUS ON THE PELVIC REGION

14:30 - 16:00 | ROOM 3

This session will focus on issues relating to pelvic radiation therapy and shared decision making in this patient cohort. Our session opens with a discussion on bladder filling and its impact on pelvic radiation

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therapy treatment. This will be followed by the merits of intraprostatic fiducial markers and the potential for fiducial migration will be analysed. We conclude our session with an overview of shared decision making and the validation of a decision aid tool for shared decision making in prostate cancer.

Chair: L. Mullaney (Ireland)

Co-chair: C. Dionisi (Italy)

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|-------|---|--|---------|
| 14:30 | > | Bladder variability for pelvic radiotherapy: its approaches and impact
<i>Speaker: V. Khoo (UK)</i> | SP-0507 |
| 15:00 | > | An evaluation of GoldAnchor intraprostatic fiducial marker stability during radiotherapy
<i>Speaker: D. Bodusz (Poland)</i> | SP-0508 |
| 15:30 | > | Validation of a prostate cancer decision aid tool for shared decision making
<i>Speaker: E. Bloemen- van Gulp (The Netherlands)</i> | SP-0509 |

■ Poster Viewing 11

CLINICAL: BREAST, HEAD AND NECK

14:30 - 16:00 | POSTER AREA

Chair: V. Grégoire (Belgium)

Chair: A. Fozza (Italy)

- | | | |
|---|--|---------|
| > | Evaluation of a breast cancer nomogram to predict local relapse after breast conserving therapy
<i>L. Kindts (Belgium), A. Laenen, S. Peeters, H. Janssen, T. Depuydt, E. Van Limbergen, C. Weltens</i> | PV-0510 |
| > | Hypofractionated VMAT for early stage breast cancer: acute toxicity and cosmesis in 840 patients
<i>C. Iftode (Italy), F. De Rose, D. Franceschini, A. Fogliata, E. Villa, A.M. Ascolese, P. Navarra, G.R. D'Agostino, C. Franzese, T. Comito, A. Tozzi, E. Clerici, R.L.E. Liardo, A. Stravato, M. Scorsetti</i> | PV-0511 |
| > | Accelerated partial breast irradiation for Luminal-A breast cancer: analysis from a phase 3 trial
<i>L. Meattini (Italy), C. Saieva, I. Desideri, G. Simontacchi, L. Marrazzo, S. Scoccianti, C. De Luca Cardillo, V. Scotti, P. Bonomo, M. Mangoni, F. Rossi, J. Nori, D. Casella, M. Bernini, L. Sanchez, L. Orzalesi, S. Pallotta, S. Bianchi, L. Livi</i> | PV-0512 |

- > The impact of chemotherapy on toxicity in the era of hypofractionated radiotherapy
M.C. De Santis (Italy), F. Di Salvo, F. Bonfantini, M. Dispinzieri, M. Franceschini, F. Soncini, E.D. Mantero, V. Cosentino, D. Postè, P. Baili, M. Sant, E. Pignoli, L. Lozza

PV-0513
- > Chest wall radiotherapy and complications after flap reconstruction
Y. Rao (USA), A. Mull, A. Qureshi, T. Myckatyn, I. Zoberi

PV-0514
- > GTV delineation of laryngopharyngeal carcinoma on PET is more accurate than on CT and MRI
H. Ligtenberg (The Netherlands), E.A. Jager, J. Caldas-Magalhaes, T. Schakel, N. Kasperts, F.A. Pameijer, N. Kooij, L.M. Janssen, C.H.J. Terhaard, S.M. Willems, C.P.J. Raaijmakers, M.E.P. Philippens

PV-0515
- > Guideline development for tumor delineation on MR-images for laryngeal and hypopharyngeal cancer
E. Jager, N. Raaijmakers (The Netherlands), H. Ligtenberg, J. Caldas-Magalhaes, T. Schakel, F. Pameijer, N. Kasperts, N. Willems, C. Terhaard, M. Philippens

PV-0516
- > Upfront vs. no upfront neck dissection in primary head and neck cancer radio(chemo)therapy
D. Nevens (Belgium), F. Duprez, K. Bonte, P. Deron, W. Huvenne, A. Laenen, W. De Neve, S. Nuyts

PV-0517
- > Phase 1 study of Debio 1143 in combination with Concurrent Chemo-Radiotherapy in LA-SCCHN
Y. Tao (France), C. Le Tourneau, H. Bouchaab, J. Delord, V. Calugaru, P. Crampton, B. Gavillet, E. Rouits, C. Zanna, C. Schusterbauer, E. Deutsch, J. Bourhis

PV-0518
- > The hypoxic radiosensitizer, nimorazole, in RT of HNSCC: pharmacokinetics, toxicity and compliance
M.A.H. Metwally (Denmark), J. Overgaard

PV-0519

■ Multidisciplinary Tumour Board

SESSION 3: OLIGOMETASTATIC DISEASE

14:30 - 15:45 | ISTANBUL

Chair: M. Hoyer (Denmark)

yESTRO

Panellist: J-E Bibault (France)

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Medical oncologist

Panellist: M. Di Maio (Italy)

Interventional radiologist

Panellist: A. Veltri (Italy)

Thoracic surgeon

Panellist: E. Ruffini (Italy)

■ Symposium

DOSE PAINTING: THOSE PENDING ISSUES

16:45 - 17:45 | ROOM 2

Dose painting is the delivery of a non-uniform dose distribution according to a spatial distribution of a given phenotype of the tumour volume, supposedly provided by functional imaging (PET, MR...). Such strategy would enable tailored dose escalation/redistribution in radio resistant regions of the tumour volume, mitigating toxicity issues that would originate from a flat, homogeneous dose escalation.

Although conceptually appealing and relatively simple in its formulation, a dose painting treatment strategy involves a complex chain of technical steps with uncertainties that could ultimately make the delivered dose distribution unrepresentative of the actual biology of the tumour.

In this symposium, we will first define the biological and clinical rationale supporting the dose painting concept before covering the challenges to be solved before a meaningful clinical implementation.

Chair: E. Sterpin (Belgium)

Co-chair: P. Franco (Italy)

16:45 > The promises of dose painting

Speaker: W. De Neve (Belgium)

SP-0520

17:05 > The biological rationale of dose painting: is it realistic?

Speaker: M. Alber (Denmark)

SP-0521

17:25 > Dose prescription and treatment delivery at the voxel scale: a fantasy?

Speaker: J. Lee (Belgium)

SP-0522

■ Symposium

ACROP

16:45 - 17:45 | ROOM 4

Since 2012 the Advisory Committee for Radiation Oncology Practice (ACROP) has taken over the responsibility for the initiation and coordination of ESTRO internal guidelines as well as multidisciplinary guidelines together with other scientific societies.

During this ESTRO 35 ACROP session C. Belka will present the workflow and SOP of ACROP;

K. Tanderup will give a brief overview of the ongoing and mature guidelines in the areas of brachtherapy and physics; and, M. Niyazi will present the new guideline on 'Target volume delineation in Glioblastoma'.

Chair: C. Belka (Germany)

Co-chair: E. Gershkevitsh (Estonia)

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|-------|---|---------|
| 16:45 | > ACROP: General procedures, SOPs and current status
<i>Speaker: C. Belka (Germany)</i> | SP-0523 |
| 17:05 | > Clinical guidelines, update and introduction of recent clinical guidelines
<i>Speaker: M. Niyazi (Germany)</i> | SP-0524 |
| 17:25 | > Brachytherapy and physics guidelines, update and introduction of recent guidelines
<i>Speaker: K. Tanderup (Denmark)</i> | SP-0525 |

■ Proffered Papers

RADIOBIOLOGY 5: IMAGING AND MOLECULAR BIOMARKERS IN RADIATION ONCOLOGY

16:45 - 17:45 | LONDRA

Chair: G. Ghobadi (The Netherlands)

Chair: A. Grosu (Germany)

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|-------|---|---------|
| 16:45 | > Noninvasive imaging of the PD-1/PD-L1 checkpoint in naïve mice and after combined radioimmunotherapy
<i>M. Hettich (Germany), F. Braun, G. Niedermann</i> | OC-0526 |
| 16:55 | > Monitoring mitochondrial complex-I using novel PET probe allows early detection of radiosensitivity
<i>C. Murayama (Japan), A. Kawaguchi, A. Kamijo, K. Naito, M. Kanazawa, H. Tsukada</i> | OC-0527 |
| 17:05 | > Modelling tissue radiosensitivity and PET hypoxia image contrast in acute and chronic hypoxia
<i>D.R. Warren (UK), M. Partridge</i> | OC-0528 |
| 17:15 | > A MR-based IGRT platform using the KPC transgenic mouse model of pancreatic cancer
<i>J. Thompson, J. Beech, D. Allen, S. Gilchrist, R. Newman, P. Kinchesch, A. Gomes, Z. D'Costa, L. Bird, K. Vallis, R. Boghazian, A. Kavanagh, O. Sansom, I. Tullis, R. Muschel, M. Hill, B. Vojnovic, S. Smart, E. Fokas (UK)</i> | OC-0529 |
| 17:25 | > Nanoparticle-enhanced MRI-guided radiation therapy
<i>A. Detappe (USA), S. Kunjachan, O. Tillement, R. Berbeco</i> | OC-0530 |

■ Proffered Papers:

CLINICAL 11: HEALTH ECONOMICS AND PATIENT REPORTED OUTCOMES

16:45 - 17:45 | AUDITORIUM

Chair: G. Delaney (Australia)

Chair: V. De Sanctis (Italy)

- 16:45 > Time driven activity based costing: a conceptual framework for cost assessment in radiation therapy
N. Defourny (Belgium), P. Dunscombe, L. Perrier, C. Grau, M. Coffey, J. Van Loon, C. Gasparotto, Y. Lievens OC-0531
- 16:55 > Improved cost-effectiveness of short-course radiotherapy in elderly or frail glioblastoma patients
S. Baker (Canada), S. Ghosh, D. Guedes de Castro, L. Kepka, N. Kumar, V. Sinaika, J. Matiello, D. Lomidze, K. Dytus-Cebulok, E. Rosenblatt, E. Fidarova, W. Roa OC-0532
- 17:05 > TGUGT and G8 tests predicting frailty and radiotherapy compliance and acute toxicity in the elderly
J. Middelburg (The Netherlands), T. Rozema, H. Maas, E. Baartman, M. Aarts, D. Geijsen, A. Leest, J. Jobsen, J. Coebergh, H. Struikmans OC-0533
- 17:15 > No decline in patient reported outcomes following radiotherapy for breast cancer patients ≥ 60 years
K.R. Charaghvandi (The Netherlands), D.A. Young-Afat, C.H. Van Gils, M.L. Gregorowitsch, B. Van Asselen, M. Van Vulpen, H.M. Verkooijen, H.J.G.D. Van den Bongard OC-0534
- 17:25 > How patient-reported urinary symptoms predict impairment of urinary QoL from RT for prostate cancer
C. Cozzarini (Italy), F. Badenchini, T. Rancati, G. Girelli, P. Gabriele, C. Degli Esposti, P. Franco, V. Vavassori, M. Galeandro, C. Bianconi, C. Improta, F. Palorini, R. Valdagni, C. Fiorino OC-0535
- 17:35 > Course of quality of life after radiotherapy for painful bone metastases
P. Westhoff (The Netherlands), M. Verdam, F. Oort, J. Jobsen, M. Van Vulpen, J.W. Leer, C. Marijnen, A. De Graeff, Y. Van der Linden OC-0536

■ Proffered Papers

CLINICAL 12: RARE TUMOURS

16:45 - 17:45 | GIALLA

Chair: E.M. Ozsahin (Switzerland)

Chair: A. De Paoli (Italy)

- 16:45 > p16 and high risk-HPV in node positive cutaneous squamous cell carcinoma of the head and neck
L. McDowell (Australia), R. Young, M. Johnston, T. Tan, C. Liu, M. Bressel, V. Estall, B. Solomon, J. Corry OC-0537
- 16:55 > Tumor-related leukocytosis associated with poor radiation response and outcome in cervical cancer
Y. Cho (Republic of Korea), K. Kim, K. Keum, C. Suh, G. Kim, Y. Kim OC-0538
- 17:05 > Stage II testicular seminoma: patterns of care and survival by treatment strategy
S.M. Glaser (USA), G.K. Balasubramani, S. Beriwal OC-0539
- 17:15 > IOERT after gross total resection combined with EBRT in extremity sarcoma: a pooled analysis
F. Roeder (Germany), A. De Paoli, I. Alldinger, G. Bertola, G. Boz, J. Garcia-Sabrido, M. Uhl, A. Alvarez, B. Lehner, F. Calvo, R. Krempien OC-0540
- 17:25 > Long-term results of the AIEOP MH-89 protocol for pediatric Hodgkin lymphoma
M. Robazza (Italy), M. Mascarin, C. Elia, A. Todesco, G. Scarzello, A. Pession, A. Garaventa, S. Barra, M. Zecca, N. Santoro, M. Bianchi, U. Riccardi, F. Locatelli, R. De Santis, P. Indolfi, M. Nardi, F. Porta, T. Casini, C. Consarino, S. D'Amico, M. Provenzi, G.A. Zanzazzo, P. Farruggia, G. Guerrini, R. Burnelli OC-0541
- 17:35 > Benign tumours among long-term childhood cancer survivors: a DCOG LATER record linkage study
J. Kok (The Netherlands), J. Teepen, H. Van der Pal, W. Dolsma, E. Van Dulmen-den Broeder, M. Van den Heuvel-Eibrink, J. Loonen, W. Tissing, D. Bresters, B. Versluys, S. Neggers, M. Van der Heiden-van der Loo, F. Van Leeuwen, H. Caron, F. Oldenburger, G. Janssens, J. Maduro, R. Tersteeg, C. Van Rij, L. Daniels, C. Haasbeek, The DCOG LATER Study Group, A. Gijsbers-Bruggink, L. Kremer, C. Ronckers OC-0542

■ Proffered Papers

PHYSICS 13: NEW TECHNOLOGY AND QA

16:45 - 17:45 | ROOM 1

Chair: J. Legendijk (The Netherlands)

Chair: C. Marino (Italy)

- 16:45 > Technical development and clinical implementation of an MR-guided radiation therapy environment
T. Stanescu (Canada), S. Breen, C. Dickie, D. Letourneau, D. Jaffray OC-0543

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- 16:55 > Heterogeneous FDG-guided dose escalation of locally advanced NSCLC, the NARLAL2 phase III trial
D.S. Moeller (Denmark), L. Hoffmann, C.M. Lutz, T.B. Nielsen, C. Brink, A.L. Appelt, M.D. Lund, M.S. Nielsen, W. Ottosson, A.A. Khalil, M.M. Knap, O. Hansen, T. Schytte OC-0544
- 17:05 > Results of a national audit of IMRT and VMAT patient QA
E. Seravalli (The Netherlands), A.C. Houweling, M.P.R. Van Gellekom, J. Kaas, M. Kuik, E.A. Loeff, T.A. Raaben, J.A. De Pooter, J.H.W. De Vries, J.B. Van de Kamer OC-0545
- 17:15 > The development of proton-beam grid therapy (PBG T)
T. Henry (Sweden), A. Valdman, A. Siegbahn OC-0546
- 17:25 > Towards Portal Dosimetry for the MR-linac: back-projection algorithm in the presence of MRI scanner
I. Torres Xirau (The Netherlands), R. Rozendaal, I. Olaciregui-Ruiz, P. Gonzalez, U. Van der Heide, J.J. Sonke, A. Mans OC-0547
- 17:35 > Hyperthermia treatment planning in the pelvis using thermophysical fluid modelling of the bladder
G. Schooneveldt (The Netherlands), H.P. Kok, E.D. Geijsen, A. Bakker, E. Balidemaj, J.J.M.C.H. De la Rosette, M.C.C.M. Hulshof, T.M. De Reijke, J. Crezee OC-0548

■ Proffered Papers

PHYSICS 14: TREATMENT PLANNING: APPLICATIONS II

16:45 - 17:45 | ROOM 500

Chair: M. Tenhunen (Finland)

Chair: E. Moretti (Italy)

- 16:45 > The effects of a magnetic field and real-time tumor tracking on lung stereotactic body radiotherapy
M.J. Menten (UK), M.F. Fast, S. Nill, C.P. Kamerling, F. McDonald, U. Oelfke OC-0549
- 16:55 > Investigation of magnetic field effects for the treatment planning of lung cancer
O. Schrenk (Germany), C.K. Spindeldreier, A. Pfaffenberger OC-0550
- 17:05 > Advantage of IMPT over IMRT in treatment of gynaecological cancer with para-aortic nodal involvement
M. Van de Sande (The Netherlands), C.L. Creutzberg, S. Van de Water, A.W. Sharfo, M.S. Hoogeman OC-0551

- 17:15 > Skin-NTCP driven optimization for breast proton treatment plans
L. Cella (Italy), F. Tommasino, V. D'Avino, G. Palma, F. Pastore, M. Conson, M. Schwarz, R. Liuzzi, R. Pacelli, M. Durante OC-0552
- 17:25 > Relative risks of radiation-induced secondary cancer following particle therapy of prostate cancer
C. Stokkevåg (Norway), M. Fukahori, T. Nomiya, N. Matsufuji, G. Engeseth, L. Hysing, K. Ytre-Hauge, A. Szostak, L. Muren OC-0553
- 17:35 > Robustness recipe for minimax robust optimisation in IMPT for oropharyngeal cancer patients
S. Van der Voort, S. Van de Water, Z. PerkóB. Heijmen, D. Lathouwers, M. Hoogeman (The Netherlands) OC-0554

■ Proffered Papers

RTT 6: ADVANCED RADIATION TECHNIQUES IN PROSTATE CANCER

16:45 - 17:45 | ROOM 3

Chair: R. De Jong (The Netherlands)

Chair: U. Shah (UK)

- 16:45 > Organ at risk dose parameters increased by daily anatomic changes in prostate cancer SBRT
M. Faasse-de Hoog (The Netherlands), M.S. Hoogeman, J.J.M.E. Nuytens, S. Aluwini OC-0555
- 16:55 > Early clinical outcomes of prostate SABR treated with VMAT-FFF
A. Duffton (UK), C. Duncanson, S. Paterson, L. Dallas, S. Smith, M. McJury, C. Lamb, N. MacLeod, A. Sadozye, D. Dodds OC-0556
- 17:05 > Feasibility of single fraction HDR brachytherapy in patients with prostate cancer: a planning study
M. Roos (The Netherlands), C. De Pan, I.K.K. Kolkman-Deurloo, S. Aluwini OC-0557
- 17:15 > Automated VMAT planning in prostate cancer patients using a Single Arc SIB Technique
N. Simpson (UK), G. Simpson, R. Laney, A. Thomson, D. Wheatley, R. Ellis, J. Mcgrane OC-0558
- 17:25 > The impact of rectal interventions on target motion and rectal variability in prostate radiotherapy
C. Smith (Ireland), B. O'Neill, L. O'Sullivan, M. Keaveney, L. Mullaney OC-0559

- 17:35 > Plan of the day approach in post prostatectomy radiation therapy
C. Lac (Australia), A. Sims, T. Eade, A. Kneebone

OC-0560

■ Poster Viewing 12

PHYSICS: DOSE MEASUREMENT AND DOSE CALCULATION III

16:45 - 17:45 | POSTER AREA

Chair: J. Van de Kamer (The Netherlands)

Chair: P.S. Skyt (Denmark)

- > Validation of an optimised MC dose prediction for low energy X-rays intraoperative radiation therapy
P. Ibáñez (Spain), M. Vidal, P. Guerra, J.M. Udías
- > Hadron-therapy monitoring with in-beam PET: measurements and simulations of the INSIDE PET scanner
F. Pennazio (Italy), M. Bisogni, N. Camarlinghi, P. Cerello, E. Fiorina, M. Morrocchi, M. Piliero, G. Pirrone, R. Wheadon
- > Dosimetric comparisons of 1H, 4He, 12C and 16O ion beams at HIT
T. Tessonnier (Germany), A. Mairani, S. Brons, T. Haberer, J. Debus, K. Parodi
- > Experimental validation of proton stopping power calculations based on dual energy CT imaging
J.K. Van Abbema (The Netherlands), M.J. Van Goethem, J. Mulder, A.K. Biegun, M.J.W. Greuter, A. Van der Schaaf, S. Brandenburg, E.R. Van der Graaf
- > Dosimetric response maps of diode and diamond detectors in kilovoltage synchrotron beams
T. Wright (Australia), D. Butler, A. Stevenson, J. Livingstone, J. Crosbie
- > Improving image reconstruction for Compton camera based imaging for proton radiotherapy verification
E. Draeger (USA), S. Peterson, D. Mackin, S. Beddar, J. Polf

PV-0561

PV-0562

PV-0563

PV-0564

PV-0565

PV-0566

TUESDAY 8 APRIL 2014

ABS. N°

■ Teaching Lecture

THE NEW 'R'S IN RADIATION BIOLOGY

08:30 - 09:10 | ROOM 2

Chair: A. Nahum (UK)

- 08:30 > The new 'R's in radiation biology
Speaker: M. De Jong (The Netherlands)

SP-0567

■ Teaching Lecture

TEXTURE ANALYSIS OF MEDICAL IMAGES IN RADIOTHERAPY

08:30 - 09:10 | ISTANBUL

Chair: TBC

- 08:30 > Texture analysis of medical images in radiotherapy
Speaker: E. Scalco (Italy)

SP-0568

■ Teaching Lecture

BIOLOGY OF HIGH-ENERGY PROTON AND HEAVY ION PARTICLE THERAPY VERSUS PHOTON THERAPY: RECENT DEVELOPMENTS

08:30 - 09:10 | LONDRA

Chair: F. Paris (France)

- 08:30 > Biology of high-energy proton and heavy ion particle therapy versus photon therapy: recent developments
Speaker: M. Pruschy (Switzerland)

SP-0569

■ Teaching Lecture

NEUROENDOCRINE TUMOURS - PERSONALISED DIAGNOSIS AND TREATMENT USING RADIOLABELLED PEPTIDES

08:30 - 09:10 | GIALLA

Chair: J. Kazmierska (Poland)

- 08:30 > Neuroendocrine tumours - personalised diagnosis and treatment using radiolabelled peptides
Speaker: R. Baum (Germany)

SP-0570

■ INTERDISCIPLINARY ■ RADIOBIOLOGY ■ CLINICAL ■ BRACHYTHERAPY ■ PHYSICS ■ RTT ■ YOUNG

■ **Teaching Lecture**

RADIOTHERAPY FOR PAEDIATRIC BRAIN TUMOURS

08:30 - 09:10 | Room 4

Chair: N. Burnet (UK)

08:30 > Radiotherapy for paediatric brain tumours

Speaker: R. Kortmann (Germany)

SP-0571

■ **Teaching Lecture**

ROLE AND VALIDATION OF DEFORMABLE IMAGE REGISTRATION IN CLINICAL PRACTICE

08:30 - 09:10 | ROOM 1

Chair: M. Söhn (Germany)

08:30 > Role and validation of deformable image registration in clinical practice

Speaker: M. Van Herk (UK)

SP-0572

■ **Teaching Lecture**

VMAT QA: TO DO AND NOT TO DO, THOSE ARE THE QUESTIONS

08:30 - 09:10 | ROOM 500

Chair: M.d.C. Lopes (Portugal)

08:30 > VMAT QA: To do and not to do, those are the questions

Speaker: J. Van de Kamer (The Netherlands)

SP-0573

■ **Teaching Lecture**

OPTIMISING WORKFLOW IN A RADIOTHERAPY DEPARTMENT - AN INTRODUCTION TO LEAN THINKING

08:30 - 09:10 | ROOM 3

Chair: B. Bak (Poland)

08:30 > Optimising workflow in a radiotherapy department - an introduction to lean thinking

Speaker: B. Naddy (Ireland)

SP-0574

Symposium

NEW CONCEPTS OF TUMOUR RADIORESISTANCE

09:15 - 10:30 | ROOM 2

The session will address tumour radioresistance in relation to cancer stem cells, immunology and next generation sequencing. The talks will cover: 1) evidence that radiotherapy can cause immunogenic cell death and that combined radiotherapy and immunotherapy can cause systemic long-term effects. 2) Evidence that cancer stem cells are radioresistant and that DNA damage response inhibitors can overcome the radioresistance and have therapeutic potential. 3) The potential of molecular profiling by next-generation sequencing for dissecting mechanisms of resistance to radiotherapy/chemoradiation, as exemplified by results from a recent multicenter trial in locally advanced head and neck cancer.

Chair: R. Syljuasen (Norway)

Co-chair: R. Santoni (Italy)

09:15 > Radiotherapy combined with immunotherapy: present status and future perspectives

Speaker: P. Lambin (The Netherlands)

SP-0575

09:40 > The contribution of cancer stem cells to tumour radioresistance

Speaker: A. Chalmers (UK)

SP-0576

10:05 > Novel insights in radioresistance of head and neck cancer

Speaker: I. Tinhofer-Keilholz (Germany)

SP-0577

Symposium with Proffered Papers

TOWARDS PERSONALISED RADIATION ONCOLOGY (PRO)

09:15 - 10:30 | ISTANBUL

Personalised Radiation Oncology (PRO), integrating omics technology, is a rapidly developing concept that will have an enormous impact on radiation therapy in the near future. Besides fascinating science PRO brings also major new challenges before the concept can be successfully translated into the clinic, e.g. understanding the potential and limitations of modern omics technologies, interpretation of results and integration with established clinical parameters to personalise treatment. In this session we will inform and discuss about developments in genomics, results from studies using gene expression profiles and data integration approaches. We aim for interdisciplinary audience, i.e. the presentations will be understandable also for non-experts. In addition, we will discuss where we are today (ready for implementation?) or what needs to be done to accelerate translation of PRO into the clinics.

Chair: D. Zips (Germany)

Co-chair: V. Tombolini (Italy)

09:15 > New technologies for genomic tumour profiling

Speaker: W. Weichert (Germany)

SP-0578

09:30 > Gene expression profiles in tumours for PRO

Speaker: J. Alsner (Denmark)

SP-0579

■ INTERDISCIPLINARY
 ■ RADIOBIOLOGY
 ■ CLINICAL
 ■ BRACHYTHERAPY
 ■ PHYSICS
 ■ RTT
 ■ YOUNG
■ INTERDISCIPLINARY WITH RADIOBIOLOGY FOCUS

- 09:45 > GWAS, SNPs and normal tissue toxicity for personalised radiation oncology
Speaker: C. West (UK) **SP-0580**
- 10:00 > Integrative data analysis for PRO
Speaker: M.A. Gambacorta (Italy) **SP-0581**
- 10:15 > Gene signatures predict loco-regional control after postoperative radio-chemotherapy in HNSCC
S. Schmidt (Germany), A. Linge, F. Lohaus, V. Gudziol, A. Nowak, I. Tinhofer, V. Budach, A. Sak, M. Stuschke, P. Balermipas, C. Rödel, M. Avlar, A.L. Grosu, A. Abdollahi, J. Debus, C. Belka, S. Pigorsch, S.E. Combs, D. Mönlich, D. Zips, G.B. Baretton, F. Buchholz, M. Baumann, M. Krause, S. Löck **OC-0582**

■ Symposium

THE TUMOUR IN 3D: THE ROLE OF TUMOUR MICROENVIRONMENT

09:15 - 10:30 | LONDRA

The microenvironment is an integral part of normal and tumour tissue development, homeostasis and 3D architecture. For the generation of clinically relevant data, we need to take these characteristics into consideration. Recent observations using 3D cell culture models provide evidence that the cellular response to irradiation is similar to the effects seen in tissues and different from conventional 2D cell cultures. In this symposium, we will show the advantage of 3D cell culture models over 2D and how they can be used for (i) testing tumor and normal cell radiation responses with and without chemotherapy/novel molecular drugs and (ii) expansion of stem cells for therapy. Further, we will demonstrate the differential impact of hypo- and hyperfractionation radiotherapy on the immune system.

Chair: N. Cordes (Germany)

Co-chair: G.L. Gravina (Italy)

- 09:15 > Relevance of 3D cultures to address radiation response and novel RT combination strategies
Speaker: N. Cordes (Germany) **SP-0583**
- 09:33 > The potential of normal tissue organoid cultures
Speaker: R. Coppes (The Netherlands) **SP-0584**
- 09:51 > The impact of a novel 3D cell culture model of glioblastoma on radiation and drug-radiation responses
Speaker: N. Gomez-Roman (UK) **SP-0585**
- 10:09 > Radiotherapy supports tumour-specific immunity
Speaker: M. Van den Broek (Switzerland) **SP-0586**

■ Symposium

WBRT FOR BRAIN METASTASES- THE END OF AN ERA?

09:15 - 10:30 | GIALLA

This session will address an actual outline of the efficacy of whole brain radiotherapy (WBRT) in the treatment of multiple brain metastases. First speaker, Paula Mulvenna, will give an overview of WBRT including history, aims and toxicities. Additionally, she will shortly present the outcomes of the MRC QUARTZ trial. Luis Schiappacasse will address the role of stereotactic radiosurgery to treat limited and extensive brain metastases especially in conjunction with WBRT. Finally, Rafal Dziadziuszko will present systemic therapies for the treatment of brain metastases originated from lung and breast cancer with focus on chemotherapy alone or in combination with radiotherapy.

Chair: B. Timmermann (Germany)

Co-chair: D. Greto (Italy)

09:15 > Whole brain radiotherapy for brain metastases - the end of an era?
Speaker: P. Mulvenna (UK)

SP-0587

09:40 > Focal radiotherapy for multiple brain metastases
Speaker: L. Schiappacasse (Switzerland)

SP-0588

10:05 > Role of systemic therapy in the treatment of brain metastases
Speaker: R. Dziadziuszko (Poland)

SP-0589

■ Symposium

RADIOTHERAPY "AUTOVACCINATION"; WITH SYSTEMIC IMMUNE MODULATORS FOR MODERN IMMUNOTHERAPY

09:15 - 10:30 | ROOM 4

The current understanding of the impact of radiation therapy on anti tumour immunity has changed our understanding of tumour resistance to radiotherapy which is no longer perceived as the only consequence of tumour cells intrinsic clonogenic resistance to cell kill.

The interplay between tumour cells and the immune stroma is influenced by cell death triggered by irradiation which dictates the immunological response. Immune checkpoints inhibitors may increase tumour response and also propagate systemic anti tumour immune response thus converting the tumour into an immunogenic hub.

Chair: E. Deutsch (France)

Co-chair: M. Trovo (Italy)

09:15 > Should the combined treatment be part of our field of knowledge?
The 5th 'R' (immune-mediated) rejection of radiobiology
Speaker: P.C. Lara Jimenez (Spain)

SP-0590

09:40 > Radiotherapy for immunotherapy: optimising the doses and fractionation
Speaker: S. Demaria (USA)

SP-0591

■ INTERDISCIPLINARY

■ RADIOBIOLOGY

■ CLINICAL

■ BRACHYTHERAPY

■ PHYSICS

■ RTT

■ YOUNG

- 10:05 > Combining immunotherapy and anticancer agents: the right path to achieve cancer cure?
Speaker: L. Apetoh (France)

SP-0592

■ Joint Symposium

ESTRO-AAPM-EFOMP: FUNCTIONAL / BIOLOGICAL IMAGING AND RADIOTHERAPY PHYSICISTS: NEW REQUESTS/CHALLENGES AND THE NEED FOR BETTER AND MORE SPECIFIC TRAINING

09:15 - 10:30 | ROOM 1

*Chair: C. Fiorino (Italy)**Chair: A. Torresin (Italy)*

- 09:15 > The role of the medical physicist in integrating quantitative imaging in RT: practical and organisational issues
Speaker: G.M. Cattaneo (Italy)

SP-0593

- 09:35 > Individualised image-guided adaptive therapy in Michigan: lessons learned from clinical trial implementation
Speaker: J. Balter (USA)

SP-0594

- 09:55 > Training in biological/functional imaging: lacks and opportunities
Speaker: A. Torresin (Italy)

SP-0595

- 10:15 > Discussion

■ Symposium

THE FUTURE OF QA LIES IN AUTOMATION

09:15 - 10:30 | ROOM 500

This symposium will focus on the challenges and approaches in automating quality assurance tasks in the radiotherapy work flow. Specifically we will focus on automation of QA for individual patients in treatment plans and in delivery using log files and in-vivo dosimetry. We will review the different methods for state of the art approaches and ask 'What are the limits of automation and can automated processes ever be used in decision making?'

*Chair: C. Clark (UK)**Co-chair: M. Stasi (Italy)*

- 09:15 > The need of automation in QA, state of art and future perspectives
Speaker: N. Jornet (Spain)

SP-0596

- 09:27 > Automated QA for radiotherapy treatment planning
Speaker: S. Petit (The Netherlands)

SP-0597

09:47 > Automated QA using log files
Speaker: V. Hernandez (Spain)

SP-0598

10:07 > Automation in patient specific QA using in vivo portal dosimetry
Speaker: P. Francois (France)

SP-0599

Symposium

MANAGEMENT AND OPTIMISATION OF THE DAILY WORKFLOW

09:15 - 10:30 | ROOM 3

Implementation of workflow management systems in a department is a real asset for continuous quality improvement and increased efficiency. In order to properly implement workflow management systems, it is important to properly define the current workflow of the department while allowing enough flexibility to integrate modifications emanating from improvement action or process changes.

These systems are also tightly linked to patient safety. Improvement and continuous development of this important aspect depends also on the possibility to measure it. Patient safety culture is a complex phenomenon and quantitative and qualitative measures should be combined to increase understanding in the actual effects.

Lean can serve as an overall philosophy to create quality/safety improvement. In addition to the cultural aspects, also structural elements and clinical process improvements should be addressed.

Lastly, we will see a model to plan the number of therapy units according to demographical and epidemiological aspects.

Chair: D. Pasini (Italy)

Co-chair: P. Cornacchione (Italy)

09:15 > Optimising workflow using a workflow management system
Speaker: A. Vaandering (Belgium)

SP-0600

09:40 > Does lean management improve patient safety culture?
Speaker: P. Simons (The Netherlands)

SP-0601

10:05 > The impact of demographics trend, cancer incidence and cancer prevalence for planning numbers of treatment units in Austria
Speaker: A. Osztavics (Austria)

SP-0602

Symposium

COMBINING RADIOTHERAPY WITH MOLECULAR TARGETED AGENTS: LEARNING FROM SUCCESSES AND FAILURES

11:00 - 12:00 | ROOM 2

In this session, the rationale for combining radiation and molecular targeted agents in cancer therapy will be described with a focus on targeting of EGFR, the immune system and tumor angiogenesis and hypoxia. For the combination of radiation with immunotherapy, examples of proimmunogenic and immunosuppressive effects of radiation and differences in the effect based on dose and fractionation

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will be given. Safety issues will be covered, and major clinical trial successes and challenges will be highlighted. In addition, future opportunities for advances in preclinical and clinical development of combination therapies will be presented.

Chair: H. Lyng (Norway)

Co-chair: L. Livi (Italy)

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|-------|---|---------|
| 11:00 | > Interaction of radiotherapy with molecular targeting agents
<i>Speaker: P. Harari (USA)</i> | SP-0603 |
| 11:20 | > Challenges combining radiotherapy with immunotherapy
<i>Speaker: S. Formenti (USA)</i> | SP-0604 |
| 11:40 | > New strategies to targeting tumour angiogenesis and hypoxia
<i>Speaker: O. Chinot (France)</i> | SP-0605 |

■ Symposium with Proffered Papers

RADIOMICS - THE FUTURE OF RADIOTHERAPY?

11:00 - 12:00 | ISTANBUL

Chair: P. Lambin (The Netherlands)

Co-chair: G. Mantini (Italy)

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|-------|---|---------|
| 11:00 | > Imaging-genomics: identifying molecular phenotypes by integrating radiomics and genomics data
<i>Speaker: TBC</i> | SP-0606 |
| 11:15 | > PET/CT heterogeneity quantification through texture analysis: potential role for prognostic and predictive models
<i>Speaker: M. Hatt (France)</i> | SP-0607 |
| 11:30 | > The potential of radiomics for radiotherapy individualisation
<i>Speaker: E. Troost (Germany), K. Pilz, S. Löck, S. Leger, C. Richter</i> | SP-0608 |
| 11:45 | > Radiomic CT features for evaluation of EGFR and KRAS mutation status in patients with advanced NSCLC
<i>E.E.C. De Jong (The Netherlands), W. Van Elmpt, L.E.L. Hendriks, R.T.H. Leijenaar, A.M.C. Dingemans, P. Lambin</i> | OC-0609 |

■ Symposium

RADIOBIOLOGY OF PROTON / CARBON / HEAVY IONS

11:00 - 12:00 | LONDRA

Chair: M. Pruschy (Switzerland)

Co-chair: M. Amichetti (Italy)

- 11:00 > Gene expression alterations to carbon ion and X-irradiation
Speaker: M. Moreels (Belgium) SP-0610
- 11:20 > Normal tissue response in particle therapy
Speaker: B.S. Sørensen (Denmark) SP-0611
- 11:40 > Preclinical studies using protons for high-precision irradiation of small animals
Speaker: P. Van Luijk (The Netherlands) SP-0612

■ Symposium

NEW INSIGHTS IN TREATING VERTEBRAL METASTASES

11:00 - 12:00 | GIALLA

Choosing the most optimal treatment for patients suffering from spinal metastases can be complex, and, the focus of treatment may change during the course of disease. During this session, the speakers will, from their own clinical perspective, present an update on the place and timing of different treatment modalities ranging from interventional radiological procedures as RFA or vertebroplasty, to minimal invasive surgical techniques as percutaneous pedicle screw-based stabilization or limited open decompressive procedures, to, finally, non-invasive high dose radiotherapy using stereotactic techniques. Important criteria to consider are selection of patients for either modality, based on patient criteria, expected spinal stability, effectiveness of the intervention, its limitations, side effects, and, duration of metastatic control versus expected survival.

Chair: *Y. Van der Linden (The Netherlands)*

Co-chair: *E. Maranzano (Italy)*

- 11:00 > Recent progresses in interventional radiology
Speaker: P. Bize (Switzerland) SP-0613
- 11:20 > What are the limits of minimally invasive surgery?
Speaker: F. Zairi (France) SP-0614
- 11:40 > How to optimise the potential of SBRT
Speaker: P. Ost (Belgium) SP-0615

■ Symposium

IMRT, THE NEW STANDARD IN TREATMENT OF GYNAECOLOGICAL, LUNG AND BREAST CANCERS?

11:00 - 12:00 | ROOM 4

Chair: *Y. Lievens (Belgium)*

Co-chair: *B.A. Jerezczek-Fossa (Italy)*

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|-------|---|---|---------|
| 11:00 | > | Organ motion: is it an obstacle to the use of IMRT as a standard technique for gynecological cancers?
<i>Speaker: I. Barillot (France)</i> | SP-0616 |
| 11:20 | > | IMRT for lung cancer: current status and future developments
<i>Speaker: C. Faivre-Finn (UK)</i> | SP-0617 |
| 11:40 | > | Are there early and late benefits of breast IMRT for improving dose distribution homogeneity?
<i>Speaker: J. Pignol (The Netherlands)</i> | SP-0618 |

■ Symposium with Proffered Papers

PLAN OF THE DAY (POTD): CURRENT STATUS

11:00 - 12:00 | ROOM 1

Chair: *L. Tuomikoski (Finland)*

Co-chair: *C. Garibaldi (Italy)*

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|-------|---|---|---------|
| 11:00 | > | PotD external beam: overview of current practice
<i>Speaker: J. Penninkhof (The Netherlands), S. Heijkoop, S. Quint, A.P. Kanis, A. Akhiat, R. Langerak, J.W. Mens, B.J.M. Heijmen, M.S. Hoogeman</i> | SP-0619 |
| 11:25 | > | In-room MR image-guided plan of the day
<i>Speaker: R. Kashani (USA), J. Olsen, O. Green, P. Parikh, C. Robinson, J. Michalski, S. Mutic</i> | SP-0620 |
| 11:45 | > | A population based library of plans for rectal cancer: design and prospects for margin reduction
<i>L. Hartgring, J. Nijkamp, S. Van Kranen, S. Van Beek, B. Van Triest, P. Remeijer (The Netherlands)</i> | OC-0621 |

■ Debate

WE DON'T NEED BETTER DOSE CALCULATION, IT'S DOING MORE BAD THAN GOOD

11:00 - 12:00 | ROOM 500

Chair: *D. Verellen (Belgium)*

Chair: *B. McClean (Ireland)*

11:00 > For the motion
Speaker: E. Sterpin (Belgium)

SP-0622

11:15 > Against the motion
Speaker: T. Knöös (Sweden)

SP-0623

11:30 > For the motion rebuttal
Speaker: E. Sterpin (Belgium)

11:40 > Against the motion rebuttal
Speaker: T. Knöös (Sweden)

11:50 > Discussion

■ Debate

ARE WE PRECISELY INACCURATE IN OUR ADAPTION?

11:00 - 12:00 | ROOM 3

This debate will critically discuss recent developments in adaptive radiotherapy (ART). ART is being introduced in many departments nowadays and one of the main questions is if there is sufficient evidence to safely do so?

Risk management as well as the role of the inaccuracies of the whole process, such as delineation and dose calculation errors will be discussed in depth. A further point covered in the debate is whether a potential lack of knowledge of tumour spread could cause increased local relapse rates instead of just reducing toxicity, because parts of our target are missed as a result of the reduced treatment volume.

Chair: *P. Scherer (Austria)*

Chair: *H. McNair (UK)*

11:00 > For the motion
Speaker: M. Leech (Ireland)

SP-0624

11:15 > Against the motion
Speaker: M. Kamphuis (The Netherlands)

SP-0625

11:30 > For the motion rebuttal
Speaker: M. Leech (Ireland)

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11:40 > Against the motion rebuttal
Speaker: M. Kamphuis (The Netherlands)

11:50 > Discussion

■ Debate

MOVING AWAY FROM 2 GRAY: ARE WE READY FOR A PARADIGM SHIFT?

12:00 - 13:00 | ROOM 1

Chair: D. Verellen (Belgium)

Co-chair: P. Poortmans (The Netherlands)

12:00 > For the motion: this house believes that larger fraction sizes will be the standard-of-care for the majority of curative treatments by 2025
Speaker: J.R. Yarnold (UK)

SP-0626

12:10 > Against the motion: This house believes that standard fractionation will remain the standard-of-care for the majority of curative treatments by 2025
Speaker: J. Overgaard (Denmark)

SP-0627

12:25 > For the motion (rebuttal): It is the small fraction sizes that need special pleading, not the large ones
Speaker: A. Nahum (UK)

SP-0628

12:40 > Against the motion
Speaker: I.R. Vogelius (Denmark)

SP-0629

12:55 > For the motion rebuttal
Speaker: J.R. Yarnold (UK)



POSTERS AND E-POSTERS

◆ POSTERS

162

◆ ELECTRONIC POSTERS

211

POSTERS

ABS. N°

Poster

CLINICAL TRACK: HEAD AND NECK

- > Outcomes of induction chemotherapy for head and neck cancer patients
S.Y. Wu (Chinese Taipei), L. Kuan-Chou, C. Tsung-Ming, L. Fei-Peng

PO-0630
- > The prognostication of tumour volume and lower neck lymph nodes in laryngeal cancer treated with IMRT
S.H. Huang (Canada), J. Su, J. Waldron, J. Kim, A. Bayley, S. Bratman, J. Cho, A. Hope, M. Giuliani, J. Ringash, A. Hansen, J. De Almeida, L. Tong, W. Xu, B. O'Sullivan

PO-0631
- > A multivariate model predicting grade ≥ 2 neck fibrosis at 6 months after radio(chemo)therapy
D. Nevens (Belgium), A. Laenen, F. Duprez, J. Daisne, W. De Neve, S. Nuyts

PO-0632
- > Dissection of submandibular glands increases the risk of xerostomia after postoperative radiotherapy
H.P. Van der Laan (The Netherlands), H.P. Bijl, A. Van der Schaaf, J.G.M. Vemer-van den Hoek, J.A. Langendijk, R.J.H.M. Steenbakkers

PO-0633
- > Body image in irradiated head and neck cancer patients
H. Chiu (Taiwan), T.M. Hung, J.T.C. Chang

PO-0634
- > Dose to the masseter muscle and risk of trismus after chemoradiation for advanced head & neck cancer
S. Verheijen (The Netherlands), O. Hamming-Vrieze, M. Jonker, E. Lamers, S.A.C. Kraaijenga, L. Van der Molen, J.B. Van de Kamer, M.W.M. Van den Brekel, W.D. Heemsbergen

PO-0635
- > Safety profile support efficacy of gingival clonidine tablet to prevent severe oral mucositis in HNC
Y. Tao (France), J. Giralt, J.R. Bensadoun, R. V. Lalla, E.M. Ozsahin, G. Pajkos, R.D. Kortmann, J. Contreras-Martinez, P. Céruse, X. Zasadny, F. Arias de la Vega, B. Vasseur, L. Houdas, M. Henke

PO-0636
- > RCT pilot study of Therabite vs wooden spatula in amelioration of trismus in H&N cancer patients
R. Lee (UK), S.N. Rogers, A.L. Caress, A. Molassiotis, R. Edwards, D. Ryder, P. Sanghera, C. Lunt, T. Yeo, N. Slevin

PO-0637

■ INTERDISCIPLINARY

■ RADIOBIOLOGY

■ CLINICAL

■ BRACHYTHERAPY

■ PHYSICS

■ RTT

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- > Adaptive dose painting by numbers for head and neck cancer: interim analysis of a randomised trial
F. Duprez (Belgium), J. Daisne, D. Berwouts, W. De Gersem, I. Goethals, A. Olteanu, J. Schatteman, T. Vercauteren, W. De Neve

PO-0638
- > Graves ophthalmopathy: a network meta-analysis of treatments
M.P. Shaikh (USA), F. Alite, M. Wu, J. Welsh, B. Emami, E. Melian, M.M. Harkenrider

PO-0639
- > Prognostic factors in definitive salvage RT for recurrent Head and Neck cancer
O. Suzuki (Japan), R. Oh, K. Ogawa

PO-0640

Poster

CLINICAL TRACK: CNS

- > Radiosurgery for intracranial meningioma. A systematic review and meta-analysis
V. Pinzi (Italy), E. Biagioli, A. Roberto, F. Galli, F. Chiappa, I. Floriani, L. Fariselli

PO-0641
- > Radiosurgery without whole brain radiotherapy in brain metastases from non-small cell lung cancer
P. Anselmo (Italy), L. Chirico, M. Muti, M. Basagni, F. Trippa, R. Rossi, L. Draghini, F. Arcidiacono, M. Italiani, M. Casale, S. Fabiani, C. Giorgi, E. Maranzano

PO-0642
- > Stereotactic hypofractionation in combination with radiosurgery in the treatment of brain metastases
P. Ivanov (Russian Federation), I. Zubatkina, G. Andreev

PO-0643
- > Hippocampal sparing brain radiotherapy using VMAT to the primary brain tumour
K.S. Kim (Republic of Korea), C.W. Wee, J.Y. Seok, J. Hong, J.B. Chung, K.Y. Eom, J.S. Kim, I.A. Kim

PO-0644
- > 18F-FET PET and MRI for treatment planning in glioblastoma
M. Harat (Poland), B. Malkowski, Z. Okońska, R. Makarewicz

PO-0645
- > Temozolomide during radiotherapy of glioblastoma multiforme: daily administration improves survival
S. Nachbichler (Germany), G. Schupp, H. Ballhausen, M. Niyazi, C. Belka

PO-0646

- > Subventricular zones: new key targets for glioblastoma treatment
J. Khalifa (France), F. Tensaouti, A. Lusque, B. Plas, J.A. Lotterie, E. Uro-Coste, V. Lubrano, E. Cohen-Jonathan Moyal

PO-0647
- > Pilot study in the assessment of contouring variability in stereotactic radiosurgery
H. Sandstrom (Sweden), C. Chung, J. Gårding, I. Toma-Dasu

PO-0648
- > Evaluation of distant brain failure among patients undergoing SRS for lung cancer brain metastases
G. Bhattal (USA), A. Keller, J. Dajac, Z. Pavlovic, R. Ismail, S. Kailas, J. Babb, T. Buntinx-Krieg, T. Do, E. Kim, A. Sarparast, N. Ramakrishna

PO-0649
- > Prognostic value of minimal time to peak in dynamic 18F-FET-PET for high-grade glioma re-irradiation
D.F. Fleischmann (Germany), M. Unterrainer, P. Bartenstein, C. Belka, N.L. Albert, M. Niyazi

PO-0650
- > Pattern of failure in glioblastoma patients after FET-PET and MRI-guided chemo-radiotherapy
M. Lundemann Jensen (Denmark), J. Cardoso Costa, I. Law, A. Muhic, S.A. Engelholm, P. Munck af Rosenschöld

PO-0651
- > SFRT of the resection cavity in patients with one to three brain metastases
A. Bilger (Germany), H. Lorenz, D. Milanovic, O. Oehlke, A.L. Grosu

PO-0652
- > Surgical interventions after previous SBRT of the spine – increased risk for complications?
J. Roesch (Switzerland), J. Cho, D.K. Fahim, J.C. Flickinger, P.C. Gerszten, I.S. Grills, M.S. Jawad, R. Kersh, D. Letourneau, F. Mantel, A. Sahgal, J.H. Shin, B. Winey, M. Guckenberger

PO-0653
- > Hypofractionated StereotacticRS for patients with brain metastases Outcome evaluation and toxicity
P. Navarria (Italy), A. Ascolese, G. D'agostino, E. Villa, E. Clerici, A. Tozzi, C. Iftode, F. De Rose, L. Liardo, T. Comito, C. Franzese, D. Franceschini, F. Pessina, M. Riva, L. Bello, G. Reggiori, M. Scorsetti

PO-0654
- > Targeted therapy and stereotactic radiotherapy in brain metastases from renal cell carcinoma
P. Anselmo (Italy), C. Caserta, M. Casale, F. Trippa, F. Arcidiacono, L. Draghini, F. Roila, E. Maranzano

PO-0655

- > Radiosurgery in brain metastases: a mono-institutional experience
E. Pelle (Italy), E. Trino, M. Levis, C. Mantovani, U. Ricardi

PO-0656
- > Does radiomics have prognostic value in glioblastoma?
L. Compter (The Netherlands), R.T.H. Leijenaar, D.B.P. Eekers, J.D. Zindler, A. Hoeben, B. Küsters, J. Beckervordersandforth, L. Ackermans, O.E.M.G. Schijns, M. Anten, A.A. Postma, P. Lambin

PO-0657
- > Linear accelerator radiosurgery for arteriovenous malformations: a single institution experience
S. Yahya (UK), G. Heyes, P. Nightingale, S. Lamin, G. Cruickshank, I. Geh, D. Spooner, P. Sanghera

PO-0658
- > Impact of 68Ga-Dotatoc-PET on tumor delineation and outcome in patients with meningioma
H. Fischer (Germany), K. Kessel, T. Pyka, M. Devečka, M. Schwaiger, S.E. Combs

PO-0659
- > Evaluation of distant brain failure among patients undergoing SRS for melanoma brain metastases
S. Kailas (USA), E. Kim, A. Sarparast, P. Adedoyin, A. Keller, G. Bhattal, R. Ismail, J. Babb, T. Buntinx-Krieg, J. Dajac, T. Do, Z. Pavlovic, N. Ramakrishna

PO-0660
- > Gliosarcoma: prognostic and therapeutics factors
I. Castelli (France), L. Feuvret, Q. Haoming, J. Biau, E. Jouglar, A. Berger, G. Truc, F. Llama Guttierrez, X. Morandi, F. Thillays, D. Loussouarn, I. Lecouillard, G. Crehange, D. Antoni, E. Vauleon, R. De Crevoisier, G. Noël

PO-0661

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CLINICAL TRACK: HAEMATOLOGY

- > The multi-institutional retrospective study of radiation therapy for NK/T-cell lymphoma in Japan
M. Oguchi (Japan), Y. Motoko, S. Ritsuro, S. Keisuke, H. Masatoshi, E. Yasuo, S. Toshinori, I. Koichi, I. Michiko, S. Emiko, K. Yasuko, H. Arisa

PO-0662
- > Treatment result of primary thyroid lymphoma; a single institute experience
N. Yoshikawa (Japan), T. Shimbo, H. Yoshioka, K. Yoshida, Y. Uesugi, Y. Narumi

PO-0663

- > Outcome of radiotherapy for stage I and II follicular lymphoma in patients staged by 18 FDG PET-CT
J.L. Brady (UK), S.F. Barrington, V. Warbey, N.G. Mikhaeel

PO-0664
- > Compliance with ILROG guidelines in the treatment of extranodal lymphomas; an internal plans review
C. Furlan (Italy), P. Bulian, M. Michieli, M. Trovo, A. Ermacora, M. Spina, U. Tirelli, F. Franchin

PO-0665
- > Comparing the efficacy of low-dose radiotherapy in patients with aggressive and indolent lymphomas
C. Furlan (Italy), P. Bulian, M. Michieli, M. Spina, A. Ermacora, M. Trovo, U. Tirelli, G. Franchin

PO-0666
- > Second malignancies after TBI in AHCT for relapsed follicular lymphoma
S. Tisseverasinghe, R. Samant, M. Sabloff, Y. Xu, C. Bredeson, L. Huebsch, P. Genest, P. Cross (Canada)

PO-0667
- > Outcome of low and intermediate dose radiotherapy in head and neck MALT lymphoma
F. Rahman (UK), J. Brady, S. Galli, N.G. Mikhaeel

PO-0668
- > Risk of second malignant neoplasms among long-term survivors of extranodal NK/T-cell lymphoma
B. Chen (China), Y.X. Li, W.H. Wang, J. Jin, S.L. Wang, Y.P. Liu, Y.W. Song, H. Fang, H. Ren, Q.F. Liu, R.Y. Wu, Y. Yang, X.F. Liu, Z.H. Yu

PO-0669
- > Efficacy of low dose radiotherapy in relapsed or refractory high grade non Hodgkin lymphoma
J.L. Brady (UK), H. Attallah, N.G. Mikhaeel

PO-0670
- > Risk of cardiac damage after mediastinal radiotherapy for Hodgkin's disease
M. Buglione (Italy), F. Trevisan, L. Baushi, M. Triggiani, N. Pasinetti, A. Alghisi, D. Greco, A. Papa, L. Spiazzi, P. Borghetti, S. Nodari, S. Magrini

PO-0671

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CLINICAL TRACK: BREAST

- > Ten years experience of breast reconstruction after mastectomy in previously irradiated patients
A. Di Donato (Italy), E. Ippolito, R.M. D'Angelillo, A. Sicilia, E. Molfese, P. Trecca, S. Ramella, L. Trodella, B. Cagli, M. Barone

PO-0672

■ INTERDISCIPLINARY ■ RADIOBIOLOGY ■ CLINICAL ■ BRACHYTHERAPY ■ PHYSICS ■ RTT ■ YOUNG

- > Common European mitochondrial haplogroups in the risk of RT-induced breast fibrosis
L. Deantonio (Italy), S. Terrazzino, S. Cargnin, L. Donis, C. Pisani, L. Masini, G. Gambaro, P. Canonico, A. Genazzani, M. Krengli
PO-0673
- > Factors influencing patient reported cosmetic outcome: results of the Young Boost Trial
P. Brouwers (The Netherlands), E. Van Werkhoven, J. Van Loon, P. Poortmans, H. Bartelink, L. Boersma
PO-0674
- > Radical radiotherapy in oligometastatic breast cancer patients
M. Trovo (Italy), C. Furlan, M. Berretta, L. Militello, S. Spazzapan, J. Polese, A. Del Conte, S. Arcangeli, A. Fiorentino, G. Franchin
PO-0675
- > Impact of IMN irradiation on the right coronary artery and OAR in right-sided post-mastectomy patients
K. Rock (Canada), A. Barry, M. Rahman, M. Pintilie, C.A. Koch
PO-0676
- > Comparing detailed cardiac structure dose-volume metrics in supine versus prone breast irradiation
C. Luo (Australia), J. Otton, V. Batumalai, E.M. Pogson, K. Dundas, L. Holloway, W. Xuan, G.P. Delaney, L. Thomas, D.H. Tran, G. Liney, E.S. Koh
PO-0677

Poster

CLINICAL TRACK: LUNG

- > Do blood-biomarkers enhance clinical models for NSCLC patients treated with radical radiotherapy?
S. Carvalho (The Netherlands), E.G.C. Troost, J. Bons, P. Menheere, P. Lambin, C. Oberije
PO-0678
- > Comparison of toxicity and outcome in stage III NSCLC patients treated with IMRT or VMAT
R. Wijsman (The Netherlands), F. Dankers, E.G.C. Troost, A.L. Hoffmann, J. Bussink
PO-0679
- > Predictive models of the extent and CT appearance of radiation induced lung injury for NSCLC
U. Bernchou (Denmark), R. Christiansen, J. Asmussen, T. Schytte, O. Hansen, C. Brink
PO-0680

- > Randomised phase II study of Erlotinib with radiotherapy in irresectable non small cell lung cancer
E. Martínez (Spain), M. Rico Oses, F. Casas, N. Viñolas, J. Minguez, A. Paredes, A. Pérez Casas, E. Domine PO-0681
- > Prognostic factors and patterns of failure after post-op radiotherapy for epithelial thymic tumors
F. Belkhir (France), A. Levy, A. Suissa, N. Grellier-Adedjoma, P. Xu, E. Fadel, C. Le Péchoux PO-0682
- > Multiple training interventions improve PET/CT based target volume delineation in NSCLC RTP
T. Konert (The Netherlands), W. Vogel, M. MacManus, S. Everitt, D. Thorwarth, J. Sonke, D. Paez, E. Fidarova, G. Hanna PO-0683
- > Does the dose to heart affect survival in NSCLC patient treated with definitive radiotherapy?
T. Schytte (Denmark), T.B. Nielsen, T. Stolberg-Rohr, C. Brink, O. Hansen PO-0684
- > Is PET imaging a reliable target for dose painting by numbers in lung cancer?
D. Di Perri (Belgium), J. Lee, A. Bol, S. Differding, G. Janssens, D. Labar, A. Robert, F. Hanin, X. Geets PO-0685
- > Locoregional failure in locally advanced non-small cell lung cancer after definitive radiotherapy
E. Jouglar (France), V. Isnardi, D. Goulon, C. Ségura-Ferlay, M. Ayadi, C. Dupuy, M.A. Mahé, L. Claude PO-0686
- > Machine learning method for biomarkers identification in lung cancer patients
B.D. Delgado-León (Spain), J. Moreno, J. Cacicedo, M. Perez, A. Moreno, F.J. Núñez, L. Delgado, S. Pérez, J.M. Praena-Fernandez, E. Montero, J.M. Nieto, C. Parra, M.J. Ortiz-Gordillo, J.L. López-Guerra PO-0687
- > Patterns of LR for stage III N2 NSCLC patients after chemotherapy and surgery: implications for PORT
C. Billiet (Belgium), D. De Ruysscher, S. Peeters, H. Decaluwé, J. Vansteenkiste, C. Doooms, C.M. Deroose, M. Hendrikx, J. Mebis PO-0688
- > Outcome predictors for moderate hypofractionated tomotherapy in malignant pleural mesothelioma
A. Fodor (Italy), S. Broggi, I. Dell'Oca, M. Picchio, C. Fiorino, E. Incerti, M. Pasetti, G. Cattaneo, L. Gianolli, R. Calandrino, N. Di Muzio PO-0689

- > Patient weight loss predicts worse overall survival for stage I lung cancer treated with SABR
G. Cook (Canada), Y. Xu, P. Cross, O. Holmes, R. Macrae, J. Pantarotto
 PO-0690
- > SABR for central lung tumors: plan quality and long-term clinical outcomes
H. Tekatli (The Netherlands), S. Senan, M. Dahele, B.J. Slotman, W. Verbakel
 PO-0691
- > A novel endoscopically injected liquid-gel marker for image guided radiotherapy of thoracic tumours
S.R. Mortensen (Denmark), J. Scherman-Rydhög, K.R. Larsen, P.F. Clementsen, G.F. Persson, M. Aznar, M. Josipovic, P.M. Rosenschöld, R.I. Jølck, T.L. Andresen, L. Specht
 PO-0692
- > Primary tumor response of locally advanced NSCLC in PET/CTs during radiochemotherapy
T. Schimek-Jasch (Germany), S. Adebahr, M. Mix, A.L. Grosu, U. Nestle
 PO-0693
- > Lung toxicity modelling in thoracic post-operative RT for NSCLC and pleural mesothelioma
A. Botticella (Belgium), G. Defraene, C. Billiet, C. Draulans, K. Nackaerts, C. Deroose, J. Coolen, P. Naftoux, S. Peeters, D. De Ruyscher
 PO-0694
- > Lobectomy vs stereotactic ablative radiotherapy in NSCLC: a multicentric series in four centers
V. Scotti (Italy), A. Bruni, G. Simontacchi, I.F. Furfaro, M. Loi, D. Scartoni, A. Gonfiotti, D. Viggiano, C. De Luca Cardillo, B. Agresti, L. Poggesi, E. Olmetto, K. Ferrari, M. Perna, P. Bastiani, L. Paoletti, L. Lastrucci, P. Pernici, G. Carta, S. Borghesi, S. Bertocci, P. Giacobazzi, L. Voltolini, L. Livi
 PO-0695

Poster

CLINICAL TRACK: UPPER GI (OESOPHAGUS, STOMACH, PANCREAS, LIVER)

- > Prognostic impact of celiac/supraclavicular node metastasis in locally advanced oesophageal cancer
W.K. Cho (Republic of Korea), D. Oh, Y.C. Ahn, H. Lee, Y.M. Shim, J.I. Zo, J.M. Sun, M.J. Ahn, K. Park
 PO-0696
- > Neoadjuvant vs. adjuvant treatment of gastroesophageal junction cancer: a retrospective analysis
A. Stessin (USA), J. Miccio, O. Oladeru, S. Ryu
 PO-0697

- > Integration of radiotherapy to chemotherapy for abdominal lymph node recurrence in gastric cancer
J. Lee (Republic of Korea), S.Y. Rha, W.J. Hyung, Y.C. Lee, J.S. Lim, H.S. Kim, W.S. Koom

PO-0698
- > Treatment of metachronous esophageal cancer after head and neck cancer
K.H. Fan (Taiwan), Y.K. Chao, H.M. Wang, C.Y. Lin, T.C. Chang, C.T. Liao, C.H. Hsieh

PO-0699
- > Salvage radiotherapy in the patients with supraclavicular lymph node metastases after esophagectomy
Z.G. Zhou (China), C.J. Zhen, P. Zhang, X.Y. Qiao, J.L. Liang, W.W. Bai

PO-0700
- > Dose-response relationship for locoregional control in esophageal cancer treated with curative CRT
H.J. Kim (Republic of Korea), Y.G. Suh, W.S. Koom, Y.B. Kim, C.G. Lee

PO-0701
- > The use of PET texture analysis to predict lymph node metastases in patients with oesophageal cancer
K. Foley, B. Berthon, C. Marshall, E. Spezi (UK)

PO-0702
- > Perioperative chemotherapy versus neoadjuvant chemoradiotherapy for esophageal adenocarcinoma
L. Goense (The Netherlands), P.C. Van der Sluis, P.S.N. Van Rossum, S. Van der Horst, M. Van Vulpen, S. Mook, J.P. Ruurda, R. Van Hillegersberg

PO-0703
- > Patterns of replese in stage III thoracic esophageal squamous cell carcinoma patients after surgery
Y.X. Wang (China), Q. Yang, M. He, J.F. Yao, J. Li, S.C. Zhu, X.Y. Qiao, Z. Qi

PO-0704
- > Clinical outcomes for inoperable HCC treated with SBRT: results on 71 patients and 102 lesions
T. Comito (Italy), C. Franzese, E. Clerici, F. De Rose, A. Tozzi, G. D'Agostino, P. Navarra, C. Ifiode, E. Villa, A.M. Ascolese, D. Franceschini, R.L.E. Liardo, L. Cozzi, A. Fogliata, A. Stravato, F. Zucconi, G. Reggiori, S. Tomatis, M. Scorsetti

PO-0705
- > Supraclavicular lymphnode disease is not an independent prognostic factor in esophageal cancer
P. Jeene (The Netherlands), M.C.C.M. Hulshof, E. Versteijne, M.I. Van Berge Henegouwen, J.J.G.H.M. Bergmann, E.D. Geijssen, H.W.M. Van Laarhoven

PO-0706

- > The impact of dose on survival in adjuvant chemoradiation pancreatic cancer
L. De Filippo (Italy), G.C. Mattiucci, A.G. Morganti, M. Falconi, R.G.P.M. Van Stiphout, S. Alfieri, M. Balducci, F.A. Calvo, J.M. Herman, G. Macchia, B.W. Maidment III, G. Mantini, R.C. Miller, W. Regine, M. Reni, V. Valentini PO-0707
- > Advanced age is no contraindication for chemoradiotherapy with curative intent in oesophageal cancer
E. Voncken (The Netherlands), R. Van der Kaaij, K. Sikorska, E. Van Werkhoven, J. Van Dieren, C. Grootsholten, P. Snaebjornsson, J. Van Sandick, B. Aleman PO-0708
- > Interobserver variation of CT and FDG-PET based GTV for oesophageal cancer: a Dutch nationwide study
M.E. Nowee (The Netherlands), F.E. Voncken, A.N. Kotte, L. Goense, P.S.N. Van Rossum, A.L.H.M.W. Van Lier, B.M. Aleman, M. Van Vulpen, G.J. Meijer, I.M. Lips PO-0709
- > Large interobserver variation of delineated target volumes of pancreatic cancer in the Netherlands
E. Versteijne (The Netherlands), O. Gurney-Champion, A. Van der Horst, E. Lens, M. Kolff, H. Heerkens, G. Paardekooper, M. Berbee, J. Buijsen, P. Vande Putte, K. Neelis, M. Van Herk, A. Bel, G. Van Tienhoven PO-0710
- > Relating CT image heterogeneity to patient outcome in the SCOPE 1 oesophageal cancer trial
R. Carrington (UK), E. Spezi, S. Gwynne, J. Staffurth, T. Crosby PO-0711
- > Stereotactic body radiotherapy in the treatment of inoperable hepatocellular carcinoma
P. Franco (Italy), A. Guarneri, E. Trino, M. Levis, F. Giglioli, A.R. Filippi, R. Ragona, U. Ricardi PO-0712
- > Conformity analysis of target-volume definition for margin-directed boost in pancreatic cancer SBRT
D. Holyoake (UK), M. Robinson, D. Grose, D. McIntosh, D. Sebag-Montefiore, G. Radhakrishna, N. Patel, S. Mukherjee, M. Hawkins PO-0713
- > Proposal for the delineation of the clinical target volume in biliary tract cancer radiotherapy
J. Socha (Poland), M. Michalak, G. Wołakiewicz, L. Kępką PO-0714

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CLINICAL TRACK: LOWER GI (COLON, RECTUM, ANUS)

- > Chemoradiation with concomitant boost in rectal cancer (T4&recurrences): a phase II study
V. Picardi (Italy), G. Macchia, M. Di Bartolomeo, M. Giordano, M. Nuzzo, L. Caravatta, M.A. Gambacorta, L. Di Lullo, A. Guido, L. Giaccherini, L. Fuccio, R. Golfieri, D. Cuicchi, G. Ugolini, S. Cammelli, G. Frezza, A.G. Morganti, V. Valentini, F. Deodato

PO-0715
- > Preoperative chemoradiation with VMAT-SIB in rectal cancer: a phase II study (Grace-Rectum-1)
V. Picardi (Italy), G. Macchia, S. Cilla, M. Di Bartolomeo, M. Giordano, F. Rotondi, M.A. Gambacorta, F. Deodato, L. Ronchi, A. Farioli, A. Guido, G. Siepe, G. Compagnone, A. Ardizzoni, S. Cammelli, G. Frezza, V. Valentini, A.G. Morganti

PO-0716
- > Serum miR-345-5p predicts pathological response to chemoradiotherapy in local advanced rectal cancer
L. Yu (China), N. Li, J. Jin

PO-0717
- > The significance of postop CEA after preoperative CRT followed by TME in advanced rectal cancer
S. Jeong (Republic of Korea), J.H. Lee, S.H. Kim, H.M. Cho, B.Y. Shim, D.Y. Kim, T.H. Kim, S.Y. Kim, J.Y. Baek, J.H. Oh, T.K. Nam, M.S. Yoon, J.U. Jeong, K. Kim, E.K. Chi, H.S. Jang, J.S. Kim, J.H. Kim, B.K. Jeong

PO-0718
- > Target delineation of anal cancer based on MR or PET – an inter-observer, inter-modality study
E. Rusten (Norway), B.L. Rekstad, C. Undseth, G. Al-Haidari, B. Hanekamp, E. Hernes, T.P. Hellebust, E. Malinen, M. Guren

PO-0719
- > High tumour glycine concentration – an adverse prognostic factor in locally advanced rectal cancer
K. Redalen (Norway), B. Sitter, T. Bathen, K. Grøholt, K. Hole, S. Dueland, K. Flatmark, A. Ree, T. Seierstad

PO-0720
- > Impact of sentinel lymph-node biopsy on staging and treatment in patients with anal cancer
N. Slim (Italy), C. Gumina, P. De Nardi, A. Tamburini, C. Canevari, M. Ronzoni, G. Bordogna, V. Ricci, C. Fiorino, R. Rosati, N. Di Muzio, P. Passoni

PO-0721

- > Stereotactic ablative radiotherapy for lung oligometastatic patients with colorectal cancer

L. Agolli (Italy), V. Maurizio, N. Luca, D.S. Vitaliana, O. Mattia F

PO-0722

Poster

CLINICAL TRACK: GYNAECOLOGICAL (ENDOMETRIUM, CERVIX, VAGINA, VULVA)

- > Short time interval between radiation and hyperthermia improves treatment outcome in cervical cancer
C.M. Van Leeuwen (The Netherlands), A.L. Oei, K.W.T.K. Chin, L.J.A. Stalpers, A. Bel, J. Crezee, N.A.P. Franken, H.P. Kok
PO-0723
- > Adjuvant SIB-VMAT in endometrial cancer: a dose escalation study
G. Macchia (Italy), S. Cilla, F. Deodato, M. Nuzzo, A. Ianiro, M. Marucci, G. Perrella, C. Digesù, V. Valentini, M. Ferioli, F. Bertini, A. Galuppi, M. Perrone, P. De Iaco, S. Cammelli, G. Frezza, A.G. Morganti
PO-0724
- > Pelvic organ motion during radiotherapy for cervical cancer and impact on target coverage
G. Eminowicz (UK), J. Motlib, S. Khan, C. Perna, M. McCormack
PO-0725
- > Stereotactic body radiotherapy for mediastinal and sub-diaphragmatic nodal relapse of ovarian cancer
L. Draghini (Italy), F. Trippa, F. Arcidiacono, P. Anselmo, M. Casale, M. Italiani, M. Muti, M.L. Basagni, L. Chirico, R. Rossi, E. Maranzano
PO-0726
- > Prognostic impact of 18F-FDG PET-CT in patients with locally advanced cervical carcinoma
S. Cima (Switzerland), A. Galuppi, P. De Iaco, M. Perrone, S. Fanti, G. Compagnone, M.C. Valli, A. Richetti, G. Macchia, M. Nuzzo, F. Deodato, G. Ferrandina, F. Bertini, A. Farioli, S. Cammelli, G. Frezza, A.G. Morganti
PO-0727
- > Stereotactic body radiation therapy for oligometastatic patients with ovarian cancer
A. Tozzi (Italy), C.S. Iftote, T. Comito, C. Franzese, F. De Rose, E. Villa, P. Navarria, A.M. Ascolese, D. Franceschini, R.L.E. Liardo, E. Clerici, G.R. D'Agostino, V. Palumbo, M. Scorsetti
PO-0728
- > Hematological toxicity of Rth-Chth for cervical cancer: Rth technique and dose given to bone marrow
K. Bialas (Poland), M. Agnieszka Stefanowicz, M. Karolina Osowiecka, P. Katarzyna Pawlów – Pyrka, P. Lucyna Kępka
PO-0729

- > QoL after postoperative IMRT for cervical cancer: results from matched pair analysis with 3DCRT
S. Chopra (India), S. Mohanty, U. Mahantshetty, S. Kannan, R. Engineer, S. Mechanery, R. Phurailatpam, J. Ghosh, S. Gupta, S. Shrivastava

PO-0730
- > Quality of life of women after endometrial cancer: the role of the vaginal dilator
R. Foerster (Germany), L. Schnetzke, T. Bruckner, H. Rief, J. Debus, K. Lindel

PO-0731
- > Predictive factors for inter-fraction uterine motion in definitive radiotherapy for cervical cancer
H. Maemoto (Japan), T.T. Takafumi Toita, S.H. Seiji Hashimoto, T.A. Takuro Ariga, Y.K. Yasumasa Kakinohana, J.H. Joichi Heianna, S.M. Sadayuki Murayama

PO-0732
- > Treatment response evaluation with ADCmean in cervical cancer patient treated with chemoradiotherapy
C. Onal (Turkey), G. Erbay, O.C. Guler

PO-0733
- > Just in the prevention of radio-induced vaginal mucositis
F. Piccolo (Italy), A. Romano, A. Rese, E. D'Ippolito, F. Pastore, P. Romanelli, L. Faraci, E. Toska, V. De Chiara, A. Farella, R. Solla, M. Conson, R. Liuzzi, L. Cella, R. Pacelli

PO-0734
- > Prognostic value of microRNA-205 in endometrial cancer patients treated with adjuvant radiotherapy
M. Wilczynski (Poland), J. Danielska, J. Fijuth, A. Malinowski

PO-0735

■ Poster

CLINICAL TRACK: PROSTATE

- > Tumour staging using MRI in prostate cancer: improvement of treatment decisions for radiotherapy
F. Couñago (Spain), E. Del Cerro, A.A. Díaz-Gavela, F.J. Marcos, M. Recio, D. Sanz-Rosa, I. Thuissard, K. Olaciregui, J. Castro-Novais, J. Carrascoso, C. Hayoun, R. Murillo, J.M. Rodriguez-Luna, C. Bueno, J. Hornedo, R. Perez-Carrion, V. Martinez de Vega, M. Mateo

PO-0736
- > Predictors of PSA relapse in patients with intermediate risk prostate cancer treated with SBRT
T. Kole (USA), S. Guleria, H. Koneru, O. Obayomi-Davies, T. Yung, S. Lei, B. Collins, S. Suy, A. Dritschilo, S. Collins

PO-0737

- > Hydrogel injection prevents long-term rectal toxicity after radiotherapy for prostate cancer
M. Pinkawa (Germany), V. Schmitt, V. Djukic, J. Klotz, L. König, D. Frank, B. Krenkel, M. Eble
 PO-0738
- > IMRT versus 3D conformal radiotherapy when used in combination with I-125 prostate brachytherapy
A. Yorozu (Japan), T. Tanaka, R. Kota, Y. Takagawa, Y. Shiraiishi, K. Toya, S. Saito
 PO-0739
- > Nodal clearance rate and efficacy of individualised SN-based pelvic IMRT for prostate cancer
A. Müller (Germany), F. Eckert, F. Paulsen, D. Zips, A. Stenzl, D. Schilling, M. Alber, R. Bares, P. Martus, D. Weckermann, C. Belka, U. Ganswindt
 PO-0740
- > Even high-dose radiotherapy requires long-term androgen ablation for high-risk prostate cancer
T.K. Nam (Republic of Korea), D.D. Kwon, J.W. Jeong, Y.H. Kim, M.S. Yoon, J.Y. Song, S.J. Ahn, W.K. Chung
 PO-0741
- > Image-guided IMRT reduces late toxicity compared to 3D-CRT for prostate cancer
R. Wortel (The Netherlands), L. Incrocci, F. Pos, U. Van der Heide, J. Lebesque, S. Aluwini, M. Witte, W. Heemsbergen
 PO-0742
- > Stereotactic body radiotherapy in recurrent lymph nodes metastases from prostate cancer
E. Trippa (Italy), E. Maranzano, E. Ponti, A. Carosi, F. Arcidiacono, L. Draghini, L. Di Murro, A. Lancia, P. Anselmo, R. Santoni, G. Ingrosso
 PO-0743
- > Effects of IMRT or radical prostatectomy (RP) on serum testosterone in patients with prostate cancer
A. Giraldo Marin (Spain), X. Maldonado, J. Planas, M. Hermida, M.J. Mañas, S. Mico, J. Morote, J. Giralt
 PO-0744
- > Significant correlation between prostate volume and obstructive voiding symptom in hypofractionation
S. Pérez Echagüen (Spain), C.J. Sanz Freire, G.A. Ossola Lentati
 PO-0745
- > Spanish validation of Charlson Index applied to prostate cancer
F. Casas i Duran (Spain), F. Ferrer, A. Herreros, J. Saez, C. Camacho
 PO-0746

- > Revisiting guidelines for target definition after prostatectomy when taking MRI study into account
G. Sancho Pardo (Spain), D. Hernandez, D. Gimenez, N. Jornet, M. Menso, E. Umbrurescu, F. Benítez, G. Gómez de Segura, J. Craven-Bartle PO-0747
- > Escalated-dose IMRT for prostate cancer: long-term toxicity and biochemical outcomes
H. Bettina (Germany), D. Strauß PO-0748
- > Factors predicting late severe urinary incontinence after postprostatectomy RT: a longitudinal study
B. Noris Chiorida (Italy), C. Sini, C. Fiorino, F. Badenchini, A. Briganti, A. Chiara, C.L. Deantoni, N. Slim, N. Suardi, F. Montorsi, N. Di Muzio, C. Cozzarini PO-0749
- > Conventionally-fractionated VMAT vs. SBRT in prostate cancer: PSA kinetics, toxicity, quality of life
M. Tambas (Turkey), F. Agaoglu, A. Iribas, M. Guveli, Y. Dizdar, M. Okutan, D. Ozkan, N. Tenekeci, E. Darendeliler PO-0750
- > Predicting recurrence after 3DC radiotherapy for prostate cancer: proposal for a new classifier
P. Gabriele (Italy), B. Jereczek-Fossa, M. Krengli, E. Garibaldi, M. Tessa, G. Moro, G. Girelli, C. Bona, V. Balcet, P. Ferrazza, D. Gabriele PO-0751
- > Outcome of prostate cancer patients treated with 3DCRT: impact of rectal/bladder preparation
A. Maggio (Italy), E. Garibaldi, D. Gabriele, S. Bresciani, E. Delmastro, A. Di Dia, A. Miranti, M. Poli, P. Gabriele, M. Stasi PO-0752
- > Prospective evaluation of urinary function in patients with prostate cancer treated with RT
F. Badenchini (Italy), C. Cozzarini, B. Avuzzi, C. Sini, A. Fodor, T. Rancati, R. Valdagni, N. Di Muzio, C. Fiorino PO-0753
- > Whole body Integral dose is associated with radiotherapy related fatigue in prostate cancer
N. Joseph (UK), A. McWilliam, J. Chang-Claude, S. Davidson, K. Johnson, T. Rancati, C. Talbot, A. Webb, C. West, A. Choudhury PO-0754
- > Intestinal toxicity from WPRT delivered with IMRT is negligible. A multicentric observational trial
C. Sini (Italy), E. Garibaldi, A. Maggio, L. Perna, A. Prisco, E. Moretti, M. Gaetano, V. Carillo, B. Avuzzi, T. Giandini, D. Cante, E. Petrucci, B. Saracino, V. Landoni, E. Della Bosca, P. Salmoiraghi, C. Bianconi, F. Badenchini, C. Fiorino, C. Cozzarini PO-0755

■ INTERDISCIPLINARY ■ RADIOBIOLOGY ■ CLINICAL ■ BRACHYTHERAPY ■ PHYSICS ■ RTT ■ YOUNG

- > Choline PET/CT and stereotactic body radiotherapy in oligometastatic prostate cancer patients
F. Pasqualetti (Italy), M. Panichi, A. Sainato, F. Matteucci, L. Derosa, P. Cocuzza, G. Coraggio, P. Ferrazza, S. Montrone, M. Cantarella, D. Delishaj, A. Cristaudo, M. Fabrini, C. Greco, P. Erba
PO-0756

- > SBRT for prostate cancer using tomotherapy: interim analysis of a prospective trial in 82 patients
V. Macias Hernandez (Spain), M. Blanco Villar, M.J. Fernandez Gomez, S. Garcia Repiso, P. Soria Carreras, A. Nieto Palacios, A.I. Rodriguez Gutierrez, O. Alonso Rodriguez, C. Cigarral Garcia, S. Rodriguez Garcia, C. Gil Restrepo, A. Matias Perez, F. Gomez Veiga, M. Martin Izquierdo, L.A. Perez Romasanta
PO-0757

- > Adjuvant or Salvage? 10-y results of the AIRO Group on prostate cancer multicentre prospective trial
F. Maurizi (Italy), P. Antognoni, S. Barra, F. Bertoni, A. Bonetta, G. Bortolus, A. Colombo, G. Frezza, O. Gabriele, C. Iotti, F. Mattana, S. Meregalli, G. Moro, M. Signor, G. Malinverni
PO-0758

■ Poster

CLINICAL TRACK: UROLOGY-NON-PROSTATE

- > Results of radical radiotherapy with a tumour boost for bladder cancer in patients unfit for surgery
L.J. Lutkenhaus (The Netherlands), R.M. Van Os, A. Bel, M.C.C.M. Hulshof
PO-0759

- > 3D radiotherapy with concurrent weekly Gemcitabine and Cisplatin for bladder carcinoma
A. Varveris (Greece), J. Stratakis, M. Mazonakis, A. Spanakis, C. Varveris
PO-0760

■ Poster

CLINICAL TRACK: SKIN CANCER / MALIGNANT MELANOMA

- > Radiation therapy for angiosarcoma of the scalp: total scalp irradiation with X-rays and electrons
M. Hata (Japan), H. Wada, I. Ogino, M. Omura, I. Koike, Y. Tayama, K. Odagiri, T. Kasuya, M. Aihara, T. Inoue
PO-0761

- > Dose-volume predictors of radio-induced effects after SRS for uveal melanoma
C.R. Gigliotti, M. Di Nicola, L.A. Perna, C. Fiorino, G. Modorati, P. Mortini, A. Franzin, A. Bolognesi, A. Del Vecchio (Italy), R. Calandrino PO-0762
- > Ruthenium-106 brachytherapy for choroidal melanoma: high efficacy with improved visual outcome
F.P. Peters (The Netherlands), M. Marinkovic, N. Horeweg, L. Sommers, M. Fiocco, J.C. Bleeker, M. Ketelaars, G.P.M. Luyten, C.L. Creutzberg PO-0763

Poster

CLINICAL TRACK: SARCOMA

- > Perioperative brachiterapy boost in high grade soft tissue sarcomas
A. Cortesi (Italy), A. Galuppi, E. Shukulli, G. Bianchi, D.M. Donati, S. Cima, C. Digesù, M. Nuzzo, G. Macchia, F. Deodato, G. Frezza, S. Cammelli, A.G. Morganti PO-0764
- > Management of primary cardiac and great vessel sarcomas, The RMH experience 2000-2015
R. Rieu, C. Benson, A. Dunlop, K. Khabra, O. Al-Muderis, R. Jones, W. Van der Graaf, C. Fisher, K. Thway, C. Messiou, I. Judson, A. Miah, S. Zaidi (UK) PO-0765
- > Is dose de-escalation possible in sarcoma patients treated with extended limb sparing resection?
A. Levy (France), S. Bonvalot, P. Terrier, A. Le Cesne, C. Le Péchoux PO-0766
- > Does fluid collection have an impact on radiotherapy outcomes after excision of soft tissue sarcoma?
N. Choi (Republic of Korea), J.Y. Kim, T. Yu, H.S. Kim, H.J. Kim, I.H. Kim PO-0767
- > Evaluation of RT practice for limb soft tissue sarcomas and its impact on prognosis and toxicity
C. Llacer-Moscardo (France), C. Le Pechoux, M.P. Sunyach, S. Thezenas, A. Ducassou, M. Delannes, G. Noel, J. Thariat, G. Vogin, J. Fourquet, F. Vilotte, P. Sargos, G. Kantor, S. Chapet, L. Moureau-Zabotto PO-0768

Poster

CLINICAL TRACK: PAEDIATRIC TUMOURS

- > Survival benefit for patients with diffuse intrinsic pontine glioma (DIPG) undergoing re-irradiation
G.O.R.J. Janssens (The Netherlands), S. Bolle, H. Mandeville, M. Ramos-Albiac, K. Van Beek, H. Benghiat, B. Hoeben, A. Morales la Madrid, M. Peters, R. Kortmann, A.O. Von Bueren, D. Van Vuurden, C.M. Kramm
- > Subsequent colorectal adenomas in childhood cancer survivors: a DCOG LATER record linkage study
J. Teepen (The Netherlands), J. Kok, F. Van Leeuwen, W. Tissing, W. Dolsma, H. Van der Pal, E. Van Dulmen-den Broeder, M. Van den Heuvel-Eibrink, J. Loonen, D. Bresters, A. Versluys, S. Neggers, A. De Vries, M. Jaspers, M. Van den Berg, H. Caron, M. Van der Heiden-van der Loo, N. Hollema, DCOG LATER Study Group, F. Oldenburger, O. Visser, L. Overbeek, L. Kremer, C. Ronckers
- > Temporal changes in pediatric radiation oncology: DCOG LATER childhood cancer survivor study
J. Kok (The Netherlands), W. Dolsma, E. Van Dulmen-den Broeder, M. Van den Heuvel-Eibrink, J. Loonen, W. Tissing, D. Bresters, B. Versluys, H. Van der Pal, S. Neggers, N. Hollema, M. Van der Heiden-van der Loo, F. Van Leeuwen, F. Oldenburger, B. Aleman, G. Janssens, J. Maduro, R. Tersteeg, C. Van Rij, L. Daniels, C. Haasbeek, H. Caron, The DCOG LATER Study Group, L. Kremer, C. Ronckers

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PO-0770

PO-0771

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CLINICAL TRACK: PALLIATION

- > Adequacy of dose volume constraints in stereotactic radiotherapy and radiosurgery of abdominal area
S. Cilla (Italy), G. Macchia, A. Ianiro, V. Picardi, C. Digesù, M. Ferro, F. Labropoulos, G. Torre, M. Nuzzo, F. Deodato, A. Guido, L. Giaccherini, L. Manuzzi, A. Arcelli, D. Balestrini, G. Compagnone, S. Cammelli, M. Campitelli, G. Frezza, A.G. Morganti
- > Reirradiation by extracranial stereotactic treatment: preliminary results of a dose escalation study
F. Deodato (Italy), S. Cilla, G. Macchia, M. Nuzzo, C. Annesi, M. Ferro, F. Labropoulos, G. Torre, V. Picardi, A. Ianiro, S. Ciabatti, G.C. Mattiucci, D. Smaniotto, S. Luzi, G. Siepe, E. Shukulli, F. Romani, L. Caravatta, A. Farioli, S. Cammelli, G. Frezza, A.G. Morganti

PO-0772

PO-0773

- > Extra-cranial radiosurgery in oligometastatic disease: a dose escalation study (Destroy-2).
E. Deodato (Italy), G. Macchia, M. Nuzzo, C. Annese, M. Ferro, F. Labropoulos, G. Torre, V. Picardi, S. Mignogna, A. Ianiro, R. Autorino, A. Petrone, A. Arcelli, I. Mascia, E. Farina, F. Bertini, G. Compagnone, S. Pini, S. Cammelli, G. Frezza, V. Valentini, A.G. Morganti, S. Cilla PO-0774
- > Risk stratification of vertebral compression fracture after palliative RT for spinal metastases
T. Yu (Republic of Korea), J.H. Kim, K. Kim, K. Hak Jae, E.K. Chie, K.H. Shin, H.G. Wu, I.H. Kim PO-0775
- > Radiotherapy for painful bone metastases: clinical predictors of efficacy
N. Bychkova (Russian Federation), E. Khmelevsky, A. Kaprin PO-0776
- > Evaluation of spinal stability in relation to pain response after radiotherapy for spinal metastases
A.S. Gerlich, J.M. Van der Velden (The Netherlands), A.L. Versteeg, H.M. Verkooijen, C.G. Fisher, F.C. Oner, M. Van Vulpen, L. Weir, J.J. Verlaan PO-0777
- > Limited short-term effect of radiotherapy on bone density in metastatic femoral bone
F. Eggermont (The Netherlands), L.C. Derikx, N. Verdonschot, G. Hannink, R.S.J.P. Kaatee, E. Tanck, Y.M. Van der Linden PO-0778
- > Multicenter study of palliative pelvic radiation for symptomatic primary and recurrent rectal cancer
M. Cameron (Norway), C. Kersten, I. Vistad, R. Van Helvoirt, K. Weyde, C. Undseth, I. Mjaaland, E. Skovlund, S. Fosså, M. Guren PO-0779

■ Poster

CLINICAL TRACK: ELDERLY

- > An analysis of elderly patients compliance and disease distribution treated with radiation therapy
S.H. Lee (Republic of Korea), L. Seung Heon, S. KiHoon, C. Young Eun, L. Kyu Chan, K. Kwang Pil PO-0780
- > Hypofractionated or conventional radiotherapy for early glottis cancer. Does age influence?
L. Gutierrez Bayard (Spain), M. Salas Buzón, E. Porras Alonso, L. De Ingunza Barón, S. Garduño Sánchez, I. Villanego Beltrán, V. Díaz Díaz, E. González Calvo, L. Díaz Gómez PO-0781

- > Stereotactic body radiation therapy for primary lung cancer in the elderly
L. Larrea (Spain), E. López, P. Antonini, V. González, M. Baños, J. Bea PO-0782

■ Poster

CLINICAL TRACK: HEALTH SERVICES RESEARCH / HEALTH ECONOMICS

- > Implementation of a trial outpatient clinic to improve participation and data collection in trials
J. Paulissen (The Netherlands), C. Offermann, R. Houben, E. Van Erp, M. Brouns, H. Backes, L. Boersma, G. Vreuls, R. Lemmen, A. Dekker, P. Lambin, M. Jacobs, K. Smits PO-0783
- > Targeting general practitioners: prospective outcomes of a nationwide GP education programme
L. Morris (Australia), S. Turner, P. Gorayski PO-0784
- > Improvement strategies and performance enhancement in Healthcare: the reorganisation of Radiotherapy
M. Altini, D. Gallegati, L. Solinas, C. Zani, I. Massa, A. Romeo (Italy), V. Turri PO-0785
- > Could a 3-tier teleradiotherapy network provide a cost-effective radiotherapy care in LMICs?
N.R. Datta (Switzerland), M. Heuser, M. Samiei, S. Bodis PO-0786
- > Abstract withdrawn PO-0787
- > Predicted patient demand for MRI Linac
B. Sanderson (UK), A. McWilliam, C. Faivre-Finn, A. Choudhury, T. Mee PO-0788
- > Treatment time in breast irradiation: a trade-off between positioning and complexity
C. Monten (Belgium), L. Veldeman, Y. Lievens PO-0789

■ Poster

CLINICAL TRACK: OTHER

- > Radiation-induced mesothelioma among solid cancer survivors: an analysis of the seercohort
A. Farioli (Italy), L. Ronchi, M. Ferioli, F. Busi, G. Compagnone, S. Cammelli, M. Ferro, F. Labropoulos, M. Nuzzo, G. Macchia, F. Deodato, G. Frezza, A.G. Morganti, F.S. Violante

PO-0790
- > Motion management and Vero dynamic tracking for SBRT in oligometastatic disease: a prospective trial
R. Van den Begin (Belgium), B. Engels, M. Boussaer, J. Dhont, M. Burghlelea, C. Collen, T. Gevaert, D. Verellen, G. Storme, M. De Ridder

PO-0791

■ Poster

PHYSICS TRACK: BASIC DOSIMETRY AND PHANTOM AND DETECTOR DEVELOPMENT

- > Direct dose measurements in contrast enhanced radiotherapy with iodine and gadolinium
A.A. Cherepanov (Russian Federation), A.A. Lipengolts, E.S. Vorobyeva, V.A. Klimanov, V.N. Kulakov, E.Y. Grigorieva

PO-0792
- > The Advanced Markus ionization chamber is useable for measurements at ultra high dose rates
K. Petersson (Switzerland), M. Jaccard, T. Buchillier, C. Bailat, J. Germond, M. Vozenin, J. Bourhis, F. Bochud

PO-0793
- > First proton irradiation experiments with a deformable radiochromic 3D dosimeter
E.M. Hoye (Denmark), P.S. Skyt, P. Balling, L.P. Muren, J. Swakoń, G. Mierzwińska, M. Rydygier, V. Taasti, J.B.B. Petersen

PO-0794
- > Dose verification of fast and continuous scanning in proton therapy
G. Klimpki (Switzerland), S. Psoroulas, M. Eichin, C. Bula, D.C. Weber, D. Meer, A. Lomax

PO-0795
- > Dose rate dependence of the PTW 60019 microDiamond detector in high dose-per-pulse pulsed beams
J. Pardo-Montero (Spain), L. Brualla-González, F. Gómez, M. Pombar

PO-0796

■ INTERDISCIPLINARY

■ RADIOBIOLOGY

■ CLINICAL

■ BRACHYTHERAPY

■ PHYSICS

■ RTT

■ YOUNG

- > Advanced Radiation Dosimetry System (ARDOS) - A novel breathing phantom for radiation therapy
N. Kostiukhina (Austria), A. Sipaj, S. Rollet, E. Steiner, P. Kuess, H. Furtado, D. Georg

PO-0797
- > Validation of Monte Carlo calculated correction factors for MRI-linac reference dosimetry
D.J. O'Brien (USA), D.A. Roberts, S. Towe, G. Ibbott, G.O. Sawakuchi

PO-0798
- > Beam quality specifiers for an integrated MRI-linac
D.J. O'Brien (USA), D.A. Roberts, S. Towe, G. Ibbott, G.O. Sawakuchi

PO-0799
- > Fricke-type dosimetry for “real-time” 3D dose measurements using MR-guided RT: a feasibility study
H.J. Lee (USA), M. Alqathami, J. Wang, A. Blencowe, G. Ibbott

PO-0800
- > Large area 2D polycrystalline CVD diamond dosimeter under intensity modulated beams
C. Talamonti (Italy), A. Baldi, M. Scaringella, M. Zani, D. Pasquini, E. Pace, L. Livi, S. Pallotta, M. Bruzzi

PO-0801

■ Poster

PHYSICS TRACK: DOSE MEASUREMENT AND DOSE CALCULATION

- > Monte-Carlo based validation of accelerator beam base data measurements
M. Alber (Denmark), M. Söhn, M. Sikora

PO-0802
- > Validation of a pre-treatment delivery quality assurance method for the CyberKnife Synchrony System
E. Mastella (Italy), S. Vigorito, E. Rondi, G. Piperno, A. Ferrari, E. Strata, D. Rozza, B.A. Jerezek-Fossa, F. Cattani

PO-0803
- > Clinical applications of a Monte Carlo tool of a proton pencil beam scanning delivery system
F. Fracchiolla (Italy), M. Schwarz

PO-0804
- > Proton radiography for the clinical commissioning of the new Gantry2 head support at PSI
L. Placidi (Switzerland), S. König, R. Van der Meer, F. Gagnon-Moisan, A.J. Lomax, D.C. Weber, A. Bolsi

PO-0805

- > Optimisation and assessment of the MLC model in the Raystation treatment planning system
A. Savini (Italy), F. Bartolucci, C. Fidanza, F. Rosica, G. Orlandi

PO-0806
- > 3D and 4D dose calculations for tumour-tracking irradiation of lung/liver tumours using gimbaled linac
Y. Iizuka (Japan), N. Ueki, Y. Matsuo, Y. Ishihara, K. Takayama, M. Nakamura, T. Mizowaki, M. Kokubo, M. Hiraoka

PO-0807
- > Validation of a clinical peripheral photon dose model: prostate IMRT irradiation of Alderson phantom
B. Sanchez-Nieto (Chile), L. Irazola, M. Romero-Expósito, J. Terrón, F. Sánchez-Doblado

PO-0808
- > FFF beams from TrueBeam and Versa HD units: evaluation of the parameters for quality assurance
A. Fogliata (Italy), J. Fleckenstein, F. Schneider, M. Pachoud, S. Ghandour, H. Krauss, G. Reggiori, A. Stravato, F. Lohr, M. Scorsetti, L. Cozzi

PO-0809
- > Implementation of Normalised Dose Difference method for evaluation of VMAT Monte Carlo QA
R.O. Cronholm, P. Andersson (Sweden), M. Krantz, R. Chakarova

PO-0810
- > Patients in vivo skin dosimetry using the Exradin W1 plastic scintillator for proton therapy
F. Alsanea, L. Wootton, N. Sahoo, S. Beddar (USA)

PO-0811
- > Dosimetric accuracy of TPS algorithms for actively scanned proton beams and small target volumes
G. Magro (Italy), S. Molinelli, A. Mairani, A. Mirandola, D. Panizza, S. Russo, E. Mastella, F. Valvo, M. Ciocca

PO-0812
- > Assessing the quality of proton PBS delivery: log file analysis of every treatment at PSI Gantry 2
D. Scandurra (Switzerland), F. Albertini, R. Van der Meer, G. Meier, D. Weber, A. Bolsi, A. Lomax

PO-0813
- > Beam quality and perturbation factors of Farmer chambers in magnetic fields
C.K. Spindeldreier (Germany), O. Schrenk, S. Greilich, C. Karger, A. Pfaffenberger

PO-0814
- > Impact of digitizer response and time averaging de-noising in radiochromic film dosimetry
J.A. Vera Sánchez (Spain), C. Ruiz Morales, A. Gonzalez Lopez

PO-0815

- > Sensitivity and reproducibility of the portal imaging panel for routine FFF QC measurements
A. Willett, D. Kelly, M. Gilmore, C. Rowbottom (UK) PO-0816
- > Characteristics and performance of the first commercial MLC for a robotic delivery system
P. Prins (The Netherlands), C. Fürweger, H. Coskan, J.P.A. Marijnissen, B.J.M. Heijmen PO-0817
- > Multicentre small field measurements using a new plastic scintillator detector
M. Pasquino (Italy), S. Russo, P. Mancosu, E. Villaggi, G. Loi, R. Miceli, G.H. Raza, A. Vaiano, M.D. Falco, E. Moretti, F.R. Giglioli, R. Nigro, C. Talamonti, G. Pastore, E. Menghi, F. Palleri, S. Clemente, C. Marino, G. Borzi, V. Ardu, S. Linsalata, A. Mameli, V. D'Alesio, F. Vittorini, M. Stasi PO-0818
- > Analysis of liquid embolic agents on flattening filter free dose deposition with Monte Carlo method
D. Akcay (Turkey) PO-0819
- > Volumetric quality assurance of RapidArc plans for multiple intracranial targets using gel dosimetry
N. Khater (Lebanon), C. El Khoury, M. Sarraf, J. Barouky, D. Nehme Nasr, F. Azoury, T. Felefly, R. Sayah, N. Farah, S. Achkar, E. Nasr PO-0820
- > A comparison between different patient QA devices for IMRT treatments on VERO system
A. Bazani (Italy), F. Pansini, C. Garibaldi, S. Comi, E. Rondi, G. Piperno, A. Ferrari, B.A. Jereczek-Fossa, F. Cattani PO-0821
- > Tumor margin estimation by multiple Bragg peak detection in carbon ion therapy
M.F. Ferraz Dias (Italy), C.A. Collins Fekete, G. Baroni, J. Seco, M. Riboldi PO-0822
- > Five-year results of treatment quality assurance using in vivo dosimetry in ocular proton therapy
A. Carnicer Caceres (France), V. Letellier, G. Angellier, V. Floquet, W. Sauerwein, J. Thariat, J. Hérault PO-0823
- > Treatment couch modeling in Elekta Monaco treatment planning system
C. Huertas (Spain), C. Ferrer, C. Huerga, I. Mas, A. Serrada PO-0824

- > Characterisation of a commercial EPID 3d software for in vivo dosimetry
M. Esposito (Italy), P. Bastiani, A. Bruschi, A. Ghirelli, S. Pini, G. Zatelli, S. Russo

PO-0825
- > Benchmarking computed IDD curves for four proton treatment planning systems against measured data
J. Alshaiqui (UK), D. D'Souza, C.G. Ainsley, I. Rosenberg, G. Royle, R.A. Amos

PO-0826
- > Principal component analysis for deviation detection in 3D in vivo EPID dosimetry
R.A. Rozendaal (The Netherlands), B. Mijnheer, I. Olaciregui-Ruiz, P. Gonzalez, J.J. Sonke, A. Mans

PO-0827
- > Dosimetric assessment of a second generation multi-leaf collimator for robotic radiotherapy
P.H. Mackeprang (Switzerland), D. Schmidhalter, D. Henzen, M. Malthaner, D.M. Aebersold, P. Manser, M.K. Fix

PO-0828
- > Determining the mechanical properties of a radiochromic deformable silicone-based 3D dosimeter
L.P. Kaplan (Denmark), E.M. Høye, P. Balling, L.P. Muren, J.B.B. Petersen, P.R. Poulsen, E.S. Yates, P.S. Skyt

PO-0829
- > Correlation of MLC positions detected using log-files with MLC positions detected using the EPID
W. Lechner (Austria), A. Moser, A. Altendorfer, D. Georg

PO-0830
- > Does a single MLC characterisation guarantee a high accuracy of RapidArc delivered dose?
A. Scaggion (Italy), N. Pivato, A. Roggio, M. Paiusco

PO-0831
- > Preliminary scanning water phantom data for beam characterisation of a hybrid MRI-Linac
S. Woodings (The Netherlands), H. Van Zijp, T. Van Soest, P. Woodhead, M. Duglio, N. Marinos, S. Pencea, D.A. Roberts, J. Kok, J.W.H. Wolthaus, B.W. Raaymakers

PO-0832

■ Poster

PHYSICS TRACK: RADIATION PROTECTION, SECONDARY TUMOUR INDUCTION AND LOW DOSE (INCL. IMAGING)

- > Measured neutron spectra & dose: craniospinal irradiation on single-room passively scattered proton
R. Howell (USA), E.A. Burgett, D. Isaccs, S.G. Price Hedrick, M.P. Reilly, L.J. Rankine, K.K. Grantham, S. Perkins, E.E. Klein PO-0833
- > Calibrating absolute malignant induction probabilities into life-time attributable risk
A. Madkhali (UK), C. Timlin, M. Partridge PO-0834
- > A system for measuring and calculating neutron doses in paediatric proton patients
R. Schulte (USA), S.D. Clarke, E. Pryser, B.M. Wieger, M. Norsworthy, S.A. Pozzi, R. Hälg, A. Lomax, V. Smyth, A. Ottolenghi PO-0835
- > Low dose out-of-field radiation: calculation, measurement and radiobiological impact on cells
M. Kruszyna (Poland), S. Adamczyk, A. Skrobala, M. Skorska, W. Suchorska, K. Zaleska, A. Konefal, A. Kowalik, W. Jackowiak, J. Malicki PO-0836

■ Poster

PHYSICS TRACK: TREATMENT PLAN OPTIMISATION: ALGORITHMS

- > Automatic treatment planning improves clinical quality of head and neck cancer treatments
C.R. Hansen (Denmark), I. Hazell, A. Bertelsen, R. Zukauskaitė, N. Gyldenkerne, J. Johansen, J.G. Eriksen, C. Brink PO-0837
- > Impact of dosimetric outliers on the performance of a knowledge-based planning system
A. Delaney (The Netherlands), J. Tol, M. Dahele, J. Cuijpers, B. Slotman, W. Verbakel PO-0838
- > Clinical simulation of nodal boosting in cervix cancer using reduced margin and coverage probability
A. Ramlov (Denmark), M.S. Assenholt, M.F. Jensen, C. Grønborg, R. Nout, L. Fokdal, M. Alber, K. Tanderup, J.C. Lindegaard PO-0839
- > Voxel-based Δ TCP distribution: a tool to study the impact of dose distributions in tumour outcome
D. Fabri (Chile), B. Sánchez-Nieto, A. Gago, I. Espinoza, A. López-Medina PO-0840

- > Cranial stereotactic trajectory optimisation via patient-specific overlap ATLAS

L. MacDonald (Canada), J.L. Robar, C. Thomas

PO-0841

■ Poster

PHYSICS TRACK: TREATMENT PLANNING: APPLICATIONS

- > Non-coplanar volumetric-modulated arc therapy for craniopharyngiomas reduces doses to hippocampus

M. Uto (Japan), T. Mizowaki, K. Ogura, M. Hiraoka

PO-0842

- > Dosimetric evaluation of 10 years of treatment planning improvements in head and neck cancer

L. Tol (The Netherlands), P. Doornaert, M. Dahele, B. Slotman, W. Verbakel

PO-0843

- > Dosimetrical advantages of 4D mid-vent: should every LA NSCLC patient be treated this way?

S. Philippi (Belgium), N. Barthelemy, M. Devillers, P. Nguyen, P. Coucke, A. Gulyban

PO-0844

- > Evaluating dosimetric indices in lung SBRT for establishing treatment plan quality guidelines

R. Yarpalvi (USA), M. Garg, J. Shen, W. Bodner, D. Mynamapati, H.C. Kuo, P.G. Scripes, A. Basavatia, N. Ohri, W.A. Tome, S. Kalnicki

PO-0845

- > The impact of anatomical changes on the accumulated carbon ion dose in pancreatic cancer patients

A.C. Houweling (The Netherlands), K. Fukata, Y. Kubota, H. Shimada, C.R.N. Rasch, T. Ohno, A. Bel, A. Van der Horst

PO-0846

- > Implementing the new ESTRO guideline for elective breast radiotherapy with the humeral head as PRV

K. Surmann (The Netherlands), J. Van der Leer, T. Branje, M. Van der Sangen, M. Van Lieshout, C.W. Hurkmans

PO-0847

- > Simultaneous integrated protection (SIP): a new concept for high precision radiation therapy

T. Brunner (Germany), S. Adebahr, E. Gkika, A. Zipfel, R. Wiehle, U. Nestle, A. Grosu

PO-0848

- > Heart structures sparing through volumetric modulated arc therapy in mediastinal Hodgkin lymphoma

A.R. Filippi (Italy), M. Levis, A. Girardi, C. Fiandra, F. Cadoni, V. Papurello, C. Piva, I. Donegani, R. Ragona, U. Ricardi

PO-0849

- > Interplay effect quantification of PBS lung tumour proton therapy with various fractionation schemes
Y. Zhang (Switzerland), I. Huth, M. Wegner, D. Weber, A. Lomax PO-0850
- > Development of a postoperative image-based treatment planning system for breast IOERT
H.R. Baghani (Ireland), M.E. Akbar, S.R. Mahdavi, S.M.R. Aghamiri, H.R. Mirzaei, M. Robotjazi, N. Naffisi PO-0851
- > The dose in marrow of iliac plates during radiotherapy of cervical and endometrial cancer
A. Jodda (Poland), T. Piotrowski, B. Urbański, A. Roszak, J. Malicki PO-0852
- > Impact of CT modality used for treatment planning of lung SBRT
A. Vicedo-Gonzalez (Spain), T. Garcia-Hernandez, L. Brualla-González, A. Hernandez-Machancoses, D. Granero-Cabañero, J. Roselló-Ferrando PO-0853
- > Evaluation of a dedicated brain metastases treatment planning optimisation for radiosurgery
T. Gevaert (Belgium), F. Steenbeke, L. Pellegrini, B. Engels, N. Christian, M.T. Hoornaert, C. Mitine, D. Verellen, M. De Ridder PO-0854
- > Flattening Filter Free VMAT for extreme hypofractionation of prostate cancer
M. Ahlström, H. Benedek (Sweden), P. Nilsson, T. Knöös, C. Ceberg PO-0855
- > Clinical and dosimetric issues of VMAT craniospinal irradiation for paediatric medulloblastoma
S. Meroni (Italy), T. Giandini, B. Diletto, E. Pecori, C. Chiruzzi, V. Biassoni, E. Schiavello, F. Sreafico, M. Massimino, E. Pignoli, L. Gandola PO-0856
- > GTV-based prescription and Monte Carlo treatment planning in Cyberknife treatments for lung lesions
A. Vai (Italy), P. Bonfanti, M. Invernizzi, A. Martinotti, I. Redaelli, F. Ria, R. Beltramo, L.C. Bianchi, I. Bossi Zanetti, A. Bergantin PO-0857
- > Development of dysphagia optimised IMRT for head and neck cancer treatment in the DARS trial
L. Tyler (UK), D. Bernstein, K. Rooney, C. Nutting PO-0858
- > Quantifying and categorising plan rejections as a part of the clinical process improvement
C. Speirs (USA), J. LaBrash, S. Mutic, Y. Rao, S. Rehman, M.C. Roach, J.M. Michalski, S.M. Perkins PO-0859

- > Is there a “best technique” available for reducing acute toxicities in craniospinal irradiation?
M. Devecká (Germany), M.N. Duma, S. Kampfer, C. Hugo, K.M. Hofmann,
B.S. Müller, C. Heinrich, J.J. Wilkens, S.E. Combs

PO-0860
- > Whole lung irradiation using VMAT – dosimetric and NTCP benefits vs. second cancer risks
P. Clarke (UK), S. Padmanaban, M. Partridge, T. Foord,
D. Cutter

PO-0861
- > Comparison of Monte-Carlo computed 50 kV X-rays radiation therapy and EBRT for rectal cancer
M. Vidal (France), M. Gautier, O. Croce, J.P. Gerard, K. Benezery

PO-0862
- > Localising the benefit of a hydrogel rectum spacer for prostate IMRT within the ano-rectal wall
B.G.L. Vanneste (The Netherlands), F. Buettner, M. Pinkawa, P. Lambin,
A.L. Hoffmann

PO-0863
- > A planning study investigating different planning techniques for SBRT of NSCLC
C. Moustakis (Germany), I. Ernst, F. Ebrahimi Tazeh Mahalleh,
U. Haverkamp, H.T. Eich, M. Guckenberger

PO-0864
- > Developing sciatic nerve-sparing stereotactic radiotherapy for re-irradiating the pelvic sidewall
M. Llewelyn (UK), E. Wells, A. Taylor

PO-0865
- > Evaluation of three planning RT techniques for boost phase in pediatric medulloblastomas
A.R. Figueira, A.R. Lago, A. Monteiro, D. Monteiro, D. Inácio,
L. Osório, M.J. Fontes, P. Varzim, G. Pinto, P. Meireles (Portugal)

PO-0866
- > Treatment planning study for spatially fractionated mini-beam radiotherapy
A. Alexander (Canada), C. Crewson, W. Davis, M. Mayer,
G. Cranmer-Sargison, V. Kundapur

PO-0867
- > A method to define isodose-based structures in dose painting treatment of GBM in Tomotherapy
M. Orlandi (Italy), A. Botti, E. Cagni, L. Orsingher, R. Sghedoni,
P. Ciammella, C. Iotti, M. Iori

PO-0868

- > Comparing Varian EDGE and Gamma Knife for brain metastases radiosurgery. Preliminary results
S. Tomatis (Italy), P. Navarria, D. Franceschini, L. Cozzi, P. Mancosu, F. Lobejalo, G. Reggiori, A.M. Ascolese, A. Stravato, F. Zucconi, G. Maggi, M. Scorsetti

PO-0869

■ Poster

PHYSICS TRACK: (RADIO)BIOLOGICAL MODELLING

- > Fitting data of relapse-free survival after post-prostatectomy RT with a comprehensive TCP model
C. Fiorino (Italy), S. Broggi, N. Fossati, C. Cozzarini, G. Goldner, T. Wiegler, W. Hinkelbein, J.R. Karnes, S.A. Boorjian, K. Haustermans, S. Joniau, S. Shariat, F. Montorsi, H. Van Poppel, N.G. Di Muzio, R. Calandrino, A. Briganti
- > Radiation-induced lung damage: beyond dose-volume histogram analysis
S. Monti, G. Palma, V. D'Avino, M. Conson, R. Liuzzi, M.C. Pressello, V. Donato, J.O. Deasy, R. Pacelli (Italy), L. Cella
- > The variability of the RBE in proton therapy: can we base it on empirical clinical data?
A. Lühr (Germany), C. Von Neubeck, M. Baumann, M. Krause
- > Modelling severe late rectal bleeding in a large pooled population of prostate cancer patients
A. Cicchetti (Italy), T. Rancati, M. Ebert, C. Fiorino, A. Kennedy, D.J. Joseph, J.W. Denham, V. Vavassori, G. Fellin, R. Valdagni
- > Dose prescription in carbon ion radiotherapy: how to compare different RBE-weighted dose systems
S. Molinelli (Italy), G. Magro, A. Mairani, A. Mirandola, N. Matsufuji, N. Kanematsu, A. Hasegawa, S. Yamada, T. Kamada, H. Tsujii, F. Valvo, M. Ciocca, P. Fossati, R. Orecchia
- > Multivariable models for urinary symptoms at 6-24 months after radical RT of prostate cancer
E. Palorini (Italy), T. Rancati, A. Cicchetti, I. Improta, C. Cozzarini, V. Casanova Borca, C. Degli Esposti, P. Franco, E. Garibaldi, G. Girelli, A. Maggio, R. Micera, M. Palombarini, A. Pierelli, E. Pignoli, N. Simoni, V. Vavassori, S. Villa, R. Valdagni, C. Fiorino

PO-0870

PO-0871

PO-0872

PO-0873

PO-0874

PO-0875

- > Voxel-by-voxel NTCP model for lung density changes after IMRT
M. Avanzo (Italy), S. Barbiero, M. Trovo, J. Stancanello, C. Furlan, C. Cappelletto, E. Capra

PO-0876
- > Baseline CT image and isodose shape features improve prognostic models for dyspnea after RT in NSCLC
G. Defraene (Belgium), W. Van Elmpt, D. De Ruysscher

PO-0877

■ Poster

PHYSICS TRACK: INTRA-FRACTION MOTION MANAGEMENT

- > The effect of rectal retractor on intra-fraction motion of prostate
A. Vanhanen (Finland), M. Kapanen

PO-0878
- > Real-time prostate tracking in prostate cancer radiotherapy using autoscans transperineal ultrasound
X. Qi (China), X.S. Gao, H. Yu, S.B. Qin, H.Z. Li

PO-0879
- > Clinical implementation of 5DCT workflow
D. Low (USA), D. Thomas, T. Dou, P. Lee, J. Lewis, D. O'Connell

PO-0880
- > Patient selection for DIBH technique for left sided breast cancers: impact of chest wall shape
S. Chilukuri (India), D. Adulkar, S. Subramaniam, N. Mohammed, A. Gandhi, M. Kathirvel, T. Swamy, K. Kiran Kumar, N. Yadala

PO-0881
- > Abdominal organ motion during breath-hold measured in volunteers on MRI: inhale and exhale compared
E. Lens (The Netherlands), O.J. Gurney-Champion, A. Van der Horst, D.R. Tekelenburg, Z. Van Kesteren, M.J. Parkes, G. Van Tienhoven, A.J. Nederveen, A. Bel

PO-0882
- > Quantification of Duodenum motion: analysis from respiratory phase guided radiotherapy planning scan
T. Basu (India), T. Kataria, D. Gupta, S.S. Bisht, A. Abhishek, S. Goyal, S. Krishnan, K. KP, K. Narang, S. Sambasivam, S. Banerjee

PO-0883
- > Respiratory motion models from Cone-Beam CT for lung tumour tracking
A. Fassi (Italy), E. Tagliabue, M. Tirindelli, D. Sarrut, M. Riboldi, G. Baroni

PO-0884

- > Brain motion induced artefacts in microbeam radiation therapy: a Monte Carlo study
M. Donzelli (France), E. Braeuer-Krisch, U. Oelfke PO-0885
- > Does lung capacity influence the geometrical reproducibility in DIBH radiotherapy of NSCLC patients?
P. Sibolt (Denmark), W. Ottosson, C.F. Behrens, D. Sjöström PO-0886
- > Latency characterisation of gated radiotherapy treatment beams using a PIN Diode circuit
M. Lempart (Sweden), M. Kügele, F. Nordström, L. Ambolt, B. Blad PO-0887
- > The influence of breathing motion on the precision of delivered dose to breast cancer patients
S. Agergaard (Denmark), A. Bertelsen, E.L. Lorenzen, K.L. Gottlieb, C. Brink PO-0888
- > Intra-fraction re-setup with Triggered Imaging allows for margin reduction in prostate treatments
L. Van der Weide (The Netherlands), M.A. Admiraal, T.S. Rosario PO-0889
- > Homogeneous versus inhomogeneous dose prescription in liver SBRT: effect on delivered CTV-dose
A.T. Hansen (Denmark), P.R. Poulsen, E.S. Worm, M. Hoyer PO-0890
- > Clinical implementation and experience with real-time anatomy tracking and gating during MR-IGRT
O. Green (USA), L. Rankine, L. Santanam, R. Kashani, C. Robinson, P. Parikh, J. Bradley, J. Olsen, S. Mutic PO-0891
- > Assessment of respiratory and cardiac motion to supplement MRI based tracking of hilar lymph nodes
L.P.W. Canjels, M.E.P. Philippens, T. Bruijnen, B. Stemkens, D.C.P. Cobben, S. Sharouni, J.J.W. Lagendijk, A.L.H.M.W. Van Lier, R.H.N. Tijssen (The Netherlands) PO-0892
- > Direct comparison of electromagnetic guided couch and MLC tracking on a TrueBeam accelerator
R. Hansen (Denmark), T. Ravkilde, E.S. Worm, J. Toftegaard, C. Grau, K. Macek, P.R. Poulsen PO-0893

■ Poster

**PHYSICS TRACK: INTER-FRACTION MOTION MANAGEMENT
(EXCL. ADAPTIVE RADIOTHERAPY)**

- > Evaluation of daily setup errors in VMAT for craniospinal irradiation of paediatric patients
C. Constantinescu (Saudi Arabia), Y. Bahadur, R. Al-Wassia, M. Hussain, V. Josephjohn

PO-0894
- > Intraprostatic calcifications as IGRT fiducial markers: analysis of 646 CBCT images in 35 patients
P. Antognoni (Italy), D.P. Doino, L. Pozzi, S. Gottardo, P. Stucchi, C. Bianchi, M. Monciardini, L. Cerizza, M. Molteni, R. Novario

PO-0895
- > The effect of bladder volume on bowel dose in the treatment of anal cancer using IMRT
K. McDonald (UK), L. Wells, H. Phillips, C. McLean, L. Carruthers, W. Nailon

PO-0896
- > Comparison of hippocampus sparing extent according to the tilt of a patient head during WBRT
S. Moon (Republic of Korea), M. Yoon, M. Chung, W. Chung, D. Kim

PO-0897
- > Inter-fraction position of the tongue in postoperative radiotherapy of tongue cancer
E. Dale (Norway), C. Salamonsen, K. Angelvik, S. Gjølme, B. Bø

PO-0898
- > Robustness of fractionated photon RT for pancreatic cancer: dosimetric effects of anatomical changes
A. Van der Horst (The Netherlands), A.C. Houweling, J. Visser, G. Van Tienhoven, A. Bel

PO-0899
- > Dosimetric analysis of organ deformation during prostate IMAT with cone beam CT imaging
D. Foley (Ireland), B. McClean, P. McBride

PO-0900
- > Investigation of a fast CBCT protocol for supine accelerated whole breast irradiation
E. Bogaert (Belgium), C. Monten, C. De Wagter, W. De Neve

PO-0901
- > Improving frameless intracranial stereotactic setup with 6DOF couch using two pre-treatment CBCTs
I. Gagne (Canada), A. Mestrovic, S. Zavgorodni

PO-0902

- > IGRT for a highly conformal VMAT-technique for simultaneous treatment of the breast and lymph nodes
B. Houben-Haring (The Netherlands), M. Admiraal PO-0903
- > Bladder changes assessment using daily cone-beam computed tomography
O. Casares-Magaz (Denmark), V. Moiseenko, A. Hopper, N. Pettersson, M. Thor, L. Cerviño, R. Knopp, M. Cornell, J.O. Deasy, L.P. Muren, J. Einck PO-0904

■ Poster

PHYSICS TRACK: ADAPTIVE RADIOTHERAPY FOR INTER-FRACTION MOTION MANAGEMENT

- > Preparation for the first in man on the MR-Linac: virtual couch shift and on line plan adaptation
I.H. Kiekebosch (The Netherlands), E.N. De Groot, C.N. Nomden, G.H. Bol, B. Van Asselen, G.G. Sikkes, L.T.C. Meijers, A.N.T.J. Kotte, B.W. Raaymakers PO-0905
- > NTCP differences between planned and delivered dose in treatment for head and neck cancer
J. Heukelom (The Netherlands), C. Fuller, M. Kantor, K. Kauwelo, C. Rasch, J.J. Sonke PO-0906
- > Effect of weight loss in head and neck patients in the presence of a magnetic field
A. McWilliam (UK), M. Culley, M. Van Herk PO-0907
- > Inter-fraction OAR dose variation in pancreatic SBRT using contrast-enhanced in-room diagnostic CT
C. Papalazarou (The Netherlands), M.S. Hoogeman, V. Gupta, B.J.M. Heijmen, J.J.M.E. Nuytens PO-0908
- > Merging proton radiographies with treatment planning CT for adaptive radiation therapy
C. Gianoli (Germany), G. Dedes, S. Meyer, L. Magallanes, G. Landry, R. Nijhuis, U. Ganswindt, C. Thieke, C. Belka, K. Parodi PO-0909
- > Potential increase in dose delivered on a fraction by fraction basis by adapting to daily OAR DVCS
D. Foley (Ireland), B. McClean, P. McBride PO-0910

- > Optimal adaptive radiotherapy strategy in head and neck to spare the parotid glands
J. Castelli (France), P. Zhang, A. Simon, B. Rigaud, J.D. Ospina Arango, M. Nassef, C. Lafond, O. Henry, P. Haigrón, B. Li, H. Shu, R. De crevoisier PO-0911

■ Poster

PHYSICS TRACK: CT IMAGING FOR TREATMENT PREPARATION

- > MRI-only based RT: adopting HU conversion technique for pseudo-CT construction in various body parts
J. Korhonen (Finland), L. Koivula, T. Seppälä, M. Kapanen, M. Tenhunen PO-0912
- > Clinically applicable T2-weighted 4D Magnetic Resonance Imaging with good abdominal contrast
D. Tekelenburg (The Netherlands), O. Gurney-Champion, E. Lens, A. Van der Horst, A. Nederveen, A.K. Biegun, A. Bel, Z. Van Kesteren PO-0913
- > Adjustment of CT calibration in presence of titanium implants by pencil beam proton radiography
R. Righetto (Italy), A. Meijers, F. Vander Stappen, P. Farace PO-0914
- > Evaluation of a metal artifact reduction algorithm for radiotherapy CT scans
L. Rechner (Denmark), D. Kovacs, A. Bangsgaard, A. Berthelsen, M. Aznar PO-0915
- > MR-based treatment planning for intracranial glioma patients
M.A. Palacios (The Netherlands), M. Bennis PO-0916
- > The impact of irregular respiratory patterns on tumour volumes in 4DCT
E. Huizing, E.B. Van Dieren (The Netherlands), R. Bruggink, D. Woutersen, C.H. Slump PO-0917
- > Validation of freeware-based mid-ventilation CT calculation for upper abdominal cancer patients
S. Vieira (Portugal), J. Stroom, K. Anderle, B. Salas, N. Pimentel, C. Greco PO-0918

 Poster

PHYSICS TRACK: (QUANTITATIVE) FUNCTIONAL AND BIOLOGICAL IMAGING

- > Optimal respiratory gated FDG-PET for characterizing intra-tumour heterogeneity in lung cancer
J. Bussink (The Netherlands), W. Grootjans, F. Tixier, C. Van der Vos, D. Vriens, C. Cheze Le Rest, W. Oyen, L.F. De Geus-Oei, D. Visvikis, E. Visser
- > Early prediction of individual response in neo-adjuvant adaptive radiochemotherapy for rectal cancer
R. Raso (Italy), P. Passoni, A. Palmisano, C. Fiorino, G.M. Cattaneo, F. De Cobelli, A. Esposito, P. Mangili, N. Slim, N.G. Di Muzio, R. Calandrino
- > Free-breathing dynamic contrast enhanced MRI of lung cancer
S. Kumar (Australia), G. Liney, R. Rai, D. Moses, C. Choong, L. Holloway, S. Vinod
- > Are planning CT radiomics and cone-beam CT radiomics interchangeable?
J.E. Van Timmeren (The Netherlands), R.T.H. Leijenaar, W. Van Elmpt, P. Lambin
- > Comparing FMISO and FDG positive tumour sub-volumes for PET-based dose escalation in SCCHN
D. Mönnich (Germany), S. Leibfarth, S. Welz, C. Pfannenbergl, D. Zips, D. Thorwarth
- > Histogram analysis of ADCs from DWMRI predicts tumour response and survival for rectal cancer
K. Bakke (Norway), T. Seierstad, K.H. Hole, S. Dueland, K. Flatmark, A. Hansen Ree, K. Røe Redalen
- > Simulation of FMISO diffusion-retention in a three-dimensional tumor model
L.J. Wack (Germany), A. Menegakis, R. Winter, S. Böke, D. Mönnich, D. Zips, D. Thorwarth
- > Voxel-based PSMA-PET/histopathology analysis in patients with primary prostate cancer
C. Zamboglou (Germany), F. Schiller, T. Fechter, V. Drendel, C.A. Jilg, P.T. Meyer, M. Mix, A.L. Grosu

PO-0919

PO-0920

PO-0921

PO-0922

PO-0923

PO-0924

PO-0925

PO-0926

- > Bone texture analysis as predictive of bone radiation damage in patients undergoing pelvic RT
V. Nardone (Italy), M. Biondi, P. Tini, L. Sebaste, E. Vanzi, G. Battaglia, P. Pastina, L.N. Mazzoni, F. Banci Buonamici, L. Pirtoli

PO-0927
- > Impact of fuzzy-thresholding of 18F-FDG PET images for cervical cancer recurrence prediction
G. Roman-Jiminez (France), A. Devillers, J. Leseur, J.D. Ospina, H. Der Sarkissian, O. Acosta, R. De Crevoisier

PO-0928
- > Dual Energy CT imaging of tumour vasculature in NSCLC: an intra-patient comparison with DCE-CT
A.J.G. Even (The Netherlands), M. Das, B. Reymen, P. Lambin, W. Van Elmpt

PO-0929
- > PET based response assessment of lung toxicity -assessment of two approaches for dose response
A. Abravan (Norway), I. Skjei Knudtsen, H. Eide, A. Helland, P. Van Luijk, E. Malinen

PO-0930
- > Onset and recovery of neuronal injury following proton radiotherapy
C.L. Teng (USA), M. Mix, B.K.K. Kevin, C. Ainsley, W. Sumei, K. Mano, H. Poptani, R. Wolf, L. Sloan, T. Brown, N. Thorne, S. Avery, Z. Tochner, C. Hill-Keyser, S. Mohan, T. Solberg, C. Armstrong, M. Alonson-Basanta

PO-0931

■ Poster

PHYSICS TRACK: IMAGES AND ANALYSES

- > Preliminary clinical study to evaluate an interactive system to segment OARs in thoracic oncology
J. Dolz (France), H.A. Kirisli, T. Fechter, S. Karnitzki, U. Nestle, M. Vermandel, L. Massoptier

PO-0932
- > Towards standardisation of PET auto-segmentation with the ATLAAS machine learning algorithm
B. Berthon (UK), C. Marshall, E. Spezi

PO-0933
- > Cardio-respiratory motion compensation for 5D thoracic CBCT in IGRT
S. Sauppe (Germany), A. Hahn, M. Brehm, P. Paysan, D. Seghers, M. Kachelrieß

PO-0934

- > Correcting diffusion weighted MR images for signal pile-up and distortions near gas pockets
L.D. Van Buuren, D. Polders, M. Milder, F.J. Pos, S.W. Heijmink, B. Van Triest, U.A. Van der Heide (The Netherlands)
PO-0935
- > Evolved Grow-cut: A PET based segmentation algorithm for heterogeneous tumors
H.M.T. Thevarthundiyil (India), D. Devakumar, Danie Kingslin Heck, Sasidharan Balu Krishna, I. Rabi Raja Singh, Regi Oommen, E. James Jebaseelan Samuel
PO-0936
- > Sound speed reconstruction in full wave ultrasound computer tomography for breast cancer detection
M. Perez-Liva (Spain), J.L. Herraiz, E. Miller, B.T. Cox, B.E. Treeby, J.M. Udias
PO-0937
- > Estimation of system-related geometric distortion in 7T MRI using a 3D anthropomorphic head phantom
J. Peerlings (The Netherlands)
PO-0938

■ Poster

PHYSICS TRACK: IMPLEMENTATION OF NEW TECHNOLOGY, TECHNIQUES, CLINICAL PROTOCOLS OR TRIALS (INCLUDING QA & AUDIT)

- > The dosimetric consequences of delineation variation for cervical external beam radiotherapy
G. Eminowicz (UK), V. Rompokos, C. Stacey, M. McCormack
PO-0939
- > The problems found within the on-site dosimetry audits of radiotherapy centres in the Czech Republic
I. Koniarova (Czech Republic), I. Horakova, V. Dufek
PO-0940
- > 3D printed bolus for chestwall radiation therapy
J. Robar (Canada), J. Allan, R.L. Macdonald, R. Rutledge, T. Joseph, J. Clancey, K. Moran
PO-0941
- > VMAT planning and treatment preparation process adapted for failure mode and effect analysis
N. Khater (Lebanon), F. Azoury, D. Nehme Nasr, N. Farah, T. Felefly, J. Barouky, C. El Khoury, R. Sayah, E. Nasr
PO-0942

- > Dutch national head and neck plan comparison significantly improved treatment planning quality
W. Verbakel (The Netherlands), C. Raaijmakers, L. Bos, M. Essers, C. Terhaard, J. Kaanders, P. Doornaert

PO-0943
- > Stability in leaf position of 3 generations of optical digitally controlled multi leaf collimators
A. Bertelsen (Denmark), C.R. Hansen, N.K. Olsen, C. Brink

PO-0944
- > Modeling and simulation of simultaneous using of two superficial hyperthermia antennas
A. Di Dia (Italy), S. Depalma, S. Bresciani, A. Maggio, A. Miranti, M. Poli, P. Gabriele, E. Garibaldi, M. Stasi

PO-0945
- > A new liquid fiducial marker formulation for image-guided pencil beam scanning proton radiotherapy
J. Scherman Rydhög, R. Perrin, R. Irming Jølck, T. Lomax, F. Gagnon-Moisan, K. Richter Larsen, S. Riisgaard Mortensen, G. Fredberg Persson, D. Weber, T. Andresen, P. Munck af Rosenschöld (Denmark)

PO-0946
- > VMAT-based Grid for spatially fractionated radiation therapy
S. Gholami (Iran), M. Severgnini, H.A. Nedaie, F. Longo, A. S.Meigooni

PO-0947
- > A comprehensive evaluation of intracranial SRS treatment accuracy
T.A. Van de Water (The Netherlands), P. Remeijer, F. Wittkämper, C. Schneider, M. Frantzen-Steneker, E. Damen, C. Panneman, J. Geuze, J. Kaas, R. Van Schie, A.M. Van Mourik

PO-0948
- > Automated approval of a pre trial benchmark RTTQA case
The ARISTOTLE experience.
L.N. Sweeney (UK), E. Spezi, N. Cole, D. Sebag-Montifiore, R.A. Adams

PO-0949
- > QA and dummy-run results of the TRENDY randomized trial on SBRT vs. chemoembolization for HCC
S.J.M. Habraken (The Netherlands), B.J.M. Heijmen, J. Buijsen, W.F.A.R. Verbakel, C.J.A. Haasbeek, M.C. Ollers, G.H. Westerveld, N. Van Wieringen, O. Reerink, E. Seravalli, P.M. Braam, M. Wendling, T. Lacornerie, X. Mirabel, R. Weytjens, L. Depuydt, S. Lang, O. Riesterer, K. Haustermans, T. Depuydt, A. Méndez Romero

PO-0950

- > Radiation beam alignment and baseline dosimetry measurements for the Australian MRI-linac program

J. Begg, L.C. Holloway (Australia), G. Liney, B. Dong, S. Alnaghy, T. Causer, T. AlHarthi, A. George, G. Goozee, P. Vial, S. Arumugam, L. Glaubes, B. Whelan, B. Oborn, P. Metcalfe, D. Thwaites, P. Keall

PO-0951

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PHYSICS TRACK: PROFESSIONAL AND EDUCATIONAL ISSUES

- > Blended teaching reduces interobserver contouring variability: first results of the FALCON project

B. De Bari (Switzerland), C. Salembier, M. Palmu, S. Rivera, J. Eriksen, S. Kaylor, A. Boyler, C. Verfaillie, V. Valentini

PO-0952

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BRACHYTHERAPY TRACK: BREAST

- > Intraoperative multicatheter implant for APBI or boost in conservative surgery of breast cancer

M. Cambeiro (Spain), F. Regueira, N. Rodriguez-Spiteri, B. Orlartecochea, J. Idoate, L. Pina, R. Martinez-Monge

PO-0953

- > Early results of a multi-center trial of IORT using electronic brachytherapy for breast cancer

P. Costa (Portugal), A.M.N. Syed, H. Chang, B. Schwartzberg, A. Bremner, S. Boylan, C. Lopez-Penalver, C. Vito, M. Davis, W. Dooley, A.B. Chakravarthy, C. Coomer, G. Proulx, S. Golder, O. Ivanov, K. Fernandex, M. Farha, V. Gonzalez, A. Bhatnagar, G. Neuner, K. Kopkash, S. Rahman, C. Corn

PO-0954

- > PBI with interstitial HDR brachytherapy: acute and late toxicities & cosmetic results

V. Cerboneschi (Italy), M. Mignogna, S. Linsalata, M. Mignogna

PO-0955

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BRACHYTHERAPY TRACK: GYNAECOLOGY

- > Audit of 100 consecutive cervical cancer patients treated with HDR CT guided brachytherapy

M. Zahra (UK), L. White, L. Bleakley, W. Keough

PO-0956

- > Focal boost to GTV in interstitial and intracavitary cervical brachytherapy - a feasibility study
N. Groom (UK), N. Thiruthaneeswaran, G. Lowe, P. Hoskin

PO-0957
- > Locally advanced cervical cancer treated with IGABT: impact of the D90 HR-CTV on patterns of relapse
C. Chargari (France), R. Mazon, P. Maroun, I. Dumas, F. Martinetti, A. Tafo-Guemie, E. Deutsch, P. Morice, C. Haie-Meder

PO-0958
- > Dosimetric outcome and perioperative toxicity using Utrecht applicator in cervical brachytherapy
F.J. Celada Alvarez (Spain), J. Burgos, S. Roldán, R. Chicas, D. Farga, M. Pérez, I. Paredero, J. Pérez-Calatayud, A. Tormo

PO-0959
- > Making MR-guided cervix cancer brachytherapy efficient: Are plan adaptation & daily planning needed?
J. Skliarenko (Canada), M. Carlone, K. Han, A. Beiki-Ardakani, J. Borg, J. Croke, R. Ujaimi, W. Levin, A. Rink, J. Xie, A. Fyles, M. Milosevic

PO-0960
- > Retrospective dosimetric comparison of TG43 and a commercially MBDCA for gynecological brachytherapy
S. Pinto (Portugal), A. Pereira, T. Viterbo

PO-0961
- > Adjuvant brachytherapy as a part of a multimodal treatment for high-grade uterine sarcoma
P. Annède (France), P. Maroun, C. Petit, R. Mazon, I. Dumas, C. Genestie, P. Pautier, C. Chargari, C. Haie-Meder

PO-0962
- > Effectiveness of week 5 MRI virtual preplanning for image-guided brachytherapy for cervical cancers
A. Chang (Hong Kong SAR China), F. Cheung, T. Wong, E. Wong, F. Cho, C. Yip, I. Soong, A. Law, M. Lee, R. Yeung

PO-0963

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BRACHYTHERAPY TRACK: HEAD AND NECK

- > High-dose-rate interstitial brachytherapy as monotherapy for locally limited mobile tongue cancer
K. Yoshida (Japan), H. Yamazaki, T. Takenaka, T. Kotsuma, K. Masui, H. Akiyama, Y. Uesugi, T. Shimbo, N. Yoshikawa, H. Yoshioka, E. Tanaka, Y. Narumi

PO-0964
- > 125I seeds implantation under ultrasound guidance for local recurrent tumor of head and neck
P. Jiang (China), J. Wang, W. Ran, Y. Jiang, S. Tian, H. Sun

PO-0965

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BRACHYTHERAPY TRACK: PHYSICS

- > Dose planning of intraluminal brachytherapy for esophageal cancer using MR imaging
R. Reci (Sweden), D. Förnvik, L. Lundgren

PO-0966
- > Current practice in quality assurance of the Papillon50 contact X-ray brachytherapy system in the UK
L. Humbert-Vidan (UK), T. Sander, C. Clark

PO-0967
- > Development of a fluorescent screen based QA system for dose verification of afterloading HDR unit
T.L. Chiu (Hong Kong SAR China), B. Yang, H. Geng, W.W. Lam, C.W. Kong, K.Y. Cheung, S.K. Yu

PO-0968
- > Development of dose measurements close to brachytherapy sources in the German standard DIN 6803
E. Hensley (Germany), N. Chofor, A. Schönfeld, D. Harder

PO-0969
- > On the water equivalence of thirteen commercially available phantom materials in 192Ir brachytherapy
A. Schoenfeld (Germany), D. Harder, B. Poppe, N. Chofor

PO-0970
- > Production of Gd-153 as a source isotope for use in rotating shield high dose rate brachytherapy
G. Famulari (Canada), A. Armstrong, T. Urlich, S. Enger

PO-0971
- > Clinical application and validation of a collapsed cone based algorithm for brachytherapy
A. Guemnie Tafo (France), I. Dumas, S. Koren, C. Tata-Zafarifety, C. Petit, C. Haie-Meder, C. Chargari, R. Mazon, F. Monnot, D. Lefkopoulos

PO-0972
- > A novel approach to locating source dwell positions in HDR brachytherapy gynaecological applicators
R. Franich (Australia), M. Hanlon, R.L. Smith, C. Demsey, J.L. Millar

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BRACHYTHERAPY TRACK: PROSTATE

- > Urethral and bladder dose of total and focal salvage brachytherapy: toxicity and dose constraints
M. Peters (The Netherlands), J.R.N. Van der Voort van Zyp, C.J. Hoekstra, H. Westendorp, S. Van de Pol, M.A. Moerland, M. Maenhout, R. Kattenvilder, M. Van Vulpen

PO-0974

- > External beam radiotherapy with HDR brachytherapy boost in prostate cancer: 5- and 8-year results
R. Soumarova (Czech Republic), T. Blažek, L. Homola

PO-0975
- > HDR prostate brachytherapy: 3-D planned simultaneous integrated boost to the peripheral zone
R. Hepp (Germany), L. Herberholz, A. Petry, T. Eggert, L. Piotrowski, C. Morgenstern, G. Schabl, R. Galalae

PO-0976
- > Ten year patient reported quality of life following I-125 prostate brachytherapy monotherapy
A. Henry (UK), B. Sethugavalan, T. Witteveen, B. Al-Qaisieh, P. Bownes, J. Smith, B. Carey, K. Franks, D. Mitchell, D. Bottomley

PO-0977
- > Image-guided impact on the brachytherapy prostate treatment quality
V. Cerboneschi (Italy), V. Ravaglia, M. Paoluzzi, M. Mignogna, M. Mignogna

PO-0978
- > LTB control and toxicity for favorable and intmed Risk pts using real time IO-PSI prostate BT alone
A. Raben (USA), A. Sarkar, A. Hanlon, H.C. Chen, F. Mourtada, A. Glick, M. Lobis, S. Terranova, T. Desperito, D. Cozzolino

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RADIOBIOLOGY TRACK: MOLECULAR TARGETED AGENTS AND RADIOTHERAPY

- > Inhibition of STAT3 enhances the radiosensitising effect of Temozolomide in Glioblastoma model
L.A. Kim (Republic of Korea), T. Han, B. Cho, E. Choi, S. Song, S. Paek

PO-0980
- > Activation of immune cells and enhanced efficacy of radiotherapy by anti-TIP1 antibodies in cancer
D. Hallahan (USA), V. Kapoor, D. Thotala, H. Yan

PO-0981
- > Therapeutic potential of the YB-1/Notch-3 interaction in prostate cancer
N. McDermott, A. Meunier, C. Haynes, A. Flores, A. O'Callaghan, L. Marignol (Ireland)

PO-0982
- > Nanoparticle mediated tumor vascular disruption: a novel strategy in radiation therapy
S. Kunjachan (USA), A. Detappe, R. Kumar, S. Sridhar, G.M. Makrigiorgos, R. Berbeco

PO-0983

- > Combined inhibition of Chk1 and Wee1 kinases for cancer treatment
S. Hauge (Norway), G. Hasvold, M. Joel, C. Naucke, G.E. Rødland, R.G. Syljuåsen

PO-0984
- > Anti-GRP 78 antibodies bind specifically to cancers enhance efficacy of radiotherapy in cancer
D. Dadey (USA), V. Kapoor, D. Thotala, D. Hallahan

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RADIOBIOLOGY TRACK: TUMOUR BIOLOGY AND MICROENVIRONMENT

- > MiR-143 inhibits tumour progression by targeting STAT3 in esophageal squamous cell carcinoma
B. Li (China), S.C.H.&.I. Jia liu, S.C.H.&.I. Yu Mao

PO-0986
- > MiR-432 inhibits tumor progression by targeting IGSF3 in esophageal squamous cell carcinoma
S.C.H.A.I. Jia Liu, S.C.H.A.I. Yu Mao, S.C.H.A.I. Baosheng Li (China)

PO-0987
- > Combined treatment strategies for microtubule interfering agent-resistant tumors
A. Broggin-Tenzer (Switzerland), A. Sharma, S. Bender, K. Nytko-Karouzakis, M. Pruschy

PO-0988
- > Hypoxic and perfusion effects of Trastuzumab in a HER2+ oesophageal adenocarcinoma xenograft model
C. Yip, A. Weeks, G. Cook, D. Landau, V. Goh (UK)

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RADIOBIOLOGY TRACK: NORMAL TISSUE EFFECTS: PATHOGENESIS AND TREATMENT

- > Impact of Ramipril on rat spinal cord after high- and low-LET irradiation
M. Saager (Germany), E.W. Hahn, P. Peschke, S. Brons, P.E. Huber, J. Debus, C.P. Karger

PO-0990
- > p53 and in vitro radiation response of fibroblasts from RT-sensitive and -resistant patients
C. Herskind (Germany), O. Nuta, N. Somaiah, S. Boyle, M.L.K. Chua, L. Gothard, K. Rothkamm, J. Yarnold

PO-0991

- > The role of HIF-1 in the neo-vascularization of the rectal mucosa after radiation therapy
L. Eusebi, I. Kurelac, A. Guido, A. Farioli, L. Giaccherini, L. Frazzoni, G. Gasparre, F. Bazzoli, A. Morganti, L. Fuccio (Italy)

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RADIOBIOLOGY TRACK: BIOMARKERS AND BIOLOGICAL IMAGING

- > Genetic profiles of glioblastoma in proximity to the subventricular zone receiving chemoradiation
S. Adeberg (Germany), C. Koelsche, D. Kehle, S.B. Harrabi, A. Unterberg, A. Von Deimling, J. Debus, S. Rieken
- > Assessment of [11C]-metformin PET for identification of patients suitable for metformin treatment
A. Iversen (Denmark), M. Vendelbo, L. Gormsen, N. Jessen, M. Horsman, M. Busk

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RADIOBIOLOGY TRACK: CELLULAR RADIATION RESPONSE

- > Osteopontin expression in glioblastoma – a promoter of the cancer stem cell-like phenotype?
S. Rogers (Switzerland), R. Grobholz, J. Berberat, A.R. Fathi, S. Bodis
- > Distinct radiation responses after mtDNA depletion are potentially related to oxidative stress
M.W. Van Gisbergen (The Netherlands), A.M. Voets, R. Biemans, G.R.M.M. Haenen, M.J. Drittij-Reijnders, R.F. Hoffmann, I.H. Heijink, H.J.M. Smeets, K.M.A. Rouschop, L. Dubois, P. Lambin
- > Interferon response genes in breast cancer resistance to endocrine treatment and radiotherapy
A.E.M. Post (The Netherlands), A.P. Nagelkerke, J.W.M. Martens, J. Bussink, C.G.J. Sweep, P.N. Span
- > The Robo1-receptor is involved in the migration of irradiated glioblastoma cells
H. Bühler, P. Nguemgo-Kouam (Germany), A. Kochanek, H. Hermani, K. Fakhrian, I.A. Adamietz

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RADIOBIOLOGY TRACK: RADIOBIOLOGY OF PROTONS AND HEAVY IONS

- > Reduced side effects by proton minibeam radiotherapy in a mouse ear model
T.E. Schmid (Germany), S. Girst, C. Greubel, J. Reindl, C. Siebenwirth, K. Ilicic, D.W.M. Walsh, G. Dollinger, J. Wilkens, G. Multhoff, S.E. Combs

PO-0999
- > Effect of X-rays and carbon ions on cell survival and expression of Hh pathway genes in cancer cells
K. Konings (Belgium), M. Moreels, A. Suetens, A. Gonnissen, S. Isebaert, K. Haustermans, S. Baatout

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RTT TRACK: STRATEGIES FOR TREATMENT PLANNING

- > Dosimetric impact of flattening filter and flattening filter-free beams on IMRT planning of NSCLC
S.W.Y. Lee (Hong Kong SAR China), K.M.K. Or, Y.P.J. Kwong, Y.H.S. Choy, C.Y.K. Kwong, H.K. Keung, V.W.C. Wu

PO-1001
- > A comparison of outcomes using VMAT and 3DCRT in treatment of esophageal cancer
E. Jimenez-Jimenez (Spain), J. Font, P. Mateos, F. Romero, J. Pardo, N. Aymar, I. Ortiz, M. Vidal, S. Sabater

PO-1002
- > Does level of DIBH amplitude correlate to reduction in cardiac dose in left breast cancer patients?
D. Ledsom (UK), A. Reilly, H. Probst

PO-1003
- > Optimising breast dosimetry: improving homogeneity through the application of angled IMRT fields
M. Squires (Australia), S. Cheers

PO-1004
- > Dosimetric effect of US versus CT delineation on postplanning I-125 treatment
J. Van der Klein (The Netherlands), M. Mast, P. Koper, P. Rietveld, J. Van Wingerden, H. De Jager

PO-1005
- > A breath-hold friendly, hybrid 3DCRT/IMRT technique for locoregional breast irradiation
K. Hunneko (The Netherlands), D. Martens, D. Steeneveld, A. Dijkhuizen, L. McDermott, F. Gescher, G. Speijer

PO-1006

- > Optimizing the overlap sector for patients undergoing crano-spinal irradiation by VMAT
M. Willemsen - Bosman (The Netherlands), G.O.R. Janssens, E. Seravalli

PO-1007
- > In silico implementation of MRI-60Co RT. A dosimetrical comparison in cervical cancer (SIMBAD-02)
N. Dinapoli (Italy), L. Boldrini, E. Placidi, L. Azario, G.C. Mattiucci, D. Piccari, S. Teodoli, M.A. Gambacorta, S. Chiesa, A. Piermattei, V. Valentini

PO-1008
- > VMAT planning approach to avoid superficial underdosage for accelerated partial breast irradiation
F. Zucconi (Italy), P. Mancosu, G. Reggiori, F. Lobefalo, A. Stravato, A. Gaudino, V. Palumbo, L. Paganini, F. De Rose, S. Tomatis, M. Scorsetti

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RTT TRACK: HEAD AND NECK REDUCTION OF MARGINS AND SIDE EFFECT

- > Partial delegation in 2-D match set-up evaluation for H&N IGRT treatment: preliminary results
A.R. Alitto, A. Pesce (Italy), S. Menna, M. Massaccesi, S. Manfrida, A. Pacchiarotti, A. Castelluccia, F. Miccichè, N. Dinapoli, G.C. Mattiucci, R. Autorino, F. Catucci, L. Azario, S. Luzi, V. Valentini, M. Balducci

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RTT TRACK: ELDERLY AND RADIATION THERAPY

- > Radiotherapy of brain metastases. Relationship with patients age an Karnofsky Index
J.L. Monroy Anton (Spain), J. Albestain Maria, M. Cuenca Torres, M. Lopez Muñoz, M. Soler Tortosa

PO-1011

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RTT TRACK: ADAPTIVE TREATMENTS IN THE PELVIC REGION

- > Can we adequately irradiate bladder cancer without daily on line adaptive treatment?
J. Noordermeer (The Netherlands), M. Mast, J. Egmond van, P. Koper, E. Kouwenhoven, H. Jager de

PO-1012

- > Adaptive radiotherapy in prostate cancer patients: concepts for Individualized Radiotherapy (iRT)
E. Fuchs (Germany), G. Habl, M. Devečka, S. Höfel, S. Kampfer, S. Combs, K. Kessel
 PO-1013
- > Long time follow-up experience after IMRT for anal cancer: clinical outcomes and late toxicities
M. De Meric de Bellefon (France), P. Fenoglietto, D. Azria, C. Llacer-Moscardo, O. Riou, N. Pirault, E. Combettes, N. Aillères, F. Castan, C. Lemanski
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RTT TRACK: OTHER TOPICS FOR RTTS

- > Virtual training in patient information sessions prior to external beam radiotherapy
A. Stewart-Lord (UK), M. Brown
 PO-1015
- > Radiotherapy students' perceptions of skills training simulation using a bariatric suit
R.N.M. Khine (UK), D. Flinton, P. Cherry, R. Thorne
 PO-1016
- > Survey of image-guided radiation therapy use in Australia
V. Batumalai (Australia), L. Holloway, S. Kumar, K. Dundas, M. Jameson, S. Vinod, G. Delaney
 PO-1017
- > Increase efficiency and quality? Yes please! Use project management, participation and ownership
P.E. Tødenes (Norway)
 PO-1018
- > Reflective practice: What is its impact on therapy radiographers practice?
J. Rodgers (UK)
 PO-1019
- > Occurrence of visual phosphenes during radiation therapy of the head
A. Timmers (The Netherlands), W.J.M. De Kruijf, T. Rozema
 PO-1020
- > Implementation and clinical use of a digital log regarding the Traffic Light Protocol in daily IGRT
R. Verhage (The Netherlands), S. Van Beek, A. Smit, M. Broekhof, P. Remeijer
 PO-1021

- > Robotic radiosurgery for vestibular schwannomas - the early tumor response and treatment tolerance
L. Wzietek (Poland), A. Namysl-Kaletka, A. Napieralska, D. Gabrys, S. Blamek

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RTT TRACK: POSITION VERIFICATION

- > Quality assurance for IMRiS phase II study of IMRT in sarcomas: a survey of limb immobilisation
R. Simões (UK), E. Miles, F. Le Grange, R. Bhat, B. Seddon
- > Residual interfraction error after orthogonal kV in stereotactic RT. Analyses from 139 CBCT scans
S. Manfrida, A. Castelluccia (Italy), M. Massaccesi, V. Frascino, M. Ferro, C. La Faenza, A. Petrone, N. Dinapoli, C. Mazzarella, M. Vernaleone, G. Macchia, G.C. Mattiucci, L. Azario, S. Luzi, V. Valentini, M. Balducci
- > Reproducibility of prone immobilisation in breast treatment – a retrospective study
N. Rodrigues (Portugal), A. Francisco, S. Vieira, J. Stroom, M. Coelho, D. Ribeiro, C. Greco
- > Setup accuracy of DIBH for breast treatment with a simultaneous integrated boost.
B. Kraan (The Netherlands), M. Admiraal

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Electronic Poster

CLINICAL TRACK: HEAD AND NECK

- > Re treatment in previously irradiated neck. The different problems of relapsed and second cancers
C. Krzisch (France), E. Ecker, S. Gabriel, A.R. Henry, A. Coutte

EP-1027
- > The role of adjuvant external beam radiation therapy for advanced papillary thyroid cancer
C.Y. Kim (Republic of Korea), N.K. Lee, K.Y. Jung, S.K. Baek

EP-1028
- > 20 v. 25-35 fractions in Oropharyngeal Carcinoma chemoIMRT: Could fraction number be de-escalated?
B. Cheng (UK), H. Benghiat, J. Glaholm, H. Mehanna, P. Sanghera, A. Hartley

EP-1029
- > Sentinel lymph node biopsy in clinically N0 laryngeal cancer: validation and application
V. Rudzianskas (Lithuania), E. Korobeinikova, E. Padervinskis, M. Kaseta, S. Vaitkus, N. Jurkiene

EP-1030
- > Does oral mucosa OAR dose predict duration of G3 mucositis following IMRT for oropharynx cancer?
S. Yahya (UK), H. Benghiat, P. Nightingale, M. Tiffany, P. Sanghera, A. Hartley

EP-1031
- > Unilateral neck radiotherapy in HPV-related tonsillar carcinomas
K. Thippu Jayaprakash (UK), K. Geropantas, K. Sisson, T. Roques

EP-1032
- > Pattern of radiation induced thyroid changes in NPC patients in first 3 years post-chemoradiotherapy
W.C.V. Wu (China), Z. Lin

EP-1033
- > Cachexia induces head and neck changes in locally advanced oropharyngeal carcinoma
R. Mazzola (Italy), F. Ricchetti, A. Fiorentino, S. Fersino, N. Gaj Levra, G. Sicignano, R. Ruggieri, F. Alongi

EP-1034

- > Predictors of mucositis in volumetric modulated radiotherapy for oropharyngeal-oral cavity cancer
F. Ricchetti (Italy), R. Mazzola, S. Fersino, A. Fiorentino, N. Giaj Levra, S. Naccarato, R. Ruggieri, F. Alongi

EP-1035
- > Glottic carcinoma stage T1 radiotherapy
G.J. Dickie (Australia), J. Askew, L. Tripcony, T. Ha

EP-1036
- > Dysphagia and irradiation of constrictor pharyngeal muscles: a clinical-dosimetric correlation
F. Deodato (Italy), S. Cilla, F. Grifa, G. Macchia, G. Sallustio, M. Nuzzo, M. Ferro, F. Labropoulos, S. Mignogna, B. Corvari, F. Marazzi, A. Veraldi, M. Pieri, S. Ciabatti, U. Caliceti, S. Cammelli, G. Frezza, V. Valentini, A.G. Morganti

EP-1037
- > IMRT/VMAT-SIB technique chemoradiation in locally advanced head and neck cancer: toxicity results
F. Deodato (Italy), S. Cilla, G. Macchia, F. Grifa, G. Torre, M. Nuzzo, G.C. Mattiucci, G. Sallustio, L. Di Lullo, F. Micciché, L. Tagliaferri, F. Monari, M. Ntreta, C. Parmeggiani, A. Cortesi, A. Farioli, S. Cammelli, G. Frezza, V. Valentini, A.G. Morganti

EP-1038
- > Head and neck IMRT: correlation of dysphagia/xerostomia to dose/volume parameters of involved OARs
L. Deantonio (Italy), M. Paolini, L. Masini, F. Pia, M. Brambilla, M. Krengli

EP-1039
- > Development of a CT-based prognostic model for regional control in head and neck cancer after RT
D. Nevens (Belgium), O. Vantomme, A. Laenen, R. Hermans, S. Nuyts

EP-1040
- > Evaluation of dysphagia in Head and Neck Cancer patients undergoing Intensity Modulated Radiotherapy
I. Bashir (India), K. Bansal, K. Chufal

EP-1041
- > Risk-factors in pT1-2N0M0 squamous cancers of the oral cavity and the role of adjuvant radiotherapy
I. Mallick (India), S. Bhaumik, K. Sarkar, P. Arun, K. Manikantan, P. Roy, I. Arun, D. Dabkara, S. Chatterjee

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- > Clinical and volumetric prognostic factors in external beam radiotherapy for head and neck cancer
K. Takeda (Japan), H. Matsushita, T. Ogawa, S. Dobashi, Y. Ishizawa, K. Chida, N. Kadoya, K. Ito, M. Chiba, M. Kubozono, R. Umezawa, Y. Shirata, Y. Ishikawa, T. Yamamoto, M. Kozumi, T. Tanabe, N. Takahashi, Y. Katagiri, S. Tazaka, K. Takeda, K. Sato, Y. Katori, K. Jingu EP-1043
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T. Yu (Republic of Korea), H.G. Wu, K. Jin Ho, K. Taek-Gyun EP-1045
- > High dose-low energy intraoperative radiotherapy in the treatment of malignant H&N tumors
B. Emami (USA), R. Borrowdale, M. Choi, E. Thorpe, A. Sethi, B. Chinsky, W. Small EP-1046
- > Volume, FDG-PET and ADC responses could predict a similar prognostic benefit as HPV status
Z. Gouw (The Netherlands), M. La Fontaine, O. Hamming-Vrieze, A. Al-Mamgani, P. Van Houdt, J.J. Sonke EP-1047
- > Phase I trial of a novel metalloporphyrin radiosensitiser (MTL005) in head and neck cancer
S. Shipani (UK), B. Foran, T. Guerrero Urbano, H. Jürgens, C. Beattie, J. Caldwell EP-1048
- > Prognostic role of 18F-FDG PET/CT in Head and Neck cancers treated with radical radio-chemotherapy
L. Sandler (Italy), P. Castellucci, S. Fanti, U. Caliceti, R. Frakulli, A. Milani, S. Cammelli, F. Deodato, M. Nuzzo, G. Macchia, G. Frezza, A.G. Morganti EP-1049
- > Volume definition in radiotherapy planning for thyroid cancer: a retrospective observational study
E. Farina (Italy), S. Cammelli, A. Arcelli, G. Zanirato, R. Frakulli, L. Tagliaferri, A.G. Morganti, S. Fanti, F. Monari EP-1050
- > Long-term quality of life and second tumours in T1N0 glottic cancer treated with radical radiotherapy
R. Benlloch Rodríguez (Spain), J. Romero Fernandez, D. Rincón Cruz, G. Martín Hernández, J.R. García-Berrocal, B. Vaquero Barrón, I. Zapata Paz, O. Alvarez montero, S. Gonzalo Ruiz, A. De la Torre Tomas EP-1051

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P.J. Lin (Taiwan), W.Y. Wang, Y.C. Liu, J.C. Lin

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E. Villa (Italy), C. Franzese, A. Fogliata, D. Franceschini, G.R. D'Agostino, E. Clerici, P. Navarria, T. Comito, F. De Rose, C. Iftode, A.M. Ascolese, A. Tozzi, R.L.E. Liardo, P. Mancosu, M. Scorsetti

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- > Temporal patterns of patient-reported trismus and associated mouth-opening distances in RT of HNC
M. Thor, C.E. Olsson (Sweden), J.H. Oh, J. Hedström, N. Pauli, J.O. Deasy, C. Finizia

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- > Determination of EGFR in lesions of the oral cavity and evaluating the role of Gefitinib
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S. Baker (Canada), R. Banerjee, B. Debenham

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- > Impact assessment of Sankol drug on the excretion of radioiodine-131 from patients DTC
S. Saadatmand (Iran)

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- > Organ preservation in locally advanced larynx and hypopharynx cancer: non surgical strategy
P. Cucarella Beltran (Spain), M.A. De la Rúa Calderon, J.R. Alonso Pantiga

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- > Structured assessment of radiation-induced fibrosis following treatment for head and neck cancer
G. Adigbli (UK)

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- > Can reduced CTV margin for IMRT in Head and Neck cancers improve therapeutic outcomes?
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- > Progressive resistive exercise training for shoulder function: a randomised controlled trial
V. Murthy (India), M. Chatterjee, S. Kannan, T. Gupta, A. Budrukkar, S. Ghosh Laskar, J. Agarwal

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- > Primary (chemo)radiation therapy in organ-sparing treatment of tongue squamous cell carcinoma
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- > Impact of pretreatment primary tumor volume on survival of patient with T4a larynx cancer
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- > Maintenance metronomic chemotherapy for recurrent/metastatic nasopharyngeal carcinoma
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- > Early stage hypopharyngeal cancer: treatment outcome and treatment strategy
N. Kim (Republic of Korea), K.H. Kim, J. Lee, C.G. Lee, K.C. Keum

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- > The usefulness of 18F-FDG PET and PET-based considerations in locally advanced nasopharyngeal cancer
H.I. Yoon (Republic of Korea), K.H. Kim, J. Lee, Y.H. Roh, M. Yun, B.C. Cho, C.G. Lee, K.C. Keum

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- > Circulating cell free DNA: dynamics in patients with head and neck cancer during radiochemotherapy
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- > Squamous cell carcinoma of maxillary sinus : 25-years experience in a single institution
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- > Phase II study of prophylactic radiotherapy in cN0 HNSCC patients based on sentinel node(s) SPECT/CT
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- > Could site, age and stage be clinical factors for development of adaptive RT in head-neck cancer?
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- > Nasopharyngeal Carcinoma: prognostic factors analysis in patients treated with IMRT and chemotherapy
N.A. Iacovelli (Italy), A. Cavallo, E. De Ponti, P. Bossi, S. Alfieri, G. Rossi, S. Naimo, C. Bergamini, S. Tana, L. Licitra, E. Pignoli, C. Fallai, E. Orlandi

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- > Clinical outcomes in locally advanced oropharyngeal cancer 18FDG PET-guided dose escalation IMRT-SIB
A. Chiara (Italy), C. Fiorino, M. Picchio, A. Fodor, S. Broggi, M. Pasetti, E. Incerti, P. Mapelli, F. Zerbetto, C. De Antoni, M. Azizi, R. Calandrino, I. Dell'Oca, N. Di Muzio

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- > Definitive or adjuvant IMRT for locally advanced sinonasal tumors: outcome and prognostic factors
E. Orlandi (Italy), A. Cavallo, E. De Ponti, N.A. Iacovelli, P. Bossi, P. Nicolai, P. Castelnovo, M. Guzzo, G. Calareso, S. Naimo, C. Bergamini, L. Locati, L. Licitra, E. Pignoli, C. Fallai

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- > Advanced head & neck ca - chemoradiotherapy with conventional fraction and accelerated fraction
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- > Interim 18F-FDG-PET/CT during chemoradiotherapy for early outcome prediction of head and neck cancer
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- > Elderly patients concomitant radiotherapy + cetuximab in locally advanced head and neck cancer
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- > EGFR expression in head and neck cancer: does it have a role as prognostic factor in radiotherapy?
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- > Finding the right threshold for determining hypoxic subvolumes in F-MISO-PET/CTs for HNSCC
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- > Screening for symptoms in HNC: Italian translation and validation of a patient-reported outcome
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- > Is time from symptom to treatment a prognostic factor in stage III-IV head and neck cancer patients?
C. Furlan (Italy), J. Polesel, C. Gobitti, E. Minatel, E. Vaccher, L. Barzan, G. Grando, G. Franchin
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- > Accelerated hypofractionated IMRT-IGRT and concurrent chemotherapy in oropharyngeal cancer
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- > Overall treatment time is not a prognostic factor in chemoradiation for nasopharyngeal carcinoma.
E. Netto (Portugal), M. Ferreira, I. Sargento, J. Cabeçadas, A. Mota, F. Pires, T. Alexandre, P. Montalvão, M. Magalhães, M. Roldão

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- > Stratifying patients of head and neck cancer into risk groups for localcontrol: predictive models
B. Dua (India), K. Chufal, G. Jadhav, A. Thakwani, A. Bhatnagar

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- > Intensive radiotherapy in locally advanced head and neck squamous cell cancer- is it worth the pain?
A. Pascoe (UK), C. Weston, J. Christian, M. Griffin, J. Price

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- > Impact of comorbidity, polypharmacy and HPV status in elderly patient with oropharyngeal cancer
F. Caparrotti (Canada), S. Huang, J. Ringash, Y. Song, A. Bayley, S. Bratman, J. Cho, M. Giuliani, A. Hope, J. Kim, J. Waldron, A. Hansen, D. Goldstein, B. Perez-Ordóñez, I. Weinreb, L. Tong, W. Xu, B. O'Sullivan

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- > Total tumour volume predicts response in head and neck cancer: regression tree analysis and models
B. Dua (India), K. Chufal, G. Jadhav, A. Thakwani, A. Bhatnagar

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- > Prognostic role of FDG PET-CT performed before and during radiotherapy for nasopharyngeal cancer
P. Lin (Australia), M. Min, M. Lee, L. Holloway, D. Forstner, V. Bray, A. Fowler

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- > Prognostic value of pretreatment FDG-PET features in laryngeal cancer patients treated with RT
R. Kabarriti (USA), P.N. Brodin, A. Ginsburg Berkowitz, A. Ingber, N. Ohri, K.P. McGovern, C. Modi, T.J. Ow, A. Tassler, S. Packer, B.A. Schiff, R.V. Smith, M. Haigentz, C. Guha, S. Kalnicki, W.A. Tomé, M.K. Garg

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- > Comparison of outcomes and toxicities between IMRT and SIB-IMRT in cancers of hypopharynx
M.S. Raghunathan (India), R. Subramaniam, A. Vaz, N. Senthil Kumar

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- > Radiation induced brachial plexopathy in head and neck carcinoma (acute and chronic)
S. Yahya (UK), M. Hickman, A. Hartley, P. Sanghera

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- > Re-irradiation for head and neck tumors: efficacy versus late toxicity in 137 patients
W. Bots (The Netherlands), S. Van den Bosch, L.C. Verhoef, E.M. Zwijnenburg, T. Dijkema, G. Van den Broek, W. Weijs, G.O. Janssens, J.H.A.M. Kaanders

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- > External validation of a mixture NTCP model of radiation-induced hypothyroidism (HT)
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- > Knowledge of HNC risk factors and symptoms – a survey among 1903 young Polish respondents
E. Sierko (Poland), A. Krentowska, A. Skoneczny, A. Strzałka, W. Pietruszewska, M.Z. Wojtukiewicz, E. Sierko

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- > Parotid toxicity in head and neck cancer patients treated with IMRT
G. Mantello (Italy), G. Capezzali, F. Cucciarelli, L. Vicenzi, M. Giacometti, M. Valenti, S. Maggi, M. Cardinali

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- > Review of thyroid ablation rates with RAI based on I131 uptake in differentiated thyroid carcinoma
M. Keys (Ireland), C. Faul, O. Boychek

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- > Role of perfusion CT in evaluation of tumour response after radiochemotherapy in H&N cancer
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- > Impact of waiting time for treatment initiation on glottic T1N0M0 cancer radiotherapy results
A. Mucha-Malecka (Poland), K. Urbanek, A. Chrostowska, J. Jakubowicz, P. Hebzda, K. Malecki

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- > A Prospective novative docetaxel-based neoadjuvant chemotherapy for advanced Head and Neck cancer
Y. Ting Shih (Taiwan), Y.C. Liu, M.D. Po-Ju Lin, M.D.-P.D. Jin-Ching Lin

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- > Impact of waiting time for treatment initiation on glottic T1N0M0 squamous cell carcinoma RT results
A. Mucha-Malecka (Poland), K. Urbanek, A. Chrostowska, K. Malecki, P. Hebzda, J. Jakubowicz

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- > Chemotherapy with hyperfractionated radiotherapy in head and neck carcinoma.
R. Carmona Vigo (Spain), J.M. Blanco, M. Lloret, R. Cabrera, P.C. Lara

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- > Role of adjuvant EBRT for papillary thyroid carcinoma invading the trachea: a single-institution study
Y.S. Kim (Republic of Korea), J.H. Choi, K.S. Kim, G.C. Lim, J.H. Kim, H.S. Song, S.A. Lee, G. Koh, C.L. Hyun, G.E. Kim

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- > Combination of RT and cetuximab for aggressive, high-risk CSCC of head and neck: a propensity score analysis
A. Raben (USA), J.D. Palmer, J. Strasser, A. Hanlon, M. Dzieda, N. Hockstein, C.J. Schneider

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- > A cut point for Ki-67 proliferation that predicts for poorer survival in high-grade glioma
E. Wong, P. Sundaresan (Australia), W. Varikatt, V. GebSKI, N. Nahar, T. Ng, J. Jayamohan

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- > Optic toxicity in radiation treatment of meningioma: a retrospective study in 213 patients
M. Farzin (Germany), M. Molls, S. Kampfer, S. Astner, R. Schneider, K. Roth, M. Dobrei, S. Combs, C. Straube

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- > Light seeing in radiotherapy of patients with brain tumours and head and neck malignancies
M. Farzin (Germany), M. Molls, S. Astner, S. Reitz, K. Kreiser, S. Kampfer

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- > Clinical outcomes in modern management of intratentorial ependymoma
R. Allison (USA), D. Remonde, S. Salenius, A. Hnatov, C. Ballenger, C. Mantz, E. Fernandez, D. Dosoretz, S. Finkelstein

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- > Stereotactic radiosurgery for brain metastases: neuropathological report of three autopsy cases
M. Sakuramachi (Japan), H. Igaki, A. Nomoto, N. Sekiya, W. Takahashi, K. Ookuma, M. Ikemura, H. Yamashita, K. Nakagawa EP-1115
- > Staged radiosurgery for petroclival meningiomas: preliminary results
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- > Frameless radiosurgery for acoustic schwannoma: a five-year experience
S. Payano Hernandez (Spain), O. Hernando Requejo, M. Lopez Gonzalez, E. Sanchez Saugar, M. Garcia-Aranda Pez, J. Valero Albarrán, A. Montero Luis, R. Ciervide Jurio, A. Rodriguez, R. Alonso, X. Chen, C. Rubio Rodriguez, R. Guimaraes Domingos da Silva EP-1117
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A. Klimov (Russian Federation), S. Rogers, L. Boxheimer, S. Bodis EP-1118
- > Treatment of Subependymal giant cell astrocytoma (SEGA): Is there a place for radiotherapy?
R. Atef Kamel (Belgium) EP-1119
- > Experience with robotic SBRT in treatment of intraspinal tumours
R. Garcia, A. Velazquez-Pacheco (Spain), I. Marrone, I. Santa-Olalla EP-1120
- > Treatment outcome of adult brain stem Glioma: a single institution experience
S. Chaudry (Pakistan), A. Rashid, S. Butt, A. Rashid, S. Hameed, A. Jamsheed EP-1121
- > Efficacy and safety of stereotactic reirradiation for recurrent brain metastases
F. Meniai-Merzouki (France), S. Maillard, B. Coche-Dequiant, T. Boulanger, E. Tresch, F. Crop, T. Lacornerie, E.F. Lartigau EP-1122
- > New aspects regarding the radiation of thalamic gliomas
E. Boelke (Germany), W. Budach, C. Matuschek, A. Hayman EP-1123
- > Outcomes of patients with 4 or more cerebral metastases treated with stereotactic radiosurgery
H. Benghiat (UK), A. Hartley, A. Kapadia, G. Heyes, P. Sanghera EP-1124

- > Survival, clinical response and prognostic factors in the reirradiation of recurrent brain tumors
M.S. Mariaquila Santoro (Italy), M.A.M. Maria Angela Molinaro, A.P. Armando Pingitore, L.R.F. Lucia Rachele Fabiano, A.C. Angelo Chirillo, A.S. Angela Saccomanno, L.P. Luigi Perrone, M.L. Marianna Lacaria, E.M. Elvira Mazzei, R.M. Rosa Molè, A.D. Anna Destito, D.P. Domenicantonio Pingitore

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- > Postoperative hypofractionated stereotactic radiotherapy to the resection cavity in brain metastases
M. Lopez Gonzalez (Spain), X. Chen, O. Hernando-Requejo, A. Muniz, S. Paredes, R. Ciervide Jurio, A. Montero Luis, E. Sanchez Saugar, M. García-Aranda, A. Ortiz de Mendevil, J. Valero, C. Rubio Rodriguez

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- > Combined chemotherapy and craniospinal irradiation of adults medulloblastoma and PNET tumors.
E. Nowicka (Poland), W. Bal, M. Jarzqb, M. Gawkowska-Suwińska, H. Grzbiela, B. Bobek-Billewicz, R. Tarnawski

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- > Outcome of high grade glioma patients: to prioritise dose to primary tumour or organs at risk?
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- > Pre and post-irradiation hypothalamic-pituitary axis dysfunction in adults treated for brain tumours
N. Taku (UK), A. Powlson, M. Romanchikova, A. Hoole, A. Bates, J. Hale, R. Jena, M. Gurnell, N. Burnet

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- > Hair-sparing whole brain radiotherapy with simultaneous integrated boost using high density bolus
S. Velázquez Miranda (Spain), E. Montero-Perea, R. Dorado-Dorado, M. Rubio

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- > Hypofractionated radiotherapy with temozolomide in poor prognosis glioma: a retrospective study
E. Pelle (Italy), E. Trino, M. Levis, M. Magistrello, C. Mantovani, U. Ricardi

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- > Application of IMRT technique in treatment of malignant gliomas: Assessment of treatment tolerance
K. Urbanek (Poland), A. Mucha-Małecka, P. Hebzda, K. Kisielewicz, K. Małecki, E. Góra, J. Jakubowicz

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- > Long-term follow-up and prognostic factors in low-grade glioma (WHO II) postoperatively irradiated
K. Urbanek (Poland), A. Mucha-Małecka, K. Małecki, A. Chrostowska, J. Jakubowicz

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- > Proton therapy re-irradiation for large-volume recurrent high-grade gliomas
D. Amelio (Italy), L. Widesott, F. Maines, F. Fellin, R. Righetto, S. Vennarini, B. Rombi, M. Cianchetti, F. Dionisi, D. Donner, U. Rozzanigo, M. Schwarz, F. Chierichetti, E. Galligioni, M. Amichetti

EP-1134
- > Hypofractionated stereotactic radiation therapy for cavernous sinus meningiomas
F. Meniai-Merzouki (France), B. Coche-Dequèant, T. Boulanger, F. Crop, T. Lacornerie, E. FLartigau

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- > Treatment with radiosurgery (stereotactic radiotherapy) in single session in brain metastases
P. Vargas Arrabal (Spain), J. Expósito, I. Tovar, M. Zurita, R. Del Moral, R. Guerrero, I. Linares, C. Prieto, S. Rodríguez, A. Ruiz

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- > Volumetric Modulated Arc Therapy (VMAT) and simultaneous boost for brain metastases patients
A. Papaleo (Italy), D. Russo, E. Donno, E. Cavallera, F.P. Ricci, G. Di Paola, M. Santantonio

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CLINICAL TRACK: HAEMATOLOGY

- > Evolution of radiation techniques in the treatment of mediastinal lymphomas: single center experience
N. Besson (France), S. Zefkili, V. Pernin, S. Horn, D. Peurien, N. Fournier Bidoz, Y. Kirova

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- > Clinical results of radiation therapy for localised gastric lymphoma
H. Ihara (Japan), K. Katsui, K. Hisazumi, N. Katayama, M. Takemoto, M. Iwamuro, Y. Kawahara, H. Okada, S. Kanazawa

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- > Role of radiotherapy in treatment of Hodgkin and non Hodgkin lymphomas - our experience
D. Scepánovic (Slovakia), A. Masarykova, M. Pobjaková, M. Fekete, A. Hanicová, M. Masar, Z. Dolinska

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- > Second cancer in Primary Mediastinal Lymphoma treated with MACOP-B ± R and mediastinal radiotherapy
V. De Sanctis (Italy), M. Alfò, A. Di Rocco, A. Ansuinelli, E. Russo, M. Osti, M. Valeriani, G. Minniti, L. Grapulin, D. Musio, S. Bracci, A. Spagnoli, M. Moleti, V. Tombolini, M. Martelli

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- > Role of radiotherapy (RT) in patients undergoing haemopoetic stem cell transplant(HSCT) for lymphoma
M. Singhera (UK), M. Kazmi, N. Mikhaeel

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- > Splenic irradiation as treatment modality in neoplastic hematological disorders
L. Díaz Gómez (Spain), A. Seguro Fernandez, J. Jaen Olosolo, I. Villanego Beltran, V. Diaz Diaz, E. Gonzalez Calvo, L. Ingunza Baron, L. Gutierrez Bayard, M.C. Salas Buzon, S. Garduño

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- > Clinical outcomes according to molecular subtypes in locally advanced breast cancer patients
H. Kim (Republic of Korea), W. Park, S.J. Huh, D.H. Choi, J.M. Noh

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- > EBRT vs IORT for breast conserving therapy A large mature single institution matched-pair evaluation
V. Vanoni (Italy), S. Bou Selman, S. Mussari, L. Menegotti, A. Ferro, A. Caldara, M. Nagliati, G. Berlanda, C. Prezzi, L. Tomio

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- > Non-surgical therapy of early breast cancer with novel enzyme-targeting radiosensitisation
K. Kobayashi (Japan), A. Nishioka, Y. Ogawa, T. Yamagami

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- > Hypofractionated vs conventional radiotherapy: is there a difference in local recurrence?
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N. Grellier Adedjouma (France), A. Levy, A. Suissa, F. Belkhir, P. Xu, F. Martinetti, D. Planchard, B. Besse, C. Le Péchoux

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- > Stereotactic Body Radiation Therapy (SBRT) for recurrent lung cancer following prior radiation
J. Wurzer (USA), M. Mackowsky

EP-1251
- > Oligometastatic NSCLC: long-term results show efficiency of radical approaches in selected patients
A. Bunea (Germany), D. Schiebahn, D. Schanne, T. Schimek-Jasch, E. Gkika, S. Wiesemann, J. Rawluk, C. Waller, A.L. Grosu, U. Nestle

EP-1252
- > Local control and toxicity for centrally located NSCLC: SABR in no fly zone
C. Menichelli (Italy), G. Pastore, A. Fanelli, S. Grespi, P. Ferrazza, A. Chella, I. Petrini, F. Casamassima

EP-1253
- > Updated outcomes for patients treated with SABR for lung cancer at the Leeds Cancer Centre
P. Murray (UK), K. Spencer, P. Dickinson, M. Snee, P. Jain, K. Clarke, K. Franks

EP-1254
- > SABR and FDG-PET in lung cancer: a SUV cut-off value before treatment to predict local control.
S. Vagge (Italy), M. Marcenaro, G. Timon, G. Siffredi, R. Corvò

EP-1255

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CLINICAL TRACK: UPPER GI (OESOPHAGUS, STOMACH, PANCREAS, LIVER)

- > Stereotactic body radiation therapy for liver metastases using RapidArc technique
E. Del Cerro (Spain), A.A. Diaz Gavela, F. Couñago Lorenzo, F. Marcos Jimenez, E. Pardo Perez, Y. Molina Lopez

EP-1256

- > Stereotactic radiotherapy for recurrent pancreatic adenocarcinoma at stump or abdominal lymph nodes
H.H. Wang (China), H.H. Wang, M.B. Meng, Z.Q. Wu, Y.C. Song,
 H.Q. Zhuang, D. Qian, L.J. Zhao, Z.Y. Yuan EP-1257
- > Concurrent high-dose (60-70 Gy) radiation and chemotherapy for esophageal cancer: long-term results
T. Kondo (Japan), Y. Shibamoto, A. Hayashi, A. Miyakawa, T. Murai,
 T. Yanagi, C. Sugie, Y. Ogawa EP-1258
- > Clinical significance of lymphocyte count before chemoradiotherapy in resected pancreatic cancer
J. Heo (Republic of Korea), O.K. Noh, H.W. Lee, M. Chun, Y.T. Oh, J. Kim EP-1259
- > Prognostic factors in hepatoma patients treated with radiotherapy for lymph node metastasis
C.W. Wee (Republic of Korea), K. Kim, E.K. Chie, S.J. Yu, Y.J. Kim,
 J.H. Yoon EP-1260
- > Impact of sarcopenia on adverse effects in trimodality therapy for esophageal carcinoma
C. Panje (Switzerland), L. Höng, G. Henke, T. Ruhstaller, M. Guckenberger,
 V. Baracos, L. Plasswilm EP-1261
- > Survival and symptom relief after salvage radio(chemo)therapy for recurrent esophageal cancer
 P.G. Kup, A. Gitt, H. Bühler, I.A. Adamietz, K. Fakhrian (Germany) EP-1262
- > Survival and symptom relief after palliative radiotherapy for esophageal cancer
 P.G. Kup, J. Welsch, H. Bühler, H. Hermani, I.A. Adamietz,
K. Fakhrian (Germany) EP-1263
- > Patterns of recurrence in stage pT3N0M0 thoracic ESCC patients after two-field esophagectomy
Y.X. Wang (China), L.L. Wang, Z.S. Li, M. He, Q. Yang, J. Li, Z. Qi,
 S.C. Zhu, X.Y. Qiao EP-1264
- > Salvage chemoradiation for locoregional recurrences of esophageal cancer after curative treatment
P.M. Jeene (The Netherlands), E. Versteijne, E.D. Geijsen,
 M.I. Van Berge Henegouwen, J.J.G.H.M. Bergmann, K. Muller,
 H.W.M. Van Laarhoven, M.C.C.M. Hulshof EP-1265

- > Acute health-related quality of life changes after liver stereotactic ablative radiotherapy
H. Chung (Canada), J. Helou, I. Thibault, W. Chu, D. Erler, K. Chan, E. Chow, R. Korol, M. Davidson, L. Zhang

EP-1266
- > Induction chemotherapy followed by chemoradiotherapy in locally advanced pancreatic adenocarcinoma
J. Reure (France), J. Doyen, A. Falk, D. Lam Cham Kee, L. Evesque, P. Follana, E. François, K. Benzery

EP-1267
- > Dosimetric parameters predict toxicity in chemoradiotherapy with nelfinavir for pancreatic cancer
D. Holyoake (UK), J. Wilson, M. Partridge, T. Brunner, S. Mukherjee, M. Hawkins

EP-1268
- > Dose tolerance of small bowel in patients treated with radiochemotherapy for pancreatic cancer
L. De Filippo (Italy), G.C. Mattiucci, N. Dinapoli, M. Boccardi, V. Pollutri, M. Bianchi, R. Canna, S. Chiesa, G. Macchia, A. Morganti, V. Valentini

EP-1269
- > SBRT for liver metastases from low grade neuroendocrine tumors
M. Bignardi (Italy), A. Huscher, M. Centurioni, M.M. Colangione, D. Barbieri, M. Galelli, A. Zaniboni

EP-1270
- > Stereotactic body radiation therapy for malignant tumours of the pancreas
X. Chen (Spain), E. Sanchez, A. Montero, O. Hernando, M. Lopez, J. Garcia, J.M. Perez, R. Ciervide, J. Valero, M. Garcia-Aranda, R. Alonso, D. Zucca, M.A. De la Casa, B. Alvarez, S. Payano, J. Marti, L. Alonso, P. Fernandez-Leton, C. Rubio

EP-1271
- > Stereotactic radiotherapy in pancreatic cancer. Review of two different treatment approaches.
E. Gkika (Germany), S. Kirste, S. Adebahr, T. Schimek-Jasch, R. Wiehle, K. Zirlik, U. Wittel, U. Nestle, A.L. Grosu, T. Brunner

EP-1272
- > Clinical results of stereotactic ablative radiotherapy in the treatment of liver metastases
M. Fiore (Italy), P. Trecca, L. Trodella, C. Rinaldi, P. Matteucci, S. Silipigni, A. Iurato, S. Ramella, R. D'Angelillo, L. Trodella

EP-1273

- > Prognostic factors of gastric cancer treated with adjuvant radiochemotherapy
M. Martín Sanchez (Spain), M.A. Perez Escutia, M.C. Peña Sanchez, D. Lora Pablos, S. Guardado Gonzalez, S. Pedraza Fernandez, T.C. Chavez Jimenez, A. Moreno Hurtado, M. Casado Jimenez, J.P. Perez-Regadera Gomez EP-1274
- > Influence of pretreatment blood parameters on the outcome of gastric cancer patients.
A. Namysl-Kaletka (Poland), J. Wydmanski, A. Tukiendorf, E. Wolny- Rokicka, I. Wzietek, D. Gabrys EP-1275
- > Stereotactic robotic body radiotherapy for patients with unresectable hepatic oligometastases.
P. Berkovic (Belgium), P. Viet Nguyen, A. Gulyban, D. Dechambre, P. Martinive, N. Jansen, P.A. Coucke EP-1276
- > Adjuvant chemoradiation for resected gallbladder cancer: single center 25-year experience
C. Solé (Chile), V. Solé EP-1277
- > CCRT with or without Surgery using Helical Tomotherapy or IMRT for Esophageal cancer patients
P.Y. Hou (Taiwan), W. Le-Jung, H. Chen-Hsi, S. Pei-Wei EP-1278
- > SABR in inoperable liver oligometastatic patients and radioresistant primary tumors.
E. Clerici (Italy), T. Comito, L. Cozzi, A. Fogliata, A. Tozzi, C. Iftode, C. Franzese, P. Navarria, G.R. D'Agostino, P. Mancosu, F. Lobefalo, S. Tomatis, M. Scorsetti EP-1279

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CLINICAL TRACK: LOWER GI (COLON, RECTUM, ANUS)

- > Preoperative short vs. long course chemoradiation with delayed surgery for rectal cancer patients
M.J. Chung (Republic of Korea), W.K. Chung, D.W. Kim, S.H. Lee, S.K. Jeong, J.K. Hwang, C.S. Jeong EP-1280
- > DVH relationships in rectal cancer: effects of contouring methods and patient positioning
N. Bennion (USA), Y. Lei, V. Verma, A. Bhirud, G. Blessie, C. Lin EP-1281

- > Does blood glucose level normalisation improve PET-based response prediction in rectal cancer?
L. Loye (Belgium), A. Debucquoy, A. Wolthuis, A. D'Hoore, E. Van Cutsem, V. Vandecaveye, X. Sagaert, C. Deroose, K. Haustermans
EP-1282
- > Outcomes and toxicities in advanced anal cancer treated with radical VMAT chemoradiotherapy
E. Jiad (UK), D. Woolf, N. Pasha, S. Ball, S. Raouf
EP-1283
- > Predictive factors of tumour response after neoadjuvant chemoradiation for rectal cancer
F. Lopez Campos (Spain), A. Hervas, C. De la Pinta, J.A. Dominguez, E. Fernández, M. Martin
EP-1284
- > Is watch and wait policy after chemoradiotherapy for rectal cancer detrimental to outcome?
N. Pasha (UK), D. Woolf, E. Jiad, S. Ball, S. Raouf
EP-1285
- > Does dose-escalated neo-adjuvant radiotherapy improve pathological response in rectal cancers?
N. Pasha (UK), D. Woolf, M. Martinou, K. Williams, S. Ball, S. Raouf
EP-1286
- > Radiation-induced rectal toxicity in prostate cancer: a proctoscopy evaluation
E. Ippolito (Italy), M. Nuzzo, G. Macchia, F. Deodato, S. Cilla, M. Ingrassio, L. Fuccio, A. Farioli, G. Mantini, V. Valentini, G.C. Mattiucci, G. Siepe, M. Ntreta, S. Cammelli, A. Guido, M. Pieri, A. Arcelli, F. Bertini, L. Ronchi, A.G. Morganti
EP-1287
- > Sphincter function and dose of radiation in rectal cancer. A Single-Institutional study
F. Arias (Spain), C. Eito, G. Asín, I. Mora, K. Cambra, F. Mañeru, B. Ibáñez, L. Arbea, M. Errasti, M. Barrado, M. Campo, I. Visus, J. García-Escobedo, C. Torres, M. Ciga
EP-1288
- > Anal squamous cell carcinoma; a retrospective case series
O. Houlihan (Ireland), S. O'Sullivan, M. Dunne, O. Salib, C. Gillham, G. McVey, C. Faul, M. Cunningham, J. Armstrong, D. McNamara, B. O'Neill
EP-1289
- > A review of grade 3 bowel toxicity in patients treated with chemoradiotherapy for rectal cancer
J.A. King, L. Davidson, N. Alam, C. Arthur, C. McBain, A. Mirza, M. Saunders, V. Misra (UK)
EP-1290

- > Can mucosal criteria estimate response in rectal cancer treated with neoadjuvant chemoradiotherapy?
A. Garant (Canada), T. Niazi, A. Gologan, A. Spatz, J. Faria, N. Morin, C. Vasilevsky, M. Boutros, T. Vuong
 EP-1291
- > Association between obesity and local control of rectal cancer after surgery and radiotherapy
Y.S. Choi (Republic of Korea)
 EP-1292
- > Intensified neo-adjuvant chemoradiotherapy in locally advanced rectal cancer: long-term follow-up
F. De Felice (Italy), D. Musio, A.L. Magnante, N. Bulzonetti, I. Benevento, R. Caiazzo, V. Tombolini
 EP-1293
- > Total mesorectal excision vs. local excision following preoperative RT for “early” cT3 rectal cancer
Y. Shin (Republic of Korea), J.H. Park, J.C. Kim, C.S. Yu, T.W. Kim, J.H. Kim
 EP-1294
- > Anal cancer as a second human papillomavirus-related presentation after cervical dysplasia/neoplasia
A. Yates (Australia), S. Pendlebury, E. Segelov
 EP-1295
- > A correlation between PTV dosimetric criteria and pathological response in rectal cancer patients
A. Franzetti Pellanda (Switzerland), P. Urso, S. Gianolini, B. De Bari, G. Ballerini, L. Negretti, C. Vite, N. Corradini
 EP-1296
- > Impact of 18F-FDG-PET/CT in evaluating the response to neoadjuvant chemoradiotherapy in rectal cancer
S. Pedraza Fernández (Spain), M. Pérez-Escutia, D. Sánchez-Fuentes, P. Nenclares, S. Ruiz-Solís, M. Peña, D. Lora, J. Pérez-Regadera
 EP-1297
- > Stereotactic radiotherapy in oligometastatic patients with lung metastasis from colon-rectal cancer
S. Montrone (Italy), C. Vivaldi, G. Coraggio, M. Cantarella, B. Manfredi, C. Laliscia, G. Masi, F. Loupakis, A. Falcone, M.G. Fabrini, A. Sainato, F. Pasqualetti
 EP-1298
- > Tomotherapy for anal cancer: analysis of toxicity and response in a dual institution experience
P. Bonomo (Italy), B. Meduri, E. D'Angelo, A. Galardi, C. Delli Paoli, C. Tata, G. De Marco, I. Desideri, F. Bertoni, L. Livi
 EP-1299

- > Preoperative, Adaptive Radiotherapy with Tomotherapy concomitant with chemotherapy in rectal cancer
P. Passoni (Italy), N. Slim, C. Fiorino, C. Gumina, M. Ronzoni, F. De Cobelli, A. Palmisano, V. Ricci, A. Fasolo, A. Tamburini, P. De Nardi, S. Di Palo, C. Staudacher, R. Rosati, R. Calandrino, N. Di Muzio

EP-1300
- > Neoadjuvant treatment intensification in cT4NXM0 rectal cancer: long-term outcome analysis.
F. Calvo (Spain), E. Sagarra, J. Garcia-Sabrido, E. Del Valle, M. Rodriguez, E. Alvarado Vasquez, C. Sole, M. Gomez-Espi, M. Lozano, R. Obregon

EP-1301
- > The utility of Squamous Cell Carcinoma SCCAg as a marker for treatment response or relapse
L. Pietrzak (Poland), K. Bujko

EP-1302
- > Radiotherapy dose-escalation in rectal cancer: preliminary results of a pooled analysis.
M. Lupattelli (Italy), V. Picardi, F. Navarra, M.A. Gambacorta, M. Osti, G. Macchia, E. Palazzari, A.M. Podlesko, A. Re, L. Nicosia, A. De Paoli

EP-1303
- > Image guided intensity modulated radiotherapy for anal cancer: a multi institutional study
B. De Bari (Switzerland), L. Lestrade, A. Franzetti Pellanda, R. Jumeau, M. Kountouri, O. Matzinger, N. Corradini, M. Biggiogero, G. Ballerini, J. Bourhis, R. Miralbell, M. Ozsahin, T. Zilli

EP-1304
- > Impact of time from neoadjuvant treatment and surgery in rectal cancer: a monoinstitutional report
L. Belgioia (Italy), A. Bacigalupo, I. Chiola, G. Blandino, G. Lamanna, S. Vagge, S. Scabini, E. Romairone, R. Murialdo, A. Ballestrero, R. Corvo

EP-1305
- > Helical Tomotherapy with daily image guided radiotherapy for neoadjuvant treatment of rectal cancer
B. De Bari (Switzerland), A. Franzetti Pellanda, A. Saidi, G. Ballerini, M. Biggiogero, L. Negretti, A. Durham, J. Bourhis, M. Ozsahin

EP-1306
- > Chemoradiation in anal cancer with using VMAT: toxicity and early outcome.
D. Russo (Italy), E. Donno, A. Papaleo, E. Cavalera, C. Capomolla, D. De Luca, G. Di Paola, F.P. Ricci, M. Santantonio

EP-1307
- > Effect of prone and supine positions on setup and organ-at-risk sparing using VMAT for rectal cancer
A. Kim, A. Karotki, J. Foster, K. Yip, J. Presutti, S. Wong, W. Chu (Canada)

EP-1308

- > Predictive value of FDG-PET in rectal cancer: correlation with tumour characteristics and response.

L. Turri (Italy), F. Apicella, A. Caroli, R. Grasso, S. Torrente, E. Puta, D. Ferrante, G.M. Sacchetti, M. Brambilla, M. Krengli

EP-1309

- > PV of FDG-PET SUV in rectal cancer pts: correlation with tumor characteristics/response to neoadj RT

L. Turri (Italy), F. Apicella, A. Caroli, R. Grasso, S. Torrente, E. Puta, D. Ferrante, G. Sacchetti, M. Brambilla, M. Krengli

EP-1310

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CLINICAL TRACK: GYNAECOLOGICAL (ENDOMETRIUM, CERVIX, VAGINA, VULVA)

- > Chemoradiotherapy followed by surgery in patients with locally advanced cervical carcinoma

J. Anchuelo Latorre (Spain), A. Kannemann, A.S. Garcia Blanco, M. Ferri Molina, P. Galdos Barroso, A. Muniz Garcia, J.C. Menendez Garcia, J. Cardenal Carro, R. Fabregat Borrás, H. Vidal Trueba, R. Jimeno Mate, S. Hermana Ramirez, J. Estevez Tesouro, P. Prada Gomez

EP-1311

- > Measurement of GTV delineation uncertainty for centrally recurrent gynaecological cancers

D. Bernstein (UK), M. Llewelyn, A. Taylor, S. Nill, U. Oelfke

EP-1312

- > Short course post operative IMRT on vaginal vault of endometrial tumor at low-risk of recurrence

G. Macchia (Italy), S. Cilla, F. Deodato, M. Nuzzo, A. Ianiro, D. Catani, V. Valentini, G. Ferrandina, A. Galuppi, M. Ferioli, S. Cammelli, L. Ronchia, S. Cima, M. Perrone, P. De Iaco, F. Romani, G. Frezza, A.G. Morganti

EP-1313

- > External beam boost for cancer of the cervix in patients unable to receive brachytherapy

H. Kim (Republic of Korea), Y.S. Kim, K.Y. Eom, W. Park, J.H. Kim, J.H. Lee, Y.S. Kim, S.H. Lee, K. Ahn, Y.B. Kim, M.Y. Lee, S.K. Chang

EP-1314

- > Abdominopelvic Radiotherapy for advanced endometrial cancer after surgery and chemotherapy: results

V. Rodriguez Gonzalez (Spain), J. Perez-Regadera, D. Lora, A. Campos, C. Chavez, B. Gil, R. Prados, M. Colmenero

EP-1315

- > Value of imaging modalities in predicting pelvic lymph node metastases for uterine cervical cancer
W.K. Jung (Republic of Korea), K.J. Lee, J.H. Lee, Y.J. Kim, J.Y. Kim, H.J. Yoon, B.C. Kang, S.C. Kim, H.S. Moon, W. Ju, Y.H. Kim, K.R. Park EP-1316
- > Prognostic and predictive factors in endometrial cancer
K. Boudaoud (Algeria), S. Taleb, A. Brihmat, L. Beddar, H. Boudaoud, R. Aissani, S. Boussouf, A. Boukaaba, T. Filali, A. Djemaa EP-1317
- > Presence of lymph nodes and survival in cancer cervix: audit from tertiary care hospital in India
S. Singh (India), J. Lamin, D. Kapoor, A. Rani, N. Rastogi, S. Kumar EP-1318
- > Clinicopathological characteristics of patients with synchronous ovarian & endometrial cancers
S. Chaudry, T. Sadaf (Pakistan), S. Butt, A.A. Syed, N. Siddique, A. Jamshed, A. Kazmi EP-1319
- > Postoperative radiotherapy results of serous endometrial carcinoma: 34 cases during 2003-2014
K. Holub (Spain), A. Roviroso, G. Oses, L. Castilla, J. Mansilla, R. Llorente, K. Cortes, J. Garcia, S. Garrido, A. Huguet, C. Castro, J. Sola, J. Ordi, J. Pahisa, A. Biete EP-1320
- > Postoperative treatment results of clear-cell endometrial carcinoma: 20 cases from 2005 to 2014
G. Oses (Spain), K. Holub, A. Roviroso, L. Castilla, J. Mansilla, R. Llorente, K. Cortes, J. Ordi, J. Pahisa, M. Arenas, S. Sabater, A. Biete EP-1321
- > Effects of upfront radiotherapy on isolated para-aortic lymph node metastasis in cervical cancer
J.H. Kim (Republic of Korea), K.Y. Eom, I.A. Kim, H.G. Wu, H.J. Kim EP-1322
- > Clinical audit of cervical cancer records from Kidwai Memorial Institute of Oncology, South India
S. Palled (India), U.K. Annasagara Srivinas, N. Thimmiah, V. Raghu, T. Chitradurga Abdul Razack, N. Srinath, V. Chandraraj, S. Goyal, L. Vishwanath, G. Hosahalli Boriah, S. Poojr, G. G Venkata, J. Kunigal Puttaswamy EP-1323
- > High risk early stage endometrial cancer: lymphadenectomy with brachytherapy as alternative to EBRT
R.L. Fabiano (Italy), M. Molinaro, M. Santoro, E. Mazzei, R. Molè, A. Destito, D. Pingitore, C. Bianco EP-1324

- > Phase I/II study of weekly cisplatin plus paclitaxel and radiotherapy for primary cervical cancer
L. Zhu (China), W. Jiang, S. Tian, A. Qu, H. Wang, X. Li, A. Liao, Y. Jiang, J. Wang

EP-1325
- > The role of PET CT in the IMRT of cervical cancer: the experience of the Institute of Candiolo
G. Cattari (Italy), S. Squintu, E. Delmastro, E. Garibaldi, S. Bresciani, P. Scapoli, S. Cauda, C. Bracco, T. Varetto, P. Gabriele

EP-1326
- > Clinical outcomes of dose escalation using simultaneous integrated boost in cervical cancer
R. Verges Capdevila (Spain), A. Varo, M. Mañas, A. Giraldo, J. Giral

EP-1327
- > Phase I study of weekly PTX/DDP, and postoperative radiotherapy for early cervical cancer in Chinese
L. Zhu (China), W. Jiang, S. Tian, A. Qu, H. Wang, X. Li, J. Wang

EP-1328
- > Vaginal & pelvic recurrences of endometrial carcinoma with BT HDR alone or in combination with EBRT
S. Gribaudo (Italy), U. Monetti, A. Mussano, S. La Sala, E. Madon, V. Richetto, A. Sardo, A. Rossi, M. Tessa, F. Moretto, A. Ruggieri, E. Delmastro, G. Cattari, - Katsaros, P. Gabriele, A. Urgesi

EP-1329
- > Single center experience with definitive radiotherapy for vaginal cancer
H. Westerveld (The Netherlands), J.J. Den Haan, E.C.M. Rodenburg, J. Wiersma, G.G. Kenter, B.R. Pieters, L.J.A. Stalpers

EP-1330
- > Cancer of uterine cervix: PET-CT, IMRT and HDR.
M. Garcia-Aranda, X. Chen (Spain), A. Montero, J. Valero, R. Alonso, D. Zucca, R. Ciervide, M. Lopez, B. Alvarez, S. Payano, E. Sanchez, O. Hernando, C. Rubio

EP-1331
- > Clinical results of nimotuzumab plus DDP and concurrent radiotherapy for primary cervix cancer
L. Zhu (China), S. Tian, A. Qu, H. Wang, X. Li, Y. Jiang, H. Sun, L. Lin, J. Wang

EP-1332

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CLINICAL TRACK: PROSTATE

- > PSA kinetics after hypofractionated stereotactic body radiotherapy for localised prostate cancer
H. Kim (Republic of Korea), J.H. Phark, W.C. Kim

EP-1333

- > PSA kinetics following SBRT versus conventionally fractionated EBRT for localised prostate cancer
H. Kim (Republic of Korea), J.H. Phark, W.C. Kim

EP-1334
- > Prostate cancer hypofractionation: impact of prostate gland dimension in genitourinary toxicity
S. Fersino (Italy), N. Giaj Levra, R. Mazzola, A. Fiorentino, F. Ricchetti, R. Ruggieri, F. Alongi

EP-1335
- > Hypofractionated salvage radiotherapy after radical prostatectomy
P. Bulychkin (Russian Federation), S. Tkachev, A. Mikhailova

EP-1336
- > PSA Kinetics: HDR Prostate Brachytherapy boost in combination with external beam radiotherapy
S. Rodda (UK), F. Sun, A. Henry, K. Franks, D. Bottomley

EP-1337
- > Delay Haematuria after prostatic radiotherapy: do it mean always radiation cystitis?
S. Rodríguez Villalba (Spain), M. Santos Ortega, M. Depiaggio, A. Fuster, P. Torrus, J. Martinez, J. Canovas, L. De la Torre, J. Moreno, J. Richart, A. Otal, J. Perez Calatayud

EP-1338
- > Influence of leaf thickness on prostate VMAT about dosimetric and delivering parameters
H. Nagano (Japan), H. Yokoyama, H. Hashimoto, M. Watanabe, M. Nakanishi, Y. Kishida, T. Ogawa, T. Kawasaki, M. Katou, T. Shimo, K. Ishizuka

EP-1339
- > Nomograms predicting the probabilities of having indications for adjuvant prostatic radiotherapy
M. Ma (China), X. Gao, Z. Zhou, B. Zhao

EP-1340
- > Single-nucleotide polymorphisms associated with toxicity to radiotherapy in prostate cancer patients
G. Spagnoletti (Italy), P. Frisani, M. Natalicchio, M. Enfasi, G. Cocco, G. Nardella, G. Plotino, G. Bove

EP-1341
- > F-18Fluorocholine-PET/CT guide salvage therapy in biochemical failure of prostate cancer
M. Barrado (Spain), A. Sola, P. Navarrete, E. Villafranca, M. Rico, M. Errasti, M. Campo, I. Visus, S. Flamarique, M. Rodríguez, E. Martínez

EP-1342

- > PET-CT-related treatment changes in high risk and recurrent prostate cancer
A. Müller (Germany), D. Zips, D. Wegener, G. Reischl, K. Nikolaou, C. La Fougère, C. Pfannenberger EP-1343
- > Influence of surgical margins on the biochemical and radiological characteristics of the recurrence
L.G. Sapienza (Brazil), J.D. Panichella, R.C. Camargo, A. Ernani, J.P. Dos Reis Junior, G.A. Pavan, H.A. Salmon EP-1344
- > SBRT in low- and intermediate-risk prostate cancer: results of a phase II study
G. D'Agostino (Italy), E. Villa, C. Franzese, R. Liardo, G. Reggiori, P. Navarria, C. Iftode, F. De Rose, D. Franceschini, A. Tozzi, T. Comito, A. Ascolese, S. Tomatis, M. Scorsetti EP-1345
- > Intraoperative radioterapy (IORT) in the multimodality treatment of locally advanced prostate cancer
M. Krenqli (Italy), D. Beldi, G. Apicella, G. Marchioro, C. Pisani, E. Ferrara, C. Perotti, G. Loi, A. Volpe, C. Terrone EP-1346
- > Could “radical” RT be a reasonable choice in bone oligometastatic prostate cancer patients?
C.L. Deantoni (Italy), C. Cozzarini, A. Fodor, B. Noris Chiorda, P. Mangili, M. Picchio, E. Incerti, I. Dell’Oca, P. Passoni, C. Fiorino, R. Calandrino, N. Di Muzio EP-1347
- > Endoscopic evaluation of late rectal toxicity after radiotherapy in 597 prostate cancer patients
M. Nuzzo (Italy), G. Macchia, S. Cilla, M. Ingrosso, C. Digesù, L. Di Lullo, E. Ippolito, F. Deodato, G. Siepe, M. Ntreta, M. Pieri, S. Cammelli, R. Schiavina, G. Martorana, A. Di Lallo, A.L. Angelini, G. Frezza, V. Valentini, A.G. Morganti EP-1348
- > Long term results of a phase I-II study of moderate hypofractionated IGRT in prostate cancer
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A. Nisbet (UK), A. Dimitriadis, A.L. Palmer, C.H. Clark

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- > Online control point resolved VMAT QA using the integral quality monitor and log files
M. Pasler (Germany), M. Obenland, J. Christ, Y. Jaout, H. Wirtz, M. Bjoernsgard, J. Lutterbach, F. Wittkamper, D. Georg

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- > VMAT pre-treatment verification using Octavius 4D system: from simple to more complex plans
H. Aslian (Italy), M. Severgnini, F. Cupardo, R. Vidimari, M. De Denaro

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- > Study of the characteristic of enhanced dynamic wedged depth dose profiles in non-homogenous media
A. Hussain, A. Zaman (Pakistan), M.B. Kakakhel

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- > Impact of dose calculation algorithm on SBRT and normofractionated lung radiotherapy in breath hold
M. Josipovic (Denmark), G. Persson, J. Rydhög, J. Bangsgaard, L. Specht, M. Aznar

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- > Influence of dose specification on prostate VMAT patient-specific QA results
F. Clemente Gutierrez (Spain), C. Perez Vara, M. Clavo Herranz, C. Lopez Carrizosa, J. Saez Garrido, C. Ibañez Villoslada, M. Couselo Paniagua, J. Zapatero Ortuño, M. Martin de Miguel, M. Dominguez Morcillo, V. Jerviz Guia, A. Calapaqui Teran, M. Guijarro Verdu, J. Navarro

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- > Influence of inner materials of rectal balloon on TPS calculation accuracy and dose distribution
J. Koo (Republic of Korea)

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E. Sukhikh (Russian Federation), A. Lysakov, E. Malikov, L. Sukhikh

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M. Ghorbanpour Besheli (Germany), O. Fielitz, W. Budach, I. Simiantonakis

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S. Russo (Italy), L. Masi, A. Bergantin, E. De Martin, R. Doro, C. Frassanito, M.L. Fumagalli, A.S. Martinotti, E. Rondi, S. Vigorito, P. Mancosu

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- > PTW Starcheck 2D array for Quality Control in IOERT: an evaluation of accuracy and dose consumption
M. Severgnini (Italy), H. Aslian, M. De Denaro

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- > Retrospective study of IORT sarcoma treatment using an innovative dedicated TPS
A. Soriani (Italy), A. Ciccotelli, S. Carpino, M. Petrongari, M. D'Andrea, G. Iaccarino, G. Felici, M. Benassi, P. Pinnarò, C. Giordano, G. Sanguineti, R. Biagini, L. Strigari

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L. Richardson (UK), A. Aitkenhead, T. Lomax, S. Safai, F. Albertini, R. Mackay

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L. Bartolucci (France), O. Jordi-Ollero, M. Robilliard, S. Caneva-Losa

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- > PRIMO software as a tool for Monte Carlo treatment quality control in IMRT: a preliminary study
V. Pita (Portugal), A. Esposito, A. Dias, J. Lencart, J. Santos

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- > Characterization of a new EPID-based system for in-vivo dosimetry in VMAT treatments
S. Bresciani (Italy), M. Poli, A. Miranti, A. Maggio, A. Di Dia, C. Bracco, M. Stasi

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- > Sensitivity and specificity of gamma index method for Tomotherapy plans.
M. Stasi (Italy), S. Bresciani, A. Miranti, M. Poli, A. Di Dia, A. Maggio, E. Delmastro, P. Gabriele

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M. Hussein (UK), A. Nisbet, C.H. Clark

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 G. Verona-Rinati, P. Bonomo, L. Livi, S. Pallotta EP-1589
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L. Shields (Ireland), B. McClean

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A. Krechetov (USA), D. Goer

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- > Improved performance of the Varian TrueBeam Portal Dosimetry system for large fields
G. Beyer (Ireland), P. Houston, L. Goodyear, P. Davies, J. McLellan

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- > Evaluation of safety by skin dosimetry in Intraoperative Radiotherapy for breast cancer patients
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- > Dose from kV cone beam CT to lens, breast and gonads for children using different standard protocols
M.S. Assenholt (Denmark), R. Hansen, J. Hansen

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- > Second cancer risk after RT for rectal cancer: 3DCRT vs VMAT using different fractionation schemes
D. Zwahlen (Switzerland), L. Bischoff, G. Gruber, U. Schneider

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- > CT imaging doses in radiotherapy – A single centre audit
K. Armoogum, G. Cornish (UK), S. Evans

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- > Radiation safety shielding for high dose rates from flattening filter free treatment modalities
S. Sawchuk (Canada), C. Lewis

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Y. Dzierma (Germany), K. Bell, E. Ames, F. Nuesken, N. Licht, C. Rübe EP-1609
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- > Optimizing breast imaging dose in CBCT using patient specific acquisition parameter
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L. Irazola (Spain), M. Ortiz-Seidel, S. Velázquez, M. García-Hernández, J. Terrón, B. Sánchez-Nieto, M. Romero-Expósito, J. Roselló, F. Sánchez-Doblado EP-1613
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H. Chesneau (France), D. Lazaro, J. Plagnard, C. Lafond, O. Henry, V. Blideanu EP-1614
- > Decreasing cone beam CT scan's doses and duration for breast cancer
T. Bora (Turkey), I.F. Durmus, M.V. Ertekin, E.M. Fayda, S. Tokdemir Ozturk EP-1615
- > Secondary cancer induction of VMAT technique in breast irradiation: organ equivalent dose estimation
G. Guidi (Italy), N. Maffei, F. Itta, E. D'angelo, B. Meduri, P. Ceroni, G. Mistretta, A. Ciarmatori, G. Gottardi, P. Giacobazzi, T. Costi EP-1616
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M. Valenti (Italy), M. Parisotto, C. Ardito, M. Puschi, S. Costantini, M. Cardinali, S. Maggi EP-1617

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- > Ovaries and uterus Equivalent dose to in patients treated for Hodgkin Lymphoma with mediastinal RT
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A. Aasa (Estonia), M. Vardja, K. Kepler

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- > Automated extraction and management of radiotherapy imaging dose data
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- > Cyberknife M6TM: peripheral dose evaluation in brain treatments
N. Delaby (France), J. Bellec, J. Bouvier, F. Jouyaux, M. Perdrieux, J. Castelli, I. Lecouillard, V. Blot, J.P. Manens, C. Lafond

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- > Correlation of organ doses and IEC and AAPM methods for cone beam computed tomography (CBCT)
A. Abuhaimed (UK), C.J. Martin, M. Sankaralingam, M. Metwaly, D.J. Gentle

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- > Influence of organ motion on radiation-induced secondary cancer for VMAT and IMPT of prostate cancer
C. Stokkevåg (Norway), G. Engeseth, L. Hysing, K. Ytre-Hauge, L. Muren

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- > A dosimetric analysis of semi-automated knowledge-based VMAT planning for rectal cancer patients
F. Jiang (China), Y. Zhang, H. Yue, S. Li, Q. Hu, Y. Zhang, H. Wu

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- > 4D Energy-based minimisation in lung cancer
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- > Knowledge-based IMRT optimisation using a model trained with VMAT plans of other setup orientations
Y. Zhang (China), F. Jiang, S. Li, H. Yue, Q. Hu, H. Wu

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- > Single-click automatic radiotherapy treatment planning for breast, prostate and vertebrae
R. De Graaf (*The Netherlands*), J. Trinks, A. Duijn, J. Knegjens, D. Eekhout, R. Harmsen, A. Olszewska, G. Ret el, G. Wortel, S. V.d. Sanden, M. Buijter, C. Van Vliet-Vroegindeweyj, E. Damen
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- > mARC treatment planning in non-dedicated systems: two conversion approaches using IMRT and SmartArc
Y. Dzierma (*Germany*), N. Licht, I. Norton, F. Nuesken, C. R ube
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- > Spinal SBRT: improving plan quality using an existing database and a geometric parameter
L. Masi (*Italy*), R. Doro, I. Bonucci, S. Cipressi, V. Di Cataldo, I. Peruzzi, L. Livi
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- > Optimal dose prescription in Linac-based SBRT using VMAT: a ‘‘Pareto fronts’’ approach
S. Cilla (*Italy*), A. Ianiro, F. Deodato, M. Gabriella, C. Diges , P. Viola, M. Craus, M. Ferro, V. Picardi, M. Nuzzo, F. Labropoulos, V. Valentini, A.G. Morganti
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- > Volumetric modulated arc therapy optimization including dynamic collimator rotation
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- > Clinical validation of Automated Planning process in rectal cancer IMRT treatment
N. Dinapoli (*Italy*), G. Chiloiro, G. Mattiucci, L. Azario, M. Gambacorta, E. Placidi, S. Teodoli, L. Boldrini, C. Valentini, M. Balducci, V. Valentini
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- > Dose plan assessment of coplanar and non-coplanar beam angle optimization algorithms
T. Ventura (Portugal), H. Rocha, B.C. Ferreira, L. Khouri, J. Dias, M.C. Lopes

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- > Multicriteria optimisation for whole-pelvic VMAT planning in prostate patients
M. Buschmann (Austria), Y. Seppenwoolde, D. Georg

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- > Single-click generation of whole breast IMRT treatment plans
G. Wortel (The Netherlands), R. Harmsen, J. Trinks, A. Duijn, R. De Graaf, A. Scholten, C. Van Vliet-Vroegindeweij, E. Damen

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- > Evaluation of automatic treatment planning system: comparison with manual planning for liver SBRT.
E. Gallio (Italy), C. Fiandra, F.R. Giglioli, A. Girardi, T. Rasoarimalala, U. Ricardi, R. Ragano

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- > Clinical experiences with RapidPlan knowledge-based treatment planning
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- > Comparison between a conventional IMRT planning method and a new automated planning method.
M. Michel (France), C. Bertaut, J. Castelli, R. De Crevoisier, C. Lafond

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- > Rapidplan: 'knowledge-based' model with Tomotherapy plans
A. Botti (Italy), E. Cagni, R. Micera, S. Nicola, L. Orsingher, M. Orlandi, C. Iotti, L. Cozzi, M. Iori

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- > Fast, high quality, semi-automated and fully-automated prostate radiotherapy treatment planning
P.A. Wheeler (UK), M. Chu, O. Woodley, A. Paton, R. Maggs, D.G. Lewis, J. Staffurth, E. Spezi, A.E. Millin

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- > Optimal treatment parameters for left-sided whole breast cancer irradiation using TomoDirect
M. Scius, P. Meyer (France), C. Niederst, N. Dehaynin, D. Jarnet, M. Gantier, D. Karamanoukian

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- > HDR brachytherapy with hypofractionated EBRT for high risk prostate cancer
Y. Hashimoto (Japan), T. Akimoto, Y. Ishii, S. Kono, S. Izumi,
 K. Maebayashi, J. Iizuka, K. Tanabe, M. Kiyozuka, N. Mitsuhashi,
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M. Buwenge (Italy), S. Cilla, A. Guido, L. Giaccherini, G. Macchia,
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A. Clivio (Switzerland), J.J. Stelmes, C.N. Azinwi, G. Nicolini, S. Cima,
 E. Vanetti, K. Yordanov, F. Martucci, M. Valli, A. Richetti, S. Presilla,
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J. Demoucron, J.L. Dumas (France), A. Hadj Henni, E. Costa, M. Robilliard, A. Mazal

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- > Feasibility of an “off-target isocenter” technique for cranial intensity-modulated radiosurgery
J.F. Calvo-Ortega (Spain), S. Moragues-Femenia, M. Pozo-Massó, J. Casals-Farran

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- > DVH analysis automation in Tomotherapy
M.E. Perez Alvarez (Spain), J.C. Zapata Jiménez, C.B. Carrascosa Fernandez, J. Torres Donaire, J. Arjona Gutierrez, A. Gil Agudo

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- > Comparing of two different techniques for WBRT with SIB for patients with single brain metastasis
A. Ozen (Turkey), H. Ozden, O. Demirkaya, K. Duruer, N. Coruhlu, E. Metcalfe, D. Etiz

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- > Is VMAT better than field-in-field technique in simultaneous integrated boost for breast cancer?
H.H. Lee (Taiwan), C.H. Chen, Y.W. Hsieh, S.H. Hung, C.J. Huang

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- > VMAT planning and delivery for total marrow irradiation
S. Houghton (UK)

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- > Comparing different planning techniques for brain tumour radiotherapy
G. Cooke (UK), C. Golby, S. Erridge, S. Peoples, L. Seaton, T. Ronaldson, L. Wawrzyniak, L. McIntosh

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- > Comparison of VMAT for single fraction lung cancer radiotherapy with and without flattening filter
S. Barbiero (Italy), F. Matteucci, D. Fedele, M. Avanzo

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- > A tool for collision prediction in linac-based intracranial radiosurgery planning
T. Felefly (Lebanon), F. Azoury, C. El Khoury, J. Barouky, N. Farah, R. Sayah, N. Khater, D. Nehme Nasr, E. Nasr

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- > Comparison between intensity modulation techniques in prostate cancer treatment
S. Fondelli (Italy), S. Russo, I. Peruzzi, R. Barca, M. Esposito, B. Grilli Leonulli, L. Paoletti, F. Rossi, P. Alpi, A. Ghirelli, S. Pini, P. Bastiani

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- > Scalp-Sparing focal radiotherapy for gliomas using VMAT or Helical Tomotherapy: a feasibility study
S. Scoccianti (Italy), G. Simontacchi, C. Talamonti, A. Compagnucci, M. Casati, C. Arilli, D. Greto, F. Meacci, P. Bonomo, I. Desideri, G.A. Carta, M. Loi, L. Livi
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C.L. Kuo (Taiwan), C.C. Chen, L.C. Lin, S.W. Lee, S.Y. Ho
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- > Dose fall off patterns and the OAR effect - experience of Linac based frameless radiosurgery
A. Munshi (India), B. Sarkar, S. Roy, T. Ganesh, B.K. Mohanti
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 R. Zhang, W. Bai, Y. Cao (China), R. Li
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- > The reaserch of postoperative endometrial carcinoma delivered with CDR-CAS-IMAT on Varian 23IX
 R. Zhang, Y. Gao, X. Fan, W. Bai, Y. Cao (China)
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- > Impact of flatting filter free photon beam on Rapid-arc radiotherapy for gynecological malignancies
L. Kumar (India), V. Kishore, G. Yadav, K. Raman, M. Bhushan, T. Suresh, P. Kumar, M. Suhail, M. Pal
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- > Stereotactic body radiotherapy for early-stage lung cancer with flattening filter free beams
J. Zhang (China), X. Peng, D. Hong
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- > mARC vs. IMRT treatment of prostate and head-and-neck cancer with flat and FFF energies
Y. Dzierma (Germany), K. Bell, F. Nuesken, J. Palm, J. Fleckenstein, N. Licht, C. Rube
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- > Hippocampal-sparing radiotherapy for glioblastoma patients using the VMAT technique
J. Hofmaier (Germany), S. Kantz, M. Söhn, M. Alber, K. (2)Parodi, C. Belka, M. Niyazi
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- > Should VMAT be routinely applied to treat sacral bone metastases?
V. Soyfer (Israel), B. Corn, Y. Meir, N. Honig, N. Shtraus
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- > Total body irradiation with Tomotherapy
L. Simon (France), F. Izar, G. Moliner, M. Barides, R. Ferrand

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- > Sparing potential of scanned protons for the treatment of intramammary nodes in breast radiotherapy
A. Dasu (Sweden), A.M. Flejmer, A. Edvardsson, P. Witt Nyström

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- > Comparison of different techniques in lung SABR using VMAT with deep inspiration breath hold
N. Kayalilar (Turkey), Z. Ozen, B. Gunhan, F. Karakose, K. Yakar Ilbak, H. Sertel, R. Ibrahimov, A. Arifoglu, S. Gurdalli, M.U. Abacioglu

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- > VMAT in locally advanced lung cancer; does it add benefit?
M. Kamaleldin, M. AlDaly (Egypt), S. Talima

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- > A single centre experience of using helical tomotherapy (HT) for craniospinal irradiation (CSI)
M. Singhera (UK), T. Falco, K. Blythe, R. Begum, T. Greener, R. Beaney, N. Mikhael

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- > Treatment planning of stereotactic radiosurgery for single brain metastases: impact of leaf width
E. Lamers-Kuijper (The Netherlands), E. Van der Bijl, A. Van Mourik, C. Van Vliet-Vroegindeweij, E. Damen

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- > A treatment planning strategy for SBRT of multiple T1-2 lung tumors
A. Tijhuis (The Netherlands), E. Van der Bijl, J. Kneijens, C. Van Vliet-Vroegindeweij, E. Damen

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- > Breast and regional lymph nodes RT: V-MAT/RapidArc and Tomotherapy comparison
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- > Frameless radiosurgery in brain metastasis with Tomotherapy: a comparison toward dosimetric index
A. Ciarmatori (Italy), G. Guidi, A. Bruni, N. Maffei, C. Vecchi, M.G. Mistretta, P. Ceroni, S. Gaito, P. Giacobazzi, T. Costi
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- > Constant dose rate VMAT and step-and-shoot IMRT in head and neck cancer: a comparative plan analysis
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- > Can we increase the dose with particle therapy versus IMRT? A dosimetric study for sinonasal cancer
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A. Vasseur (France), C. Bertin, J.Y. Gosselin, B. Foulon

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- > New sliding window IMRT planning design for head and neck patients with dental prostheses.
M. Lopez Sanchez (Spain), M. Perez, V. Hernandez, J.A. Vera, M. Gonzalez, J.M. Artigues

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- > 10MV un-flattened photon beams in prostate and pelvic node VMAT SABR; is the high energy necessary?
N. Kanakavelu (UK), S.O. Osman, D.M. Irvine, C.A. Lyons, S. Jain, A.R. Hounsell, C.K. McGarry

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- > SRS treatment planning for multiple cranial metastasis with a single isocentre approach using VMAT
R. Bill (UK), L. Howard, M. Gilmore

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- > VMAT or IMRT- what is better solution in sparing bone marrow in WPRT of patients after prostatectomy
M. Poncyljusz, P.F. Kukulowicz, B. Czyzew (Poland), A. Jankowska

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- > Cardiac dose evaluation in left breast cancer radiotherapy: Direct and Helical Tomotherapy
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- > The usefulness of VMAT in patients irradiated to the chest wall after left-sided mastectomy
M. Spalek, P. Mężeński (Poland), J. Gałecki, E. Dąbrowska, A. Zawadzka, P. Kukulowicz

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- > Helical Tomotherapy for left-sided breast: dosimetric comparison to Volumetric-Modulated Arc Therapy
E. Ertan (Turkey), R. Tanriseven, O. Yazici, A.M. Kocer, M.B. Altundag

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- > Dosimetric comparison (VMAT and 3DCRT) in breast cancer with regional nodes and SIB of the tumor bed
A. Seguro (Spain), L. Díaz, G. Ruiz, R. García, M.D. De las Peñas, E. Amaya, M. Hernández, P. Samper, J.M. Jimenez
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- > Evaluation of different radiosurgical planning techniques using iPlan®
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- > Tomotherapy Dose Painting hypofractionated treatments on GBM based on DW-MRI: a feasibility study.
M. Orlandi (Italy), A. Botti, E. Cagni, L. Orsingher, R. Sghedoni, C. Patrizia, C. Iotti, M. Iori
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- > Re-irradiation of pelvic sidewall disease: comparing normalisation techniques for stereotactic RT
M. Llewelyn (UK), E. Wells, N. Bhuvu, A. Taylor
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- > Comparison of IMRT and VMAT plan quality for hypofractionated post-mastectomy chest wall irradiation
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- > Use of FFF beams for SBRT treatments: impact of the size of the PTV?
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- > To revise helical irradiation of the total skin HITS as completed-HITS in cutaneous lymphoma patient
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C. Fleming (Ireland), S. O'Keeffe, J. Armstrong, B. McClean
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- > Dose-volume analysis of genitourinary toxicity in 3-D conformal radiotherapy for prostate cancer
P. Bagala' (Italy), G. Ingrosso, M.D. Falco, S. Petrichella, M. D'andrea, M. Rago, A. Lancia, C. Bruni, E. Ponti, R. Santoni
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- > Hyper- versus hypofractionated radiotherapy in a radioresistant head and neck cancer model
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N. Maffei (Italy), G. Guidi, E. D'Angelo, B. Meduri, P. Ceroni, G. Mistretta, A. Ciarmatori, G. Gottardi, P. Giacobazzi, T. Costi EP-1715
- > Prospective electronic toxicity registration to audit NTCP models and dose constraints
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A. Gago-Arias (Chile), I. Espinoza, B. Sánchez-Nieto, J. Pardo-Montero EP-1717
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A. Belfatto (Italy), D.A. White, R.P. Mason, Z. Zhang, S. Stojadinovic, G. Baroni, P. Cerveri EP-1718
- > Radiobiology based head & neck cancer protocol (FAMOSO) combining accelerated RT and EGFr inhibitor
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- > Impact of contouring variability on tumour control and normal tissue toxicity in liver SBRT
M. Robinson (UK), D. Eaton, R. Patel, D. Holyoake, M. Hawkins EP-1720
- > Feature extraction from duodenal dose surface maps to predict toxicity in pancreatic chemoradiation
A. Witztum (UK), S. Warren, M. Partridge, M.A. Hawkins EP-1721
- > Simulation of the radiation response of a hypoxic prostate tumor in the rat
I. Liedtke-Grau, R.O. Floca, P. Peschke, I. Espinoza (Chile), C.P. Karger EP-1722
- > Radiobiological analysis of rib fracture incidence in lung SABR
A. Carver (UK), J. Uzan, C. Eswar, A. Pope, A. Haridass EP-1723

- > Model-based effect estimates reduce sample-size requirements in randomized trials of proton therapy
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- > Predictors of diarrhea after whole-pelvis post-prostatectomy radiotherapy
C. Sini (Italy), C. Fiorino, L. Perna, B. Noris Chiorda, V. Sacco, M. Pasetti, A. Chiara, R. Calandrino, N. Di Muzio, C. Cozzarini EP-1725
- > Biological modelling to identify proton therapy candidates in focal boosting of prostate tumours
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- > A decision support system for localised prostate cancer treated by external beam radiation therapy
S. Walsh (The Netherlands), M. Field, M. Barakat, L. Holloway, M. Bailey, M. Carolan, G. Goozee, G. Delaney, A. Miller, M. Sidhom, P. Lambin, D. Thwaites, A. Dekker EP-1727
- > Dose individualisation through biologically-based treatment planning for prostate cancer patients
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- > The impact of CBCT-imaging and verification time on prostate motion using 4D TPUS Clarity system
P.P.E. Pang (Singapore), K. Knight, M. Baird, H.S.A. Boo, M.Q.J. Loh, W.S.J. Chan, S.N. Aryani, K.L.J. Tuan EP-1729
- > Clinical evaluation of new approach for determining ITV target volume in NSCLC treated with 4D SABR
X. Li (China), Q.H. Deng, L.D. Zhang, B. Xia, Z.B. Wu, Y. Ren, J. Gu, Z.S. Zheng, S.L. Ma, G. Li EP-1730
- > Changes of the prostate motion errors in the intra-fraction early phase for prostate cancer patients
H. Tamamura (Japan), T. Kaneda, Y. Ogawa, M. Shibata, T. Kobayashi, A. Hirata EP-1731

- > Quantitative estimation of gamma passing rates from characteristics of respiratory motion
K. Tanaka (Japan), M. Nakamura, K. Fukumoto, T. Kosuga, M. Yanagawa, A. Miyai, S. Tachiiri, S. Otsu, K. Kuwabara

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- > Deep inspiration breath-hold technique using an Arduino
P. Gallego, J. Pérez-Alija (Spain), S. Olivares, S. Loscos, E. Ambroa, A. Pedro

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- > IGRT for prostate cancer: intrafraction variation analysis and CTV-PTV margin determination
C. Italia (Italy), R. La Rosa, P. Della Monica, S. Masciullo, O. Ceccarini, E. Brembilla, M. Camerlingo, M. Cardinali, F. De Osti, S. Gusmini, C. Riva, F. Romeo

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- > Impact of respiratory motion on breast tangential radiotherapy using the field-in-field technique
H. Tanaka (Japan), T. Yamaguchi, M. Kawaguchi, S. Okada, Y. Kajiuira, M. Matsuo

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- > The quantitative measurement of liver motion in CT during respiration
Y.L. Tsai (Taiwan), P.C. Yu, H.C. Chang, C.Y. Chang, P.W. Fu, C.W. Lin, Y.C. Chiu, S.N. Chi, C.J. Wu

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- > Intrafraction motion and ITV dose coverage in thoracic SBRT: preliminary analysis of 101 CBCT images
P. Antognoni (Italy), L. Pozzi, D.P. Doino, S. Gottardo, C. Mordacchini, M. Reso, F. Stucchi, C. Bianchi, R. Novario

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- > The impact of active breath control on IMN coverage in left sided post-mastectomy breast patients
A. Barry (Canada), K. Rock, C. Sole, M. Rahman, M. Pintilie, A. Fyles, C. Koch

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- > Deep inspiration breath hold with 'AlignRT' in 3D conformal mediastinal radiotherapy for lymphoma
J.L. Brady (UK), R. Begum, C. Hartill, A.G. Greener, N.G. Mikhaeel

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- > Application of virtual reality guide hypnosis in the control of respiration motion for radiotherapy
R. Li (China), N. Fu, J. Ouyang, Y. Mao, Y. Liu, S. Dang, J. Hu, J. Deng, S. Yu, Y. Zhu, Y. Chen, Y. Xie

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- > MRI assess hypnosis control respiratory motion applied to radiotherapy for lung cancer patients
R. Li (China), Z. Fan, L. Ding, W. Mei, X. Li, H. Chen, Q. Luo, N. Fu, J. Ouyang, Y. Mao, Y. Liu, S. Dang, J. Hu, J. Zhang, J. Deng, S. Yu, Y. Zhu, Y. Chen, Y. Xie
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- > The first clinical implementation of audiovisual biofeedback in liver cancer SBRT
S. Pollock (Australia), R. Tse, D. Martin, L. McLean, M. Pham, D. Martin, D. Tait, P. Estoesta, G. Whittington, J. Turley, C. Kearney, G. Cho, R. Hill, S. Pickard, P. Aston, K. Makhija, R. O'Brien, P. Keall
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- > Analysis of the deviation of lung tumour displacement caused by different breathing patterns
G. Hürtgen (Germany), S. Von Werder, C. Wilkmann, O. Winz, C. Schubert, N. Escobar-Corral, J. Klotz, C. Disselhorst-Klug, A. Stahl, M.J. Eble
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- > Evaluation of the clinical accuracy of the robotic respiratory tracking system
M. Inoue (Japan), J. Taguchi, K. Okawa, K. Inada, H. Shiomi, I. Koike, T. Murai, H. Iwata, M. Iwabuchi, M. Higurashi, K. Tatewaki, S. Ohta
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- > Radiotherapy in breast cancer with voluntary deep-inspiration breath-hold using BrainLab Exactrac
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- > Stereo/monoscopic motion tracking of the prostate using room-mounted x-ray image guidance
T. Stevens (Canada), D. Parsons, J. Robar
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- > Assessment of PTV margins accounting for prostate intrafraction motion in SBRT with online IGRT
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- > An experimental comparison of advanced respiratory motion management techniques
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- > Real-time 4D ultrasound tracking of liver and kidney targets for external-beam radiotherapy
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- > Monitoring of intra-fraction prostate motion with a new 4D ultrasound device
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- > Time-resolved analysis of Varian RPM-gated exposures on three versions of Truebeam linac
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- > A study of suitable conditions for stereotactic radiation therapy using VMAT for lung cancer
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- > Intrafraction setup variability for breast Helical Tomotherapy
R. Ricotti (Italy), D. Ciardo, G. Fattori, M.C. Leonardi, A. Morra, F. Pansini, R. Cambria, F. Cattani, C. Gianoli, M. Riboldi, G. Baroni, B.A. Jereczek-Fossa, R. Orecchia

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- > Visualization of respiratory and cardiac motion via TomoTherapy exit detector fluence
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- > Differential motion of adjacent lung tumours eligible for SBRT with a single isocentre
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- > Intra-fraction patient movements during SBRT: CBCT vs Surface Optical Markers
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- > Cyberknife Stereotactic Radiation Therapy for lung cancer: role of the LOT simulation.
I. Bossi Zanetti (Italy), A. Bergantin, A.S. Martinotti, I. Redaelli, P. Bonfanti, M. Invernizzi, A. Vai, L.C. Bianchi, G. Beltramo

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- > Treatment of moving targets with active scanning carbon ion beams
P. Fossati (Italy), M. Bonora, E. Ciurlia, M. Fiore, A. Iannalfi, B. Vischioni, V. Vitolo, A. Hasegawa, A. Mirandola, S. Molinelli, E. Mastella, D. Panizza, S. Russo, A. Pella, B. Tagaste, G. Fontana, M. Riboldi, A. Facchetti, M. Krengli, G. Baroni, M. Ciocca, F. Valvo, R. Orecchia EP-1759
- > Correlation and directional stability of principal component of respiratory motion in the lung
H. Hanazawa (Japan), Y. Matsuo, M. Nakamura, H. Tanabe, M. Takamiya, Y. Iizuka, K. Shibuya, T. Mizowaki, M. Kokubo, M. Hiraoka EP-1760
- > Assessment of motion mitigation and setup monitoring in gating treatments with accelerated particles
A. Pella (Italy), M. Seregni, S. Molinelli, P. Fossati, M. Riboldi, B. Tagaste, G. Fontana, M.R. Fiore, E. Ciurlia, A. Iannalfi, B. Vischioni, V. Vitolo, A. Mirandola, S. Russo, M. Ciocca, G. Baroni, F. Valvo, R. Orecchia EP-1761
- > Impact of physiological breathing motion for breast cancer radiotherapy proton beam scanning
A.M. Flejmer (Sweden), B. Chehrazi, D. Josefsson, I. Toma-Dasu, A. Dasu EP-1762
- > Experimental analysis of interplay effects in flattening filter free VMAT treatment techniques
T. Gauer (Germany), T. Sothmann, R. Werner EP-1763
- > Development and validation of a tool to evaluate prostate motion due to patient's breathing
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- > Monitoring of intra-fraction eye motion during proton radiotherapy of intraocular tumors
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M. Rico Oses (Spain), E. Martinez, B. Bermejo, E. Villafranca, P. Navarrete, M. Errasti, M. Barrado, M. Campo, I. Visus, S. Flamarique, L. Bragado, A. Manterola, A. Sola, S. Pellejero, G. Asin, M.A. Dominguez, F. Mañeru, F. Arias EP-1766

- > Deep Inspiration Breath Hold – a promising technique in patients with left-sided breast cancer.
P. Mezenski, J. Galecki, M. Spalek (Poland), A. Zawadzka, P. Kukołowicz EP-1767
- > The impact of interplay effect in SBRT lung treatments for 6MV and 6MV-FFF beams using EBT3 film.
D. Elezaj (Denmark), W. Ottosson, M. Sjölin EP-1768
- > Evaluation of the intra-fraction patient movement for SBRT treatments in our institution
D. Martínez (Spain), F. Candela, A. Camara, M.T. Garcia-Martinez EP-1769
- > Predictive modeling of respiratory lung motion using single-phase CT and finite-element analysis
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- > Biological consequences of dynamic dose interplay in VMAT SBRT lung treatments
M. Sjölin (Denmark), D. Elezaj, W. Ottosson, J.M. Edmund EP-1771
- > Comparison of dynamic 2D MRI with 4DCT lung tumor volumes for accurate real time imaging on linac-MR
S. Baker (Canada), E. Yip, J. Yun, K. Wachowicz, Z. Gabos, G. Fallone EP-1772
- > Dosimetric benefits and reproducibility of dibh technique guided by an optical system
F. Rossi, S. Russo (Italy), R. Barca, S. Fondelli, L. Paoletti, P. Alpi, B. Grilli Leonulli, M. Esposito, A. Ghirelli, S. Pini, P. Bastiani EP-1773
- > A novel phantom for dosimetric verification of gated SIB radiotherapy treatment plans
D. Soultan (USA), A. Yock, M. Cornell, J. Murphy, B. Gill, W. Song, V. Moiseenko, L. Cerviño EP-1774

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PHYSICS TRACK: INTER-FRACTION MOTION MANAGEMENT (EXCL. ADAPTIVE RADIOTHERAPY)

- > CBCT based prostate IGRT accuracy and PTV margins
C. Blay (France), A. Simon, E. Dardelet, R. Viard, D. Gibon, O. Acosta, P. Haigray, B. Dubray, R. De Crevoisier EP-1775

- > Assessment of setup uncertainties in modulated treatments for various tumour sites
E.S. Sandrini (Brazil), L.R. Fairbanks, S.M. Carvalho, L.R. Belatini, H.A. Salmon, G.A. Pavan, L.P. Ribeiro EP-1776
- > MRT investigation of prostate and lymph nodes movements: implications on planning target volume?
U. Björelund (Sweden) EP-1777
- > On the feasibility of performing a 3D-scan with your own smartphone
J. Pérez-Alija (Spain), P. Franco, E. Ambroa, S. Olivares, S. Loscos, A. Pedro EP-1778
- > Margins to compensate for deformity of the prostate/seminal vesicle in IGRT using fiducial-markers
Y. Hamamoto (Japan), N. Sodeoka, S. Tsuruoka, H. Inata, S. Nakayama, H. Takeda, T. Manabe EP-1779
- > Dosimetric impact of isocenter accuracy in CBCT-guided SRS treatment of vestibular schwannomas
J. Casals-Farran (Spain), J.F. Calvo-Ortega, S. Moragues-Femenia, M. Pozo-Massó, J. Fernández-Ibiza, E. Puertas-Calvo, C. Arias-Quiroz EP-1780
- > Dosimetric impact of CBCT isocenter misalignment on target dose coverage in cranial SRS
S. Moragues-Femenia (Spain), J.F. Calvo-Ortega, M. Pozo-Massó, J. Casals-Farran EP-1781
- > Effect of daily variation in rectal and bladder filling: an analysis of planned versus actual dose
A. Abhishek (India), T. Kataria, D. Gupta, T. Ghosh, T. Basu, S. Bisht, S. Goyal, M. Tayal, M. Ramu EP-1782
- > Translational and rotational set-up uncertainties in Head and Neck cancer treatments using CBCT
M. Di Biase (Italy), M. Trignani, G. Caponigro, A. Di Pilla, F. Perrotti, A. Augurio, S. Giancaterino, P. Bagalà, M.D. Falco, D. Genovesi EP-1783
- > Effect of body mass index on setup errors in patients treated with pelvic image guided radiotherapy
O. Ozdemir (Turkey), Z. Alicikus, T. Yagibasan, I.B. Gorken EP-1784
- > Comparison of setup errors and comfort levels of two immobilisation systems for head and neck cancer
P. Damodara Kumaran (India), S. John, R. Isiah, S. Das EP-1785

- > Rectal distension impact on prostate CBCT-based positioning assessed with 6 degrees of freedom couch
J. Charret (France), J. Salleron, M. Quivrin, F. Mazoyer, E. Martin, D. Peiffert, G. Créhange

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- > View of interest of automatic registration for CBCT localisation of head and neck cancer
C. Draulans (Belgium), J. Meyskens, K. Geboers, S. Gysbrechts, I. Scheelen, M. Martens

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- > Accurate and stable immobilisation with Lorca Marin masks for head and neck IMRT verified by IGRT
I. Prieto (Spain), D. Esteban, A. Ilundain, E. Marquez, J. Olivera, J. Luna, J. Vara, W. Vasquez, A. Perez

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- > Immobilization and dosimetric performance of a MRI compatible frame for Head & Neck patients
A. Perez-Rozos (Spain), I. Jerez Sainz, M. Toledo, M. Lobato Muñoz, J. Medina Carmona

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- > Assessment of Uterine Fundus Coverage with IGRT using daily CBCT in cervical cancer
Z. Ozen (Turkey), N. Kayalilar, A. Arifoglu, B. Günhan, R. Ibrahimov, F. Karaköse, S. Gurdalli, M.U. Abacioglu

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- > Improving patient posture reproducibility by using the predicted couch position and tight tolerances
L.J. Mesch (The Netherlands), W.J.M. De Kruijf

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- > Pre-fraction shift and intra-fraction drift of the prostate due to perineal ultrasound probe pressure
H. Ballhausen (Germany), F. Manapov, A. Kolberg, P.D. Thum, U. Ganswindt, C. Belka, M. Li

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- > Analysis of setup error in patients affected by oropharyngeal cancer treated with tomotherapy
P. Bonomo (Italy), L. Marrazzo, G. Carta, M.H. Baki, C. Talamonti, C. Arilli, F. Paiar, I. Desideri, G. Simontacchi, S. Scoccianti, D. Greto, S. Pallotta, L. Livi

EP-1793
- > Quantification of stomach movement using CBCT images
R. Carrington (UK), E. Spezi, B. Thomas, S. Gwynne, T. Crosby, J. Staffurth

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- > Evaluation of CBCT protocols in craniospinal RT for pediatric medulloblastoma: a preliminary study
E. Madon (Italy), A. Sardo, S. Sirgiovanni, V. Richetto, A. Mussano, U. Monetti, A. Urgesi EP-1795
- > Definition of thresholds to detect anatomy changes using Delivery Analysis software for Tomotherapy.
C. Dejean (France), M. Gautier, J. Feuillade, A. Mana EP-1796
- > Pelvic lymph node PTV margins in prostate IMRT
L. Duvergé (France), J. Castelli, S. Cadet, A. Simon, N. Jaksic, C. Lafond, P. Haigron, R. De Crevoisier EP-1797
- > Is there a true dosimetric improvement in lung SBRT using a 6-Degree of Freedom couch in IGRT era?
S. Menna (Italy), S. Chiesa, A.R. Alitto, L. Azario, G.C. Mattiucci, S. Teodoli, N. Dinapoli, L. De Filippo, M. Balducci, V. Valentini EP-1798
- > 3, 5 or 7 fractions with no image guidance in moderately hypofractionated prostate treatments
R. Bermúdez Luna (Spain), A. López Fernández, C. Rodríguez Rodríguez, M.V. De Torres Olombrada, T. García Cañibano EP-1799
- > Setup verification for breast cancer RT: manual and automatic match of EPID images compared to CBCT
E.L. Lorenzen (Denmark), K.L. Gottlieb, M. Nielsen EP-1800
- > Management of inter-fraction patient movement for SBRT treatments without an on-site 3D imaging
F. Candela-Rodríguez (Spain), D. Martínez-Rodríguez, A. Camara-Turbi, M.T. García-Martínez EP-1801
- > Mechanical sag patterns of the cone-beam CT imaging system of Elekta linear accelerators
S.J. Zimmermann (Denmark), P. Rowshanfarzad, M.A. Ebert, H.L. Riis EP-1802
- > An immobilization device-based procedure to predict couch coordinates and set-up tolerance levels
C. Camacho (Spain), E. Escudero, A. Lloret, C. Castro, M.D. Molina, Y. Mohadr, C. Quilis, J. Garcia-Miguel, A. Herreros, J. Saez EP-1803
- > A comparative analyse of prostate positioning guided by transperineal 3D ultrasound and cone beam CT
M. Li (Germany), H. Ballhausen, N.S. Hegemann, M. Reiner, S. Tritschler, F. Manapov, U. Ganswindt, C. Belka EP-1804

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PHYSICS TRACK: ADAPTIVE RADIOTHERAPY FOR INTER-FRACTION MOTION MANAGEMENT

- > Design and testing of the Rotating Whole-Body Linac-MRI Hybrid System
B.G. Fallone (Canada)

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- > A novel predictive approach to quantify parotids warping using SIS epidemic model
N. Maffei (Italy), G. Guidi, C. Vecchi, A. Ciarmatori, G. Mistretta, P. Ceroni, B. Meduri, P. Giacobazzi, T. Costi

EP-1806
- > Replanning effects in Tomotherapy treatment using dose accumulation and dose deformation strategies
A. Ciarmatori (Italy), G. Gabriele, N. Maffei, C. Vecchi, M.G. Mistretta, P. Ceroni, B. Meduri, P. Giacobazzi, T. Costi

EP-1807
- > A biological modeling based comparison of two strategies for adaptive radiotherapy of bladder cancer
L.J. Lutkenhaus (The Netherlands), A. Vestergaard, A. Bel, M. Hoyer, M.C.C.M. Hulshof, C.M. Van Leeuwen, O. Casares-Magaz, J.B. Petersen, J. Søndergaard, L.P. Muren

EP-1808
- > Intrafractional patient movement during an online adaptive replanning procedure for cranial SRS
M. Pozo-Massó (Spain), J.F. Calvo-Ortega, S. Moragues-Femenia, J. Casals-Farran

EP-1809
- > Dose uncertainties due to inter-fractional anatomical changes for carbon ion therapy
D. Panizza (Italy), S. Molinelli, A. Mirandola, G. Magro, S. Russo, E. Mastella, A. Mairani, P. Fossati, F. Valvo, R. Orecchia, M. Ciocca

EP-1810
- > Accuracy of dose calculations on CBCT scans of lung cancer patients using a vendor-specific approach
M. De Smet (The Netherlands), D. Schuring, S. Nijsten, F. Verhaegen

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- > Adaptive VMAT for cT1-2aN0M0 laryngeal cancer: potential risk of target volume over dosage
H.P. Bijl (The Netherlands), E.W. Korevaar, M. Gelderman, J.A. Langendijk, R.G.J. Kierkels

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- > Clinical implementation of an adaptive planning technique for lung VMAT radiotherapy
M. Naisbit (UK), G. Ward, J. Lilley

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- > Fractionated stereotactic radiotherapy using Gamma Knife Icon with adaptive re-planning (a-gkFSRT)
E. Stieler (Germany), F. Wenz, Y. Abo-Madyan, S. Mai

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- > Towards adaptive Tomotherapy: planning CT to MVCT deformable image registration for dose calculation
M. Branchini (Italy), S. Broggi, M.L. Belli, C. Fiorino, G.M. Cattaneo, L. Perna, R. Calandrino

EP-1815
- > A hybrid approach for head-neck cancer using on-line image guidance and off-line adaptive planning
R. Srivastava (India), P. Sharma, G. Saini, J. Sethi, A. Aggarwal, K. Goyal, M. P

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- > Dosimetric evaluation of new method for patient specific CBCT scan calibration
A. Fidanzio (Italy), S. Menna, F. Greco, A. Porcelli, G. Benecchi, L. Azario, A. Piermattei

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- > Using ROIs projected on EPID as a predictor of plan deterioration due to anatomical changes
O. Piron (Canada), N. Varfalvy, L. Archambault

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- > Plan of the day is the optimal approach to address organ motion for cervical cancer IMRT
R. Jadon, E. Spezi (UK), L. Hanna, N. Palaniappan, M. Evans, E. Hudson, J. Staffurth

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- > On the use of deformable image registration to evaluate the need to perform ART in head and neck cancer
P. Delgado-Tapia (Spain), M. Lizondo, A. Latorre-Musoll, N. Jornet, T. Eudaldo, P. Carrasco, A. Ruiz-Martinez, C. Cases, M. Ribas

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- > Adaptive external radiation therapy of cervical cancer with different uterine fundus positions
A.B.L. Marthinsen (Norway), F.C. Vidaurre, L. Rolstadaas, M. Eidem, S. Danielsen, M. Sundset, A.D. Wanderås

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- > limits and potentialities of the use of CBCT for dose calculation in adaptive radiotherapy
S. Meroni (Italy), V. Mongioj, T. Giandini, F. Bonfantini, A. Cavallo, M. Carrara, C. Stucchi, C. Cavatorta, E. Pignoli

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- > Characterization of kV- and MV-CBCT for personalized adaptive treatment therapy on RayStation TPS
A. Balazs (Norway), T. Torbjørn Furre, K. Karsten Eilertsen

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- > A new strategy approach for dose tracking and novel radiobiological models for adaptive radiotherapy
S. Strolin (Italy), E. Mezzenga, A. Sarnelli, S. Marzi, G. Sanguineti, L. Marucci, M. Benassi, L. Strigari

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- > Delivered dose determination in large organ deformations: pre-requirement for adaptive RT for LACC.
P.V. Nguyen, F. Lakosi, J. Hermesse, S. Nicolas, A. Cifor, M. Gooding, P.A. Coucke, T. Kadir, A. Gulyban (Belgium)

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PHYSICS TRACK: CT IMAGING FOR TREATMENT PREPARATION

- > An empirical post-reconstruction method for beam hardening correction in CT reconstruction
B. Yang (Hong Kong SAR China), H. Geng, W.W. Lam, K.Y. Cheung, S.K. Yu

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- > Dual energy computed Tomography based tissue characterisation for radiotherapy treatment planning
N. Tomic (Canada), H. Bekerat, F. DeBlois, J. Seuntjens, R. Forghani, S. Devic

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- > Liver SBRT: benefits from breath-triggered MRI in treatment position for accurate lesion contouring
L. Parent (France), A. Tournier, M. Rives, F. Izar, R. Aziza, Y. Sekkal, N. Morel, S. Ken

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- > Evaluation of metal artifact reduction (MAR) algorithm for patients with a bilateral hip implant
A. Morel (France), J. Molinier, L. Bedos, N. Aillères, D. Azria, P. Fenoglio

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- > Comparison of the MRI sequences in ideal fiducial marker-based radiotherapy for prostate cancer
O. Tanaka (Japan), M. Hattori, S. Hirose, T. Iida, T. Watanabe

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- > Inter-physician variability in delineation of clinical target volume of uterine cervical carcinoma
Y.S. Kim (Republic of Korea), J. Joo, E. Choi, S. LEE
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- > Improved 4DCT quality using true phase based triggers
P. Freislederer (Germany), H. Von Zimmermann, C. Heinz, K. Parodi, C. Belka
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- > Improved proton stopping power ratio estimation for a deformable 3D dosimeter using Dual Energy CT
Y.T. Taasti (Denmark), E.M. Høye, D.C. Hansen, L.P. Muren, J. Thygesen, P.S. Skyt, P. Balling, N. Bassler, C. Grau, G. Mierzwińska, M. Rydygier, J. Swakoń, P. Olko, J.B.B. Petersen
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- > Towards MRI-only radiotherapy planning: “patch-based method” for generation of brain pseudo-CT
S. Aouadi (Qatar), A. Vasic, S. Paloor, P. Petric, R.W. Hammoud, N. Al-Hammadi
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- > Dosimetric effect of metal artifact reduction function by three calculation algorithms for H&N
J. Park (Republic of Korea), S. Ju, J. Kim, J. Kim, C. Hong, D. Kim
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- > HU to electron density conversion with virtual monochromatic images generated by dual-energy CT
V. González-Pérez (Spain), A. Bartrés, E. Arana, V. Crispín, . De los Dolores, V. Campo, L. Oliver
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- > Impact on patient positioning using four CT datasets for image registration with CBCTs in lung SBRT
M. Oechsner (Germany), B. Chizzali, J.J. Wilkens, S.E. Combs, M.N. Duma
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- > Proton therapy planning for brain tumors using MRI-generated PseudoCT
J. Seco (USA), D. Izquierdo, C. Catana, G. Pileggi, J. Pursley, C. Speier, G. Sharp, C. Bert, C. Collins-Fekete, M.F. Spadea
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- > Exploiting planning CT data for accurate WEPL on CBCT reconstructions used in adaptive radiotherapy
J.H. Mason (UK), M.E. Davies, W.H. Nailon
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- > Motion artifacts in 4DCT: frequency and correlation with breathing pattern
M. Valenti (Italy), G. Scipioni, M. Parisotto, G. Mantello, F. Fenu, M. Cardinali, S. Maggi

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- > Dose comparison study for CT and MR-only prostate IMRT treatment planning
M. Maspero (The Netherlands), G. Schubert, M. Lindstrom, M. Hoesl, P.R. Seevinck, G.J. Meijer, M.A. Viergever, J.J.W. Lagendijk, C.A.T. Van den Berg

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- > A dosimetric analysis of MRI only treatment planning of the brain
E. Goodwin (UK), D. Bird, J. Lilley, R. Speight

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- > Synthetic CT calculation from low-field MRI: feasibility of an MRI-only workflow for glioblastoma RT
N. Nesvacil (Austria), H. Herrmann, E. Persson, C. Siversson, B. Knäusl, P. Kuess, L.E. Olsson, D. Georg, T. Nyholm

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- > Feasibility of generating mid-position CT from 4DCT using commercial deformable registration systems
M. Van Herk (UK), A. McWilliam, P. Whitehurst, C. Faivre-Finn

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- > Integration of 7T MRI into image-guided radiotherapy of glioblastoma: a feasibility study
I. Compter (The Netherlands), J. Peerlings, D.B.P. Eekers, A.A. Postma, D. Ivanov, C.J. Wiggins, P. Kubben, B. Küsters, P. Wesseling, L. Ackermans, O.E.M.G. Schijns, P. Lambin, A.L. Hoffmann

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- > Pseudo-CT generation from T1 and T2-weighted brain MRI based on a localised correlation approach
C. Speier (USA), G. Pileggi, D. Izquierdo, C. Catana, G. Sharp, C. Bert, J. Seco, M.F. Spadea

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- > Comparison of stopping power estimators from dual-energy computed tomography for protontherapy
G. Vilches-Freixas (France), J.M. Létang, S. Rit

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- > Dual-energy CT for range prediction in proton and ion therapy
C. Möhler (Germany), P. Wohlfahrt, C. Richter, O. Jäkel, S. Greilich

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- > Validation of Synthetic CTs for MR-only planning of brain cancer
C. Glide-Hurst (USA), R. Price, J.P. Kim, W. Zheng, I.J. Chetty

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PHYSICS TRACK: (QUANTITATIVE) FUNCTIONAL AND BIOLOGICAL IMAGING

- > The earlier evaluation of response to neoadjuvant chemoradiation therapy in sarcoma using DCE-MRI
Y. Kuang (USA), W. Xia, L. Chen, X. Gao EP-1850
- > Quantitative assessment of glucose metabolic rate within NSCLC histologies using dynamic 18F-FDG PET
T. Meijer (The Netherlands), D. Vriens, M. Looijen-Salamon, E. Visser, L.F. De Geus-Oei, J. Bussink EP-1851
- > Predictive role of FDG-PET/CT image-derived parameters in locally advanced oropharyngeal cancer
S. Broggi (Italy), I. Dell'Oca, C. Fiorino, E. Incerti, M. Picchio, M.L. Belli, P. Mapelli, A. Chiara, N. Di Muzio, G.M. Cattaneo, R. Calandrino EP-1852
- > Correlation between biomarkers derived from PET/CT and diffusion-weighted MRI in esophageal cancer
L. Goense (The Netherlands), P.S.N. Van Rossum, I.M. Lips, S.E. Heethuis, A.H.M.W. Van Ier, M.G.E.H. Lam, A.N. Kotte, M. Van Vulpen, R. Van Hillegersberg, J.P. Ruurda, G.J. Meijer EP-1853
- > Mammographic texture features for determination breast cancer molecular subtype
M. Arenas Prat (Spain), L. Díez-Presa, J. Torrents-Barrena, M. Arquez, C. Pallas, M. Gascón, M. Bonet, A. Latorre-Musoll, S. Sabater, D. Puig EP-1854
- > Computed Tomography lung texture changes due to radiotherapy for non-small cell lung cancer
J. Chalubinska-Fendler (Poland), W. Fendler, Ł. Karolczak, C. Chudobiński, J. Luniewska-Bury, A. Materka, J. Fijuth EP-1855
- > Predictive factors based on textural features – reliability of patient classification
T.L. Jacobsen (Denmark), U. Bernchou, T. Schytte, O. Hansen, C. Brink EP-1856
- > Multi-parametric MRI at 3.0 Tesla for the prediction of treatment response in rectal cancer
T. Pham (Australia), G. Liney, K. Wong, D. Roach, D. Moses, C. Henderson, M. Lee, R. Rai, M. Barton EP-1857

- > Variation of apparent diffusion coefficient in penile bulb after radiotherapy
P. Volonghi (Italy), E. Scalco, T. Rancati, A. Messina, E. Pignoli, A. Cicchetti, B. Avuzzi, D. Bosetti, R. Valdagni, G. Rizzo

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- > Tumor control assessment on cervical lymph nodes using texture analysis on CT and T2w-MRI images
E. Scalco (Italy), S. Marzi, A. Vidiri, G. Sanguineti, A. Farneti, G. Rizzo

EP-1859
- > PET/MR in radiation oncology – how to correct for attenuation caused by flat table top?
P. Andrzejewski (Austria), S. Witoszynskij, I. Rausch, M. Hacker, D. Georg, B. Knäusl

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- > Effect of respiratory motion on extracted textural features in tumour CT images
S. Alobaidli (UK), S. McQuaid, J. Scuffham, C. South, A. Nisbet, P. Evans

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- > Impact of 4DPET/CT on normal tissue sparing for SBRT of central lung tumors
S. Adebahr (Germany), D. Schuster, R. Wiehle, A. Chirindel, T. Schimek-Jasch, T. Fechter, M. Mix, A.L. Grosu, U. Nestle

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- > Radiomics in the CT perfusion maps – robustness study
M. Nesteruk (Switzerland), O. Riesterer, R. Bundschuh, P. Veit-Haibach, G. Studer, S. Stieb, S. Glatz, H. Hemmatazad, G. Huber, M. Pruschy, M. Guckenberger, S. Lang

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- > A 18FDG-PET texture analysis study on early stage Hodgkin lymphoma patient outcome prediction
G. Feliciani (Italy), A. Fama, P. Ciammella, F. Fioroni, M. Casali, B. Elisa, A. Podgornii, A. Versari, F. Merli, M. Iori

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- > DCE-CT lung tumour and aorta enhancement: is it an appropriate input vessel for kinetic modelling?
M. La Fontaine (The Netherlands), W. Van Elmpt, M. Kwint, J. Belderbos, J.J. Sonke

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- > Traceable calibration chain of PET/CT scanners for I-124
L. Joulaeizadeh (The Netherlands)

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- > Dosimetric comparison between jaw tracking and static jaw modes in volumetric-modulated arc therapy
Y.T. Hsieh (Taiwan), C.Y. Chou, B.S. Huang

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- > Standardization of amino-acid PET windowing for GTV definition in recurrent glioblastoma
O. Oehlke (Germany), *T. Papke, M. Mix, I. Götz, T. Schimek-Jasch, T. Spehl, P.T. Meyer, A.L. Grosu, U. Nestle* EP-1868
- > Metabolic response between primary tumor and lymph nodes in NSCLC patients during treatment course
N.M. Bruin (The Netherlands), *W.V. Vogel, J.B. Van de Kamer, J.L. Knegjens, J. Belderbos, J.J. Sonke* EP-1869
- > Improving tumor response assessment using DWMRI corrected by reversed gradient method and DCEMRI
A. Lopez Medina (Spain), *S. Reigosa, J. Del Olmo, D. Aramburu Nunez, F. Salvador, I. Landesa, J. Alba, M. Salgado, I. Nieto, V. Ochagavia, V. Muñoz* EP-1870
- > Optimization of gross tumour volume definition in lung-sparing VMAT for pleural mesothelioma
A. Botticella (Belgium), *G. Defraene, K. Nackaerts, C. Deroose, P. Naftoux, S. Peeters, D. De Ruysscher* EP-1871
- > Benchmarking texture analysis for PET in oesophageal cancer
B. Berthon (UK), *K. Foley, C. Marshall, R.T.H. Leijenaar, E. Spezi* EP-1872
- > Multimodality functional imaging for characterizing tumour volume
J. Del Olmo, S. Reigosa, A. Lopez Medina (Spain), F. Salvador, J. Nogueiras, J. Mañas, M. Arias, D. Fabri, B. Sanchez Nieto, M. Salgado EP-1873
- > Effective radiosensitivity maps of early tumour responsiveness based on repeated FDG PET scans
M. Lazzeroni (Sweden), *J. Uhrdin, J.J. Sonke, O. Hamming-Vrieze, A. Dasu, I. Toma-Dasu* EP-1874
- > Correlation between MRI-based hyper-perfused areas and tumor recurrence in high-grade gliomas
L. Chabert (France), *I. Belladjou, F. Poisson, F. Dhermain, V. Martin, S. Ammari, S. Vauclin, P. Pineau, I. Buvat, E. Deutsch, C. Robert* EP-1875
- > An image-based method to quantify biomechanical properties of the rectum in RT of prostate cancer
O. Casares-Magaz (Denmark), *M. Thor, L. Donghua, J.B. Frøkjær, P. Kræmer, K. Krogh, A.M. Drewes, H. Gregersen, V. Moiseenko, M. Høyer, L.P. Muren* EP-1876

- > Lung cancer textural analysis: to contrast or not to contrast?
A. Farchione, N. Dinapoli (Italy), R. Gatta, A.R. Larici, C. Masciocchi, A. Damiani, P. Franchi, A. Castelluccia, G. Mantini, L. Bonomo, V. Valentini

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- > Feasibility of gel phantoms in MRI for the assessment of kurtosis for prostate brachytherapy
Z.G. Portakal (Turkey), J.W. Phillips, C.E. Richards, E. Spezi, T. Perrett, D.G. Lewis, Z. Yegingil

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- > Difference between PET and RMI fusion on delineation variability for liver metastases
R. Tanguy (France), A. Gaumier, M.P. Sunyach, G. Beldjoudi

EP-1879
- > Validation of the use of digital camera for the prediction of skin toxicity in breast radiotherapy
M. Poli (Italy), S. Bresciani, A. Miranti, A. Di Dia, A. Maggio, M. Gatti, P. Gabriele, M. Stasi

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- > Diffusion MRI predicts radiotherapy response in brain metastases
F. Mahmood (Denmark), H.H. Johannesen, P. Geertsen, R.H. Hansen

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- > Brain connectivity changes in the presence of a glioblastoma
N. Tuovinen (Italy), M. Nunes, F. De Pasquale, C. Falletta Caravasso, E. Giudice, R. Miceli, G. Ingrosso, R. Santoni, K. Bühler, U. Sabatini

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- > Functional brain connectivity in glioblastoma patients pre- and post-radiotherapy
N. Tuovinen (Italy), F. De Pasquale, C. Falletta Caravasso, E. Giudice, R. Miceli, G. Ingrosso, R. Santoni, A. Laprie, U. Sabatini

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- > Voxel based topological PET SUV changes of bone marrow for LACC RT effect on hematological toxicity
A. Gulyban (Belgium), P.V. Nguyen, J. Hermesse, P.A. Coucke, F. Lakosi

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- > Novel algorithm for IVIM MRI in cancer patients: comparison to pCASL MRI
S. Stieb (Switzerland), T. Weiss, M. Wurnig, O. Riesterer, A. Boss, C. Rossi

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PHYSICS TRACK: IMAGES AND ANALYSES

- > The feasibility of atlas-based automatic segmentation of MRI for H&N radiotherapy planning
R. Speight (UK), K. Wardman, M. Gooding, R. Preswich

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- > Automated 3D MRI pancreas segmentation
K. Sheng (USA), S. Gou, P. Hu

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- > Accuracy and limitations of deformable image registration with SmartAdapt® in the thorax region
S. Sarudis (Sweden), A. Karlsson Hauer, D. Bibac, A. Bäck

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- > Quality assurance of image registration algorithms using synthetic CT/MRI/PET datasets
A. Perez-Rozos (Spain), M. Lobato Muñoz, I. Jerez Sainz, J. Medina Carmona

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- > Accurate organs at risk contour propagation in head and neck adaptive radiotherapy
T.T. Zhai (China), H.P. Bijl, J.A. Langendijk, R.J. Steenbakkers, C.L. Brouwer, H.J. Van der Laan-Boomsma, N.M. Sijtsema, R.G. Kierkels

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- > Determination of physical body outline in relation to outline visualisation in MRI for RT planning
S. Weiss (Germany), M. Helle, S. Renisch

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- > Using deformable image registration to integrate diagnostic MRI into the planning pathway for HNSCC
R. Chuter (UK), R. Prestwich, A. Scarsbrook, J. Sykes, D. Wilson, R. Speight

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- > Automatic contouring of soft organs for image-guided prostate radiotherapy
X. Cai (UK), C.B. Schönlieb, J. Lee, J. Scaife, H. Karl, M. Sutcliffe, M. Parker, N. Burnet

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- > Evaluation of a novel method for automatic segmentation of rectum on daily MVCT prostate images
M. Romanchikova (UK), D.I. Johnston, K. Harrison, M.P.F. Sutcliffe, J.E. Scaife, S.J. Thomas, N.G. Burnet

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- > Towards adaptive radiotherapy: a new registration-segmentation framework for focal prostate cancer
Y. Feng, K. Cheng, D. Montgomery, D. Welsh, J. Lawrence, L. Forrest, S. McLaughlin, D. Argyle, W. Nailon (UK)

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- > An atlas based auto-contouring technique incorporating interobserver variation
L. Bell (Australia), J. Dowling, E.M. Pogson, P. Metcalfe, L. Holloway

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- > Construction of a virtual T1-weighted 4D MRI: a feasibility study
C. Paganelli (Italy), G. Buizza, S. Cacciatore, P. Summers, M. Bellomi, G. Baroni, M. Riboldi

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- > A workflow for automatic QA of contour propagation for adaptive radiotherapy
W. Beasley (UK), A. McWilliam, N. Slevin, R. Mackay, M. Van Herk

EP-1898
- > Evaluation of SEMAC MRI metal artifact reduction for orthopaedic implants in radiotherapy planning
M.A. Schmidt (UK), R. Panek, R. Colgan, J. Hughes, A. Sohaib, F. Saran, J. Murray, J. Bernard, P. Ravell, M. Nittka, M.O. Leach, V.N. Hansen

EP-1899
- > Geometric accuracy of MRI for stereotactic radiosurgery planning of Acoustic Neuromas at 3 Tesla
M.A. Schmidt (UK), E. Wells, K. Davison, A. Riddell, L. Welsh, F. Saran

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- > Patient-specific deformable image registration quality assurance based on feature points
P.C. Park (USA), E. Koay, J. Yang, Y. Suh, P. Das, C. Crane, S. Beddar

EP-1901
- > Impact of image quality on DIR performances: results from a Multi-Institutional study
G. Loi (Italy), C. Fiandra, E. Lanzi, M. Fusella, L. Orlandini, F. Lucio, S. Strolin, L. Radici, E. Mezzenga, A. Roggio, L. Tana, E. Cagni, A. Savini, C. Garibaldi

EP-1902
- > Application of the enhanced ChainMail algorithm with inter-element rotation in adaptive radiotherapy
K. Bartelheimer (Germany), J. Merz, H. Teske, R. Bendl, K. Giske

EP-1903
- > Virtual CT for adaptive prostate radiotherapy based on CT-CBCT deformable image registration
F.R. Cassetta Junior (Italy), D. Ciardo, G. Fattori, M. Riboldi, R. Orecchia, B.A. Jereczek-Fossa, G. Baroni

EP-1904

- > Feasibility of automatic contour propagation of spinal bone metastases for online MR-Linac treatment
G.G. Sikkes (The Netherlands), L.T.C. Meijers, C.N. Nomden, A.N.T.J. Kotte, G.H. Bol, B. Van Asselen, E.N. De Groot, I.H. Kiekebosch, B.W. Raaymakers

EP-1905
- > Importance of true cord delineation in spine SBRT and rigid vs. deformable MRI-to-CT registration
L. Goddard, P. Brodin, A. Lee, K. Mani, W. Bodner, M. Garg, W.A. Tomé (USA)

EP-1906
- > Accuracy of software-assisted contour propagation from planning CT to cone-beam CT in head and neck
C. Hvid (Denmark), U. Elstrøm, K. Jensen, C. Grau

EP-1907
- > An image processing technique for simulating CT image sets for IGRT quality assurance
R. Franich (Australia), J.R. Supple, S. Siva, M.L. Taylor, T. Kron

EP-1908
- > Quantitative and qualitative assessment of thoracic CBCT image quality for multiple imaging systems
M. Williams (UK), L. Davies, S. Hall, P. Wheeler

EP-1909
- > Evaluation of diffusion-weighted imaging properties of a RT-specific positioning solution for PET/MR
R. Winter (Germany), S. Leibfarth, H. Schmidt, N. Schwenzer, D. Zips, D. Thorwarth

EP-1910

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PHYSICS TRACK: IMPLEMENTATION OF NEW TECHNOLOGY, TECHNIQUES, CLINICAL PROTOCOLS OR TRIALS (INCLUDING QA & AUDIT)

- > Evaluating the effect of Zinc Oxide nanoparticles doped with Gadolinium on dose enhancement factor
N. Banaee (Iran), H.A. Nedaie, A. Shirazi, A. Zirak, S. Sadjadi

EP-1911
- > The mechanism research of radio-dynamic treatment
Q.S. Zhang (China), Q.Y. Sun, G.P. Xiao, J. Zeng, L. Wang, L.L. Chen, C.M.C. Ma

EP-1912
- > National automated collection of standardised and population-based radiation therapy data in Sweden
T. Nyholm (Sweden), C. Olsson, T. Björk-Eriksson, G. Gagliardi, A. Gunnlaugsson, I. Kristensen, P. Nilsson, B. Zackrisson, A. Montelius

EP-1913

- > Nationwide audit of small fields output calculations in Poland
W. Bulski (Poland), K. Chelminski

EP-1914
- > Development of video based quality assurance system for the medical linear accelerator
J.S. Shin (Republic of Korea), Y. Han, E. Shin, H.C. Park, D.H. Choi, D.H. Lim

EP-1915
- > The IROC Houston QA Center's international activities outside North America
D. Followill (USA), S. Kry, A. Molineu, J. Lowenstein, P. Alvarez, P. Taylor, H. Nguyen, N. Hernandez, T. Nguyen, C. Lujano, T. Keith

EP-1916
- > Measurements of reactive oxygen species production induced by gold nanoparticles in radiotherapy
P. Cerello, L. Bocchini (Italy), A. Gobato, A. Attili, C. Cutaia, V. Ferrero, C. Pontremoli, L. Radici, M. Stasi, S. Visentin

EP-1917
- > Radiotherapy quality assurance in the TREC trial
N. Abbott (UK), G.W. Jones, P. Parsons, D.G. Lewis, E. Spezi, M. Kaur, L. Magill, R. Gray, S.P. Bach, D. Sebag-Montefiore

EP-1918
- > A cost-effective and fast end-to-end test for treatment accuracy evaluation
A. Wopereis (The Netherlands), K. Ishakoglu, E. Seravalli, J. Wolthaus

EP-1919
- > Harmonising the clinical trials QA group reports on phantom measurements around the globe
C. Clark (UK), C. Field, D. Followill, A. Haworth, S. Ishikura, J. Izewska, C. Hurkmans

EP-1920
- > Novalis certification of stereotactic radiation therapy programs: methodology and current status
J. Robar (Canada), T. Gevaert, M. Todorovic, T. Solberg

EP-1921
- > Comparing MLC positioning errors in Clinac and Truebeam Linacs by analysing log files
J. Olasolo Alonso (Spain), P. Gago, A. Vazquez, S. Pellejero, C. Eito, M. Aylas, P. Ensunza

EP-1922
- > Regular assessment of isocentre and positioning accuracy in image guided stereotactic radiotherapy
C. Heinz (Germany), S. Nepl, W. Haimerl, C. Belka, M. Reiner

EP-1923

- > Implementation of a safety checklist to improve quality and safety of physician plan review process
L. Fong de los Santos (USA), S. Park, K. Olivier

EP-1924
- > Online open source software to assess adverse events of patients undergoing radiochemotherapy
A.H. Thieme (Germany), D. Kaul, C. Stromberger, P. Ghadjar, V. Budach

EP-1925
- > Hybrid of cloud computing and workstations for radiotherapy planning
L. Zou (China), Z. Xie, W. Zhang, Y. Xie, L. Xing

EP-1926
- > Practical dosimetry solutions to enhance cell biology studies
E. Claridge Mackonis, L. Hammond, N. Suchowerska (Australia)

EP-1927
- > The Nano-X image-guided adaptive gantry-less linac: imaging and dosimetry under phantom rotation
L. Feain (Australia), C.C. Shieh, P. White, R. O'Brien, W. Counter, M. Jackson, S. Downes, P. Keall

EP-1928
- > Characterisation of a gridded electron gun in magnetic fields: implications for MRI-Linac therapy
B. Whelan (Australia), D. Constantin, R. Fahrig, P. Keall, L. Holloway, B. Oborn

EP-1929
- > Cancer patient experience of slow, single arc rotation to simplify radiation therapy delivery
B. Whelan (Australia), M. Welgampola, L. McGarvie, K. Makhija, I. Feain, L. Holloway, M. Berry, M. Barton, R. Turner, M. Jackson, P. Keall

EP-1930
- > Abstract withdrawn

EP-1931
- > Quality assurance in implementing a national dose escalation trial in NSCLC – report from NARLAL2
T.B. Nielsen (Denmark), C. Brink, D.S. Moeller, L. Hoffmann, C.M. Lutz, A.L. Appelt, M.D. Lund, M.S. Nielsen, W. Ottosson, A.A. Khalil, M.M. Knap, O. Hansen, T. Schytte

EP-1932
- > End-to-end dosimetric audit – comparison of TLD and lithium formate EPR dosimetry
E. Adolfsson (Sweden), P. Wesolowska, J. Izewska, E. Lund, M. Olsson, A. Carlsson Tedgren

EP-1933

- > Event reporting and learning in radiotherapy: evaluation over 4 years
M. Molla Armada (Spain), D. Garcia, M. Beltran, R. Verges, C. Pacheco, R. Angles, X. Fa, J. Saez, J.M. Lobo, C. Montiel, M.T. Bordas, J. Giralt

EP-1934
- > Impact of standardised codes of practice and related audit on radiotherapy dosimetry over 20 years
R. Thomas (UK), M. Bolt, G. Bass, A. Nisbet, C. Clark

EP-1935
- > Dose plan quality in the DBCG HYPO trial: an evaluation based on all treatment plans in the study
M. Thomsen (Denmark), M. Berg, S. Zimmermann, C. Lutz, S. Makocki, I. Jensen, M. Hjelstuen, S. Pensold, M.B. Jensen, B. Offersen

EP-1936
- > UK stereotactic ablative radiotherapy trials normal tissue dose constraints tolerance consensus
G.G. Hanna (UK), R. Patel, K. Aitken, S. Jain, K. Franks, N. Van As, A. Tree, S. Harrow, D.J. Eaton, F. McDonald, M. Ahmed, Saran, G. Webster, V. Khoo, D. Landau, M.A. Hawkins

EP-1937
- > Evaluation of pre-treatment verification for hyperthermia treatment plans
D. Marder (Switzerland), N. Brändli, G. VanStam, G. Lutters

EP-1938
- > An optimal grid block design for spatially fractionated radiation therapy
S. Gholami (Iran), H.A. Nedaie, F. Longo, M.R. Ay, A. S.Meigooni

EP-1939
- > Individual cases review in KROG-0806 study phase randomized trial for breast cancer patients
Y.B. Kim (Republic of Korea), J. Yoon, H. Han, H. Cha, J. Choi, M. Lee, C.O. Suh

EP-1940
- > Assessment of variation in planning benchmark case for ABC-07 trial of liver SBRT
D. Eaton (UK), M. Robinson, R. Patel, M. Hawkins

EP-1941
- > Initial experience with the Elekta Leksell Gamma Knife Icon system: commissioning, QA and workflow
S.W. Blake (UK), L. Winch, H. Appleby

EP-1942
- > Implications of gold nanoparticles used for dose enhancement in proton radiotherapy
R. Ahmad (UK), G. Royle, K. Ricketts

EP-1943

- > Lessons from the findings of 31 QUATRO audits in Europe
J. Izewska (Austria), M. Coffey, P. Scalliet, E. Zubizarreta, T. Santos,
 I. Vouldis, P. Dunscombe

EP-1944
- > Plan submission comparison for commissioning of spinal and nodal
 SABR for oligometastases
R. Patel (UK), T. Williams, J. Payne, D.J. Eaton, Y. Tsang, P. Ostler,
 N. Van As

EP-1945
- > Small animal irradiation by using Tomotherapy: dosimetric and
 preclinical results
A. Miranti (Italy), A. D'Ambrosio, G. Cattari, E. Garibaldi, S. Bresciani,
 P. Gabriele, M. Stasi

EP-1946
- > Evaluation of dosimetric properties of 3D printed flat bolus for
 external beam radiotherapy
R. Ricotti (Italy), A. Vavassori, R. Spoto, D. Ciardo, F. Pansini, A. Bazani,
 S. Noris, F. Cattani, R. Orecchia, B.A. Jerezcek-Fossa

EP-1947
- > Multicentre comparison for small field dosimetry using the new silicon
 diode RAZOR
C. Talamonti (Italy), M.D. Falco, L. Barone Tonghi, G. Benecchi,
 C. Carbonini, M. Casale, S. Clemente, R. Consorti, E. Di Castro,
 M. Esposito, C. Fiandra, C. Gasperi, C. Iervolino, S. Luxardo, C. Marino,
 E. Mones, C. Oliviero, M.C. Pressello, S. Riccardi, F. Rosica, L. Spiazzi,
 M. Stasi, L. Strigari, P. Mancosu, S. Russo

EP-1948
- > Developing a radiotherapy Quality Assurance programme as part of
 the HIPPO trial (NCT02147028)
D. Megias (UK), H. Yang, P. Sanghera, M. Phillips, L. Senthil, A. Jackson,
 G. Whitfield

EP-1949
- > Monte Carlo dose calculation of Viewray hybrid MRI-Co60
 radiotherapy system: a repeatability study
E. Placidi (Italy), S. Teodoli, N. Dinapoli, L. Boldrini, G.C. Mattiucci,
 V. Valentini, A. Piermattei, L. Azario

EP-1950
- > An international multi-institutional planning study for spine
 stereotactic body radiotherapy
T. Hiroshi (Japan), T. Furuya, S. Naoto, M. Nakayama, R. Mark,
 P. Jun Hao, I. Thibault, J. St-Hilaire, M. Lijun, D. Pimmaduwege,
 A. Sahgal, K. Katsuyuki

EP-1951

- > Monte-Carlo calculation of the secondary electron spectra inside and around gold nanoparticles
E. Gargioni (Germany), T. Dressel, H. Rabus, M.U. Bug

EP-1952

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PHYSICS TRACK: PROFESSIONAL AND EDUCATIONAL ISSUES

- > Patient Safety & Quality Control Working Group of the Spanish Society of Radiation Oncology.
J. Pardo-Masferrer (Spain), E. Del Cerro- Peñalver, E. Jiménez-Jiménez
- > Quality of Contouring in Radiation Oncology – Where to draw the line?
S. Vinod (Australia), M. Min, M. Jameson, L. Holloway
- > Teaching radiation interactions and dosimetry through Monte Carlo simulations: VisualMC
C. Baker (UK), A. Nahum
- > Twitter as a tool for radiotherapy medical education: The #radonc Journal Club
R. Simcock (UK), Z. Husain, M. Katz

EP-1953

EP-1954

EP-1955

EP-1956

■ Electronic Poster

BRACHYTHERAPY TRACK: BREAST

- > Partial breast irradiation with brachy- and teletherapy: comparative dosimetry of treatment plans
G. Stelczer (Hungary), C. Pesznyák, N. Mészáros, C. Polgár, T. Major
- > Treatment results of mammosite catheter in combination with whole breast irradiation
A. Gitt, H. Böse-Ribeiro, C. Nieder, P.G. Kup, H. Hermani, H. Bühler, H.Y. Ergönenç, D. Drüppel, I.A. Adamietz, K. Fakhrian (Germany)
- > Dosimetric consequences from minimal displacements in APBI brachytherapy using the SAVI applicator
S. Pella, C. Shereen (USA), D. Nicolae, H. Mikko, P. Janeil

EP-1957

EP-1958

EP-1959

■ INTERDISCIPLINARY

■ RADIOBIOLOGY

■ CLINICAL

■ BRACHYTHERAPY

■ PHYSICS

■ RTT

■ YOUNG

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BRACHYTHERAPY TRACK: GYNAECOLOGY

- > Exclusive brachytherapy of vaginal cuff: ethical considerations on quality of life after treatment
E. Piro (Italy), M.A. Martilotta, A. Massenzo, L. Marafioti

EP-1960
- > Factors influencing the risk of uterus perforation in high-dose rate tridimensional brachytherapy
L.G. Sapienza (Brazil), R.C. Camargo, I. Migowski, E.S. Sandrini, E. Anderson, F. Campana, G. Baiocchi, H.A. Salmon

EP-1961
- > CT-based optimisation of single source line HDR vaginal vault brachytherapy: a dosimetric study
I. Barillot, A. Ruffier-Loubiere (France), G. Bernadou

EP-1962
- > Dosimetric evaluation of image guided brachytherapy using tandem-ovoid and tandem- ring applicators
R. Rangarajan (India), S. Saravanan

EP-1963
- > Measurement of vaginal dose with image guided vaginal vault brachytherapy
L. Bleakley (UK), M. Zahra, L. White, W. Keough

EP-1964
- > Quantification of CT planning scans assessing OAR doses when delivering vaginal vault brachytherapy
L. White (UK), W. Keough, L. Bleakley, M. Zahra

EP-1965
- > Late toxicity outcomes of CT-based brachytherapy planning for locally advanced cervical cancer
J. Tang (Singapore), B.A. Choo, V. Koh, J. Low, J. Ng, A. Illancheran, Y. Lim, S.E. Lim, D. Tan

EP-1966
- > Preliminary results of a new brachytherapy schedule in postoperative endometrial carcinoma
A. Rovirosa (Spain), K. Holub, A. Herreros, C. Ascaso, J. Sánchez, G. Oses, J. Mansilla, J. Sola, A. Huguet, S. Garrida, J. Saez, C. Camacho, A. Camarasa, C. Quilis, M. Arenas, S. Sabater, M. Del Pino, J. Pahisa, A. Biete

EP-1967
- > Vaginal mucosal doses in the treatment of cervical cancer using HDR brachytherapy
W. Keough (UK), L. Bleakley, L. White, M. Zahra

EP-1968

- > High-dose-rate image-guided interstitial brachytherapy for recurrent cervical adenocarcinoma
K. Yoshida (Japan), H. Yamazaki, T. Takenaka, T. Kotsuma, K. Masui, Y. Uesugi, T. Shimbo, N. Yoshikawa, H. Yoshioka, Y. Yoshioka, E. Tanaka, Y. Narumi

EP-1969
- > Dose to organs at risk on CT versus MRI based brachytherapy for cervix cancer
K. Akbarov (Azerbaijan), I. Isayev, E. Guliyev, N. Aliyeva

EP-1970
- > Result of IGBT for cervical cancer using ring applicator with 'Siriraj Ring Cap' extension
P. Dankulchai (Thailand), Y. Chansilpa, J. Petsuksiri, L. Tuntipumiamorn, P. Nakkasair, C. Kakanaporn

EP-1971
- > Application of adaptive brachytherapy in the treatment of cervical cancer in accelerated mode
O. Kravets (Russian Federation), A.A. Fedyanina, O.V. Kozlov, M.A. Kuznetsov, A.V. Gavrilova, E.A. Romanova

EP-1972
- > MRI-guided brachytherapy and 3D/IMRT radiotherapy for cervical carcinoma. A prospective study
E. Villafranca Iturre (Spain), P. Navarrete Solano, A. Sola Galarza, J.C. Muruzábal, C. Sánchez, M. Rico, M. Errasti, M. Barrado, M. Campo, I. Visus

EP-1973
- > Application of the self-made applicator in brachytherapy for recurrent cervical cancer at vaginal
G. Cheng (China), Z. Zhao, M. He, D. Shi

EP-1974
- > 18F[FDG]PET guided brachytherapy for carcinoma of the uterine cervix
S. Meregalli (Italy), G. Gardani, S. Brenna

EP-1975
- > Concomitant radio-chemotherapy and brachytherapy for advanced cervical cancer: outcomes and toxicity
L. Pollara (Italy), F. Cuccia, V. Figlia, A. Palmeri, M. Gucci, N. Luca, D. Aiello, G. Evangelista, F. Sciumè

EP-1976
- > The importance of immobilization of gynecological applicators in high dose rate brachytherapy
S. Pella (USA), H. Mikko, D. Nicolae, C. Casey, C. Shereen, P. Janeil

EP-1977

- > Individualized approach to brachytherapy in cervical cancer patient: a case report study.
B.H. Zobec Logar (Slovenia), R. Hudej EP-1978
- > Adjuvant vaginal brachytherapy whitout external beam radiotherapy for endometrial cancer
P. Vargas Arrabal (Spain), R. Del Moral, I. Tovar, M. Zurita, R. Guerrero, I. Linares, J. Expósito, C. Prieto, S. Rodríguez, A. Ruiz EP-1979
- > Lower dose per fraction brachytherapy for patients with stage 1 endometrial cancer following surgery
J. Kim (Republic of Korea), K.J. Lee, K. Park, J. Lee, Y.J. Kim, W. Jung, S.C. Kim, H.S. Moon, W. Ju, Y.H. Kim EP-1980
- > Comparing MRI vs CT based applicator reconstruction and plng techniques for adaptive cervix cancer BT
F. Cheung (Hong Kong SAR China), A. Chang, T. Wong, F. Choi, M. Chan, I. Soong, A. Law, M. Lee, R. Yeung EP-1981

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BRACHYTHERAPY TRACK: HEAD AND NECK

- > Adjuvant brachytherapy of the lip cancer after surgical resection
A. Chyrek (Poland), G. Bielęda, A. Chichel EP-1982
- > Intensity modulated perioperative interstitial HDR brachytherapy for recurrent neck metastases
T. Soror (Germany), G. Kovács, I.U. Teudt, M. Ritter, C. Melchert, J.E. Meyer, B. Wollenberg EP-1983
- > Interstitial brachytherapy for the isolated lymph node metastasis from different solid cancers
M. He, G. Cheng (China), H. Zhao, Z. Zhao EP-1984

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BRACHYTHERAPY TRACK: PHYSICS

- > Proposal to improve commissioning of HDR brachytherapy with results from the first 2 SagiNova units
A.L. Palmer (UK), O. Hayman, A. Toussaint, O. Sauer EP-1985
- > New design of brachytherapy water phantom for absolute dosimetry
V. Stserbakov (Estonia) EP-1986

- > Feasibility study of patient specific QA system for HDR brachytherapy in cervical cancer
B. Lee (Republic of Korea), H. Kim, J. Sim, S. Ahn, J. Kim, Y. Han, S. Huh, D. Kim, M. Yoon

EP-1987
- > Calibration of ionisation well chambers at the Polish SSDL
W. Bulski (Poland), P. Ulkowski, A. Kowalczyk, E. Gruszczynska, K. Chelmiński

EP-1988
- > Dosimetry of the RIC-100 P32 brachytherapy source for the intraoperative treatment of spinal tumours
C. Deufel (USA), L. Courneyea, L. McLemore, I. Petersen

EP-1989
- > Comparison of dose optimisation methods for vaginal HDR brachytherapy with multichannel applicators
D. Cusumano (Italy), M. Carrara, M. Borroni, C. Tenconi, S. Grisotto, E. Mazzarella, A. Cerrotta, B. Pappalardi, C. Fallai, E. Pignoli

EP-1990
- > The dosimetric characteristics of GMS BT-125-1 I-125 radioactive seed
R. Yang (China)

EP-1991
- > Design and characterization of a new HDR brachytherapy Valencia applicator for larger skin lesions
J. Vijande (Spain), C. Candela-Juan, Y. Niatsetski, R. Van der Laarse, D. Granero, F. Ballester, J. Perez-calatayud

EP-1992
- > Dose evaluation at organs at risk in vaginal cuff brachytherapy
J. Wiercińska (Poland), R. Kabacińska, J. Terlikiewicz, A. Lebioda, A. Wronczewska, R. Makarewicz

EP-1993
- > On the dosimetric effect of heterogeneities and finite patient dimensions on Co-60 HDR brachytherapy
K. Zourari (Greece), E. Pantelis, P. Papagiannis

EP-1994
- > Potential OAR dose reduction with Fletcher shielded applicator and ACE algorithm for cervix brachy
C. Jones (UK), A. Taylor, M. Bidmead

EP-1995
- > Post IVD verification and recalibration of MOSkins using a certified low dose emitting Sr-90 source
A. Romanyukha (Australia), M. Carrara, G. Rossi, C. Tenconi, M. Borroni, E. Pignoli, D. Cutajar, M. Petasecca, M. Lerch, J. Bucci, G. Gambarini, A. Rosenfeld

EP-1996

- > Geometrical and source positioning accuracy verification of Varian HDR afterloader and applicators
C.L. Ong (The Netherlands), F. Janssen, L. Murrer, M. Unipan, A. Hoffmann EP-1997
- > Real-time dosimetry for HDR brachytherapy
L. Moutinho (Portugal), I.F.C. Castro, H. Freitas, K.A. Silva, P.J. Rachinhas, P.C.P.S. Simões, J.F.C.A. Veloso EP-1998

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BRACHYTHERAPY TRACK: PROSTATE

- > Comparison of intraoperatively linked and loose seed in prostate brachytherapy using sector analysis
N. Katayama (Japan), M. Takemoto, A. Takamoto, K. Hisazumi, H. Ihara, K. Katsui, S. Ebara, Y. Nasu, S. Kanazawa EP-1999
- > Template guided saturation biopsy of prostate: what is the optimal volume for brachytherapy?
S. Kanaev, S.N. Novikov (Russian Federation), R.V. Novikov, N.D. Ilin, E.A. Peskunov, M.Y. Gotovchikova EP-2000
- > Radical salvage brachytherapy (BT) for local recurrences after previous radiation treatment
S. Rodríguez Villalba (Spain), M. Santos Ortega, M. Depiaggio, L. De la Torre, J. Martinez, J. Canovas, J. Richart, A. Ota, J. Perez Calatayud EP-2001
- > Focal prostate brachytherapy: aspects of multi-modality registration and dosimetry feasibility
T. Brun (France), S. Ken, C. Popotte, J. Bachaud, P. Graff-Cailleaud, M. Delannes, B. Malavaud, D. Portalez, R. Aziza EP-2002
- > HDR brachytherapy in monotherapy of one fraction in patients with prostate cancer at low risk
A.C. Orduz Arenas (Spain), I. Jiménez García, R. Martínez Gutiérrez, P. Cucarella Beltran, S. Blanco Parajón, H.A. González Suárez EP-2003
- > Urethra dose homogeneity constraints in LDR prostate brachytherapy could diminish urinary morbidity
V. González-Pérez (Spain), J.L. Guinot, L. Oliver, A. Bartrés, V. Campo, V. De los Dolores, J.V. Ricós, A. Cano, V. Crispín EP-2004

- > Analysis of PSA kinetics after HDR brachytherapy in prostate cancer patients
W. Burchardt (Poland), J. Skowronek

EP-2005
- > IPSS time recovery in patients with prostate cancer after I-125 prostate brachytherapy
J. Olivera Vegas, W. Vásquez Rivas (Spain), A. Pérez Casas, I. Prieto Muñoz, J. Luna Tirado, L. López, C. Gonzalez-Enguita, C. Quicios, D. Esteban Moreno, A. Ilundain Idoate, M. García Castejon, M. Rincón Pérez, S. Gomez-Tejedor, J. Vara Santos, J. Penedo

EP-2006
- > A multicenter study of exclusive brachytherapy in younger patients with prostate cancer
E. Villafranca Iturre (Spain), P. Fernandez, R. Martínez-Monge, C. Gutierrez, A. Sola Galarza, E. Collado, I. Herruzo, A. Hervás, V. Muñoz, J. Muñoz

EP-2007
- > Robustness of the OARs recommendations made by GEC-ESTRO according to inter-observer variability
R. Chicas-Sett (Spain), J. Bautista-Ballesteros, F. Celada-Alvarez, S. Roldán, A. Torregrosa, J. Betancourt, J. Burgos, D. Farga, M. Perez, V. Carmona, A. Tormo, J. Benlloch, J. Perez-Calatayud

EP-2008
- > Feasibility and early toxicity of HDR alone in pts with recurrent/locally advanced prostate cancer
S.R. Bellia (Italy), P. Blanchard, L. Calmels, M. Edouard, P. Maroun, P. Chaurin, A. Bossi

EP-2009
- > Audit OAR comparing nationally-adopted prostate seed technique with GEC-ESTRO and ABS guidelines.
C. Sims (Ireland), P. Kelly

EP-2010
- > High-dose-rate brachytherapy combined with external beam radiotherapy for high-risk prostate cancer
S. Kariya (Japan), K. Kobayashi, I. Yamasaki, S. Ashida, K. Tamura, K. Inoue, T. Shuin, T. Yamagami

EP-2011
- > Are there differences in quality prostate indicators among 9-Gy vs 15-Gy HDR brachytherapy boost?
R. Tortosa, P. Soler (Spain), N. Chinillach, C. Ruiz, M. Vila, M. Sanchez

EP-2012
- > Single fraction HDR BT boost using ultrasound plng for prostate cancer: dosimetrics and toxicity
M. Barkati (Canada), O. Lauche, D. Taussky, C. Ménard, G. Delouya

EP-2013

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BRACHYTHERAPY TRACK: ANORECTAL

- > Retrospective analysis of interstitial brachytherapy in gynecological and digestive tumours
C. De la Pinta Alonso (Spain), E. Fernandez-Lizarbe, A. Montero Luis, A. Polo Rubio

EP-2014

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BRACHYTHERAPY TRACK: MISCELLANEOUS

- > Acute toxicity in HDR BT of skin cancer with very high viscosity addition silicone custom made molds
C. Sanz Freire (Spain), S. Pérez Echagüen, G.A. Ossola Lentati
- > A method to transform 2D LDR brachytherapy plans into contemporary 3D PDR dose distributions
E. Rodenburg (The Netherlands), J. Wilkes, J. Wiersma, R. Ordoñez Marmolejo, R. Dávila Fajardo, A. Bel, B. Pieters
- > High dose-rate endoluminal brachytherapy as a treatment of primary and recurrent esophageal cancer
N.H. Nicolay (Germany), J. Wagner, J. Oelmann-Avendano, J. Debus, P.E. Huber, K. Lindel
- > Treatment with high dose rate plesiotherapy and custom moulds in skin cancer. Long term results
L. Membrive (Spain), A. Reig, P. Foro, N. Rodriguez, J. Sanz, A. Ortiz, J. Quera, E. Fernandez-Velilla, O. Pera, R. Jimenez, N. Becerra, J. Flores, M. Algara
- > The safety and efficacy of external beam radiotherapy combined yttrium 90 SIRT
T.H. Wang (Taiwan), R.C. Lee, Y.W. Hu, P.I. Huang, C.S. Liu
- > Vertical type surface brachytherapy applicator improvement with a 3d printed dose compensation body
K. Buchauer (Switzerland), G. Henke, L. Plasswilm, J. Schiefer
- > Cosmesis and acute toxicity outcomes in skin lesions treated with High-Dose-Rate Brachytherapy.
H. Pérez-Montero (Spain), A. Campos, M.P. Crespo, B. Gil, A.M. Cabezas, T.C. Chávez, V. Rodríguez, N. Gascón, J.F. Pérez-Regadera

EP-2015

EP-2016

EP-2017

EP-2018

EP-2019

EP-2020

EP-2021

- > Compare EBRT and brachytherapy in the treatment children's vaginal rhabdomyosarcoma.

O. Kozlov (Russian Federation), I. Nechushkina, M. Nechushkin

EP-2022

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RADIOBIOLOGY TRACK: MOLECULAR TARGETED AGENTS AND RADIOTHERAPY

- > Radiation resistance induced immunity evasion by evoking PD-L1 expression

X. Gong (China), C. Zhou, X. Li, C. Zhao

EP-2023

- > Optimising hyperthermia induced radiosensitisation for treating HPV+ cervical tumours

A.L. Oei (The Netherlands), C.M. Van Leeuwen, R. Ten Cate, H.M. Rodermond, M.R. Buist, L.J.A. Stalpers, J. Crezee, H.P. Kok, J.P. Medema, N.A.P. Franken

EP-2024

- > The potential role of gold nanoparticles in proton beam radiosurgery for arteriovenous malformations

A. Nor (Ireland), M. Morris, F. Vernimmen, M. Shmatov

EP-2025

- > Effect of PARP-1 inhibition on human soft tissue sarcoma cells radiosensitivity

M. Mangoni (Italy), M. Sottili, C. Gerini, I. Meattini, I. Desideri, P. Bonomo, D. Greto, M. Loi, R. Capanna, G. Beltrami, D. Campanacci, L. Livi

EP-2026

- > Fractionated radiotherapy plus anti-angiogenic therapy in an orthotopic glioma transplantation model

V. Albrecht, J. Schuster, M. Proescholdt, D. Piehlmaier, K. Unger, C. Belka, M. Niyazi, K. Lauber (Germany)

EP-2027

- > Dependence of dose enhancement on the cluster morphology of Gold Nano Particle in radiation therapy

A. Sang Hee Ahn (Republic of Korea), C. Kwangzoo Chung, H. Youngyih Han, P. Hee Chul Park, C. Doo Ho Choi

EP-2028

- > Feasibility study of Fe₃O₄/TaOx nano particles as a radiosensitiser for radiation therapy

A. Sang Hee Ahn (Republic of Korea), L. Nohyun Lee, S. Sung Won Shin, C. Chang hoon Choi, H. Youngyih Han, P. Hee Chul Park, C. Doo Ho Choi

EP-2029

- > Gadolinium enhanced x-rays radiotherapy of murine adenocarcinoma Ca755
A. Lipengolts (Russian Federation), A. Cherepanov, V. Kulakov, I. Sheino, E. Grigorieva, V. Klimanov

EP-2030
- > Research on p53 and endostatin gene-radiotherapy induced by EGFR-targeted adenovirus vector in NSCLC
N. Wu, D. Han, G. Cheng (China), M. He

EP-2031
- > Radiotherapy gets improved by a nanotechnology based enzyme therapy in glioblastoma primary cultures
L. Fernández Fornos (Spain), V. Barberá, M. Saceda, P. García-Morales, J. Sanz, M. Fuentes, M. Ventero, P. Lucero-Calabuig, P. Dorado Rodríguez, D. Espósito, S. Miranda Labajos, A. Pomares Arias, M. Ruiz Sánchez, E. García Miragall

EP-2032
- > Combining Hedgehog inhibition with metformin to induce radiosensitization in prostate cancer cells
S. Isebaert (Belgium), A. Gonmissen, C. McKee, R. Muschel, K. Haustermans

EP-2033
- > Targeting hypoxic cancer cells by inhibition of checkpoint kinases ATR and CHK1
M. JOEL (Norway), G. Hasvold, R.G. Syljuåsen

EP-2034
- > Internalization of iron nanoparticles by macrophages for the improvement of glioma treatment
S. Reymond (France), P. Gimenez, R. Serduc, J. Arnaud, J.P. Kleman, V. Djonov, W. Graber, J.A. Laissue, J.K. Kim, S.J. Seo, J.L. Ravanat, H. Elleaume

EP-2035
- > A flow cytometry-based screen for compounds that increase S-phase damage after Wee1 inhibition
C. Naucke (Norway), P. Juzenas, S. Hauge, T. Stokke, R.G. Syljuåsen

EP-2036

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RADIOBIOLOGY TRACK: TUMOUR BIOLOGY AND MICROENVIRONMENT

- > Radiation-induced abscopal effect in normoxic and hypoxic conditions in lung adenocarcinoma
S. Tubin (Austria), M.A. Mansoor, S. Gupta

EP-2037

- > Manipulation of radiation-induced bystander effect in prostate adenocarcinoma
S. Tubin (Austria), M. Valeriani, M.F. Osti, G. Mimmiti, S. Bracci, S. Gerardo

EP-2038
- > The impact of surgical wound fluids after IORT on the breast cancer stem cell phenotype
W.M. Suchorska (Poland), K. Kulcenty, D. Murawa

EP-2039
- > Can pimonidazole be used to detect cycling hypoxia in tumours?
S. Böke (Germany), A. Yaromina, L. Koi, M. Baumann, D. Zips

EP-2040

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RADIOBIOLOGY TRACK: NORMAL TISSUE EFFECTS: PATHOGENESIS AND TREATMENT

- > Vitamin D protects HUVEC from RT-induced senescence and apoptosis by modulating MAPK/SirT1 axis
F. Marampon (Italy), G. Gravina, C. Festuccia, A. Colapietro, E. Di Cesare, V. Tombolini

EP-2041
- > Meta-analysis: can amifostine reduce chemoradiotherapy and radiotherapy toxicity in advanced NSCLC?
A. Devine (Ireland), L. Marignol

EP-2042
- > The ANDANTE project: a re-evaluation of the risk from scattered neutrons during proton therapy
A. Ottolenghi (Italy), V. Smyth, K. Trott

EP-2043
- > Radiation-induced lung fibrosis is associated with M2 interstitial and hybrid alveolar macrophages
L. Meziani (France), M. Mondini, B. Petit, M.C. Vozenin, E. Deutsch

EP-2044
- > In vivo monitoring of skin collagen state by multiphoton microscopy in the course of irradiation
N.D. Gladkova, V.V. Dudenkova, V.V. Elagin, K.V. Babak, A.V. Maslennikova (Russian Federation)

EP-2045
- > Modulation of radiation-induced oral mucositis (mouse) by dermatan sulfate
S. Gruber (Austria), E. Bozsaky, K. Frings, M. Arnold, V. Gernedl, S. Hetzendorfer, J. Mayer, S. Morava, S. Pfaffinger, P. Kuess, W. Dörr

EP-2046

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RADIOBIOLOGY TRACK: BIOMARKERS AND BIOLOGICAL IMAGING

- > 1H NMR based metabolomic approach to monitoring of the head and neck cancer treatment toxicity
L. Boguszewicz (Poland), A. Hajduk, J. Mrochem-Kwarciak, A. Skorupa, M. Ciszek, A. Heyda, M. Sokol, K. Skladowski

EP-2047
- > Serum cytokines as a predictive factor in hepatoma patients treated with radiotherapy
J. Seong (Republic of Korea), H. Cha, E.J. Lee

EP-2048
- > Diffusion MRI for following tumor modifications after neoadjuvant radiotherapy
F. Lallemand, N. Leroi, M. Bahri, E. Balteau, A. Noel, P. Coucke, P. Martinive (Belgium), A. Plenevaux

EP-2049
- > The assessment of fractal dimension with Dual Energy CT gives information on lung cancer biomarkers
V. González-Pérez (Spain), E. Arana, A. Bartrés, S. Oliver, B. Pellicer, J. Cruz, M. Barrios, L.A. Rubio

EP-2050
- > Hsp70 as a tumor specific biomarker in primary glioblastoma multiforme patients
F. Laemmer (Germany), C. Delbridge, K.A. Kessel, S. Stangl, J. Hesse, B. Meyer, J. Schlegel, D. Schilling, G. Multhoff, T.E. Schmid, S.E. Combs

EP-2051
- > Expression of molecular biomarkers in wound drainage fluids: a pilot study in head and neck cancer
M. Sottili (Italy), M. Mangoni, P. Bonomo, A. Deganello, A. Javarone, T. Gualtieri, I. Desideri, M. Loi, I. Meattini, F. Paiar, L. Livi

EP-2052
- > In-vivo imaging of rat leukocytes redistribution after pelvic irradiation
F. Benigni (Italy), C. Cozzarini, C. Sini, A. Spinelli, M. Venturini, L. Perani, V. Sacco, A. Viale, A. Capelli, A. Mondino, A. Briganti, M. Bellone, C. Fiorino, R. Calandrino, N. Di Muzio

EP-2053
- > Expression of DNA-PK in squamous cell lung cancer has gender differences and depends on smoking
J. Jaal, L. Mägi, T. Jõgi, M. Kase, A. Minajeva, V. Markus, T. Vooder, R. Roosipuu, J. Jaal (Estonia)

EP-2054

- > Fibro-inflammatory circulating proteins as biomarkers for response in locally advanced rectal cancer
P. Bulens (Belgium), A. Debucquoy, I. Joye, O. De Wever, A. Wolthuis, A. D'Hoore, E. Van Cutsem, V. Vandecaveye, X. Sagaert, C. Deroose, O. Gevaert, K. Haustermans

EP-2055
- > Preclinical investigation of hypoxia induced genes in different prostate cancer cell lines.
T. Wittenborn (Denmark), S. Nielsen, M. Busk, M.R. Horsman, J. Overgaard, J. Alsner, B.S. Sørensen

EP-2056
- > Radiotoxicity prediction by gene expression profiling when simulating therapy in matched fibroblasts
M.A. Schirmer (Germany), C.P.N. Mergler, L.H. Droege, M. Guhlich, J. Gaedcke, M. Ghadimi, M. Rave-Fränk

EP-2057
- > A novel multi-SNP model predictive of erectile dysfunction following radiotherapy in prostate cancer
L.H. Oh (USA), S. Kerns, H. Ostrer, B. Rosenstein, J.O. Deasy

EP-2058
- > Changes in hypoxia in serial F-MISO/PET-CT during chemoradiation in HNSCC
H. Kerti (Germany), A. Bunea, L. Majerus, M. Mix, C. Stoykow, N. Wiedenmann, P.T. Meyer, A.L. Grosu

EP-2059
- > Correlation of imaging data with known predictive/prognostic factors in Oropharyngeal cancer
J. Lynch (UK), M. Zhao, J. Scuffham, P. Evans, C. Clark, K. Wood, S. Whitaker, A. Nisbet

EP-2060
- > Over-expression of EGFR and/or cox-2 in locally advanced squamous cervical cancer (LASC)
M. Aylas (Spain), J. Pérez -Regadera Gómez

EP-2061

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RADIOBIOLOGY TRACK: CELLULAR RADIATION RESPONSE

- > c-Myc silencing impairs oncophenotype and radioresistance of Embriional Rhabdomyosarcoma Cell Lines.
E. Marampon (Italy), G. Gravina, C. Festuccia, C. Alessandro, E. Di Cesare, V. Tombolini

EP-2062

- > Apoptotic pathway activation in prostate neoplastic cells after 12 Gy-
IORT
*C. Pisani (Italy), N. Domagala, F. Copes, F. Mercalli, A. Volpe, D. Beldi,
F. Boccafoschi, R. Boldorini, M. Krengli*

EP-2063
- > Radiation induces metabolic switch to lactate production to support
tumour cell survival
K. Dittmann (Germany), C. Mayer, H.P. Rodemann

EP-2064
- > Effects of spontaneous γ H2AX level on radiation-induced response in
human somatic cells
*S. Vasilyev (Russian Federation), A.I. Velichevskaya, T.V. Vishnevskaya,
A.A. Skryabin, A.A. Belenko, A.A. Sleptsov, O.V. Gribova, Z.A. Startseva,
I.N. Lebedev*

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- > Phospholipase C ϵ as a biomarker of prostate cancer radioresistance
A. Tyutyunnykova (Germany), G. Telegeev, A. Dubrovska

EP-2066
- > The adhesion of tumor cells to endothelial cells is increased by photon
irradiation
*H. Bühler, P. Nguemgo-Kouam (Germany), A. Kochanneck, B. Priesch,
H. Hermani, K. Fakhrian, I.A. Adamietz*

EP-2067
- > Effect of a 0.2 T magnetic field during radiation on DNA damage and
repair in prostate cancer cells
*S. Baker (Canada), Z. Jin, A. Ghila, B. Warkentin, M. Hendzel, G. Fallone,
R. Pearcey*

EP-2068
- > CDC73 deficiency: a syndrome with multiple tumours is predicted to
show excessive radiosensitivity
R. Lewis (UK), E.C. Bourton, C.N. Parris, P.N. Plowman

EP-2069
- > Cell cycle analysis of γ -H2AX in irradiated normal or DNA-defective
cells with image flow cytometry
R. Lewis (UK), P.N. Plowman, C.N. Parris

EP-2070

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**RADIOBIOLOGY TRACK: RADIOBIOLOGY OF PROTONS
AND HEAVY IONS**

- > Mitophagy and Apoptosis: mitochondrial responses to carbon ion
radiation in tumor cells
X. Jin (China), X. Zheng, F. Li, Q. Li

EP-2071

- > Spatiotemporal dynamics of DNA damage in cells exposed to mixed beams of ionising radiation
B. Brzozowska (Sweden), A. Sollazzo, L. Cheng, L. Lundholm, A. Wojcik

EP-2072
- > Angio/lymphangiogenic, inflammatory and immune responses in head and neck cancer: proton vs photon
A. Claren (France), M. Plesu, J. Doyen, J. Feuillade, M. Dufies, S. Giulano, J. Hérault, G. Pagès

EP-2073

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RTT TRACK: STRATEGIES FOR TREATMENT PLANNING

- > The comparison of properties for radiotherapy with flattening filter-free and flattening filter beam
J.H. Gu (Republic of Korea), H.S. Won, J.W. Hong, N.J. Chang, J.H. Park

EP-2074
- > Evaluation of conventional versus IMRT based Prophylactic Cranial Irradiation treatment planning
E.H. Thøgersen (Denmark), A.I.S. Holm

EP-2075
- > Stereotactic body radiation therapy using Tomotherapy for refractory metastatic bone pain: case study
B. Bosco (Australia), A. Fong

EP-2076
- > A decision protocol to propose proton versus photon radiotherapy: in silico comparison
A. Chaikh (France), J. Balosso

EP-2077
- > PROSPECT: Phase 2 rescanning of seromas in patients to evaluate CTV reduction in breast cancer
G. Smith (UK), P. Robson, H. Probst

EP-2078
- > IMRT vs. dynamic conformal arc radiation therapy for stereotactic spinal radiotherapy
V. Santos (Portugal)

EP-2079
- > Redefining the possible: planning multiple complex head lesions using non-coplanar VMAT arcs
V. Guy (New Zealand), R. Sims, A. Falkov

EP-2080
- > Impact of baseline shifts on 4D cone-beam CT images using a 4D phantom driven by lung tumor motions
H. Moriwaki (Japan), K. Shiraiishi, A. Sakumi, T. Ikeda, W. Shimizu, K. Yoda

EP-2081

- > Static beam tomotherapy (TD) as an optimisation method in whole breast radiation therapy (WBRT)
M. Squires (Australia), S. Cheers, A. Fong, B. Archibald-Heeren, Y. Hu, A.Y.M. Teh

EP-2082
- > Utilising flattening filter free (FFF) beams to reduce treatment delivery times for breast patients
M. Le Mottee, A. Michalski, R. David, C. Lee, A. Windsor, B. Done (Australia)

EP-2083
- > Risk assessment of secondary cancer after craniospinal radiotherapy in childhood medulloblastoma
F.M. Giugliano (Italy), M. Mascarin, L. Iadanza, E. Coassin, A. Drigo, M.G. Trovò

EP-2084
- > Breast irradiation: Is the Isocenter fix? Results of a quality control study.
L. Lvovich (Israel), S. Daniel, A. Dror-Bakalo, R. Ben Yosef, E. Sabah, I. Atnilov

EP-2085
- > Advantages of deep inspiration breath-hold (DIBH) in left sided breast cancer using 3D-CRT
A. Kalmár (Hungary), N. Mészáros, G. Stelczer, C. Polgár

EP-2086
- > Simultaneous integrated boost bilateral breast cancer RT with helical IMRT: how to manage it?
J.L. Soares Rodrigues (Switzerland)

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RTT TRACK: ADDITIONAL TOOLS FOR CONTOURING

- > CT and MRI fusion to minimize contouring uncertainties in Stereotactic Radiosurgery (SRS) planning
L. Payanova (Bulgaria), R. Georgiev, R. Lazarov, Z. Spasova, V. Ivanov, L. Iliev, P. Tsenov, A. Antonova, T. Georgieva, S. Georgieva, D. Avgerinova

EP-2088
- > Comparison of target volumes for lower gastro-intestinal tumours using PET-CT and PET-MR images
J. Heywood (UK), M. Chiu, I. Kayani, L. Allington, R. Bodey, G. Blackman

EP-2089

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RTT TRACK: HEAD AND NECK REDUCTION OF MARGINS AND SIDE EFFECT

- > Accurate and stable immobilisation with Lorca Marin masks for head and neck IMRT treatment
A. Ilundain (Spain), I. Prieto, E. Márquez, D. Esteban, W. Vásquez, A. Pérez
- > Establishment of dose reference levels (DRLs) for CT of the head and neck in radiation therapy
C. Clerkin (Ireland), S. Brennan, L. Mullaney
- > Impact of treatment volumes in loco-regional failure of oral cancer in patients treated with IMRT
D. Delishaj (Italy), S. Ursino, E. Lombardo, L.R. Fatigante, M. Cantarella, G. Coraggio, F. Matteucci, S. Montrone, M.G. Fabrini

EP-2090

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RTT TRACK: ADAPTIVE TREATMENTS IN THE PELVIC REGION

- > Drinking instructions does not significantly influence inter-fraction bladder volume stability
M. Berg (Denmark), K. Thellesen, H. Jensen, L.M. Nielsen, H. Wasilevska, L. Wee
- > Can Radiation Oncologist delegate to Therapist the kV setup control in patients with pelvic cancers?
V. Frascino, M. Ferro (Italy), A. Alitto, A. Castelluccia, A. Petrone, G. Nicolini, S. Teodoli, G. Mattiucci, G. Mantini, M. Gambacorta, S. Chiesa, F. Deodato, L. Azario, S. Luzi, V. Valentini, M. Balducci
- > A retrospective evaluation of the feasibility of automatic prostate matching in IGRT
Z. Campbell (Ireland), B. O'Neill, L. O'Sullivan, M. Keaveney, L. Mullaney
- > Risk of rectal bleeding in patients with prostate cancer treated with RT on anticoagulant therapy
B. Shima (Italy), M.T. Martinetti, M. Carnevale, D. Musio, R. Lisi, V. Tombolini

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- > Patient friendly compression-belt settings in liver stereotactic radiotherapy
A.S. Bouwhuis-Scholten (The Netherlands), E.B. Van Dieren, S. Koch, H. Piersma, D. Woutersen

EP-2097
- > Use of a bladder minimum contour for prostate treatment planning to increase comfort and efficiency
C. Evans (UK), E. Crees, G. Kidane, M. Brown, M. Campbell, S. Gibbs, K. Tarver

EP-2098
- > Influence of anxiety on reproducibility of cancer patients (pts) repositioning during pelvic RT
E. Sierko (Poland), R. Maksim, J. Czauderna, T. Filipowski, M. Wojtukiewicz

EP-2099
- > Effectiveness of the manual correction during positioning patients with prostate cancer.
T. Piotrowski (Poland), K. Kaczmarek, A. Jodda, B. Bąk, A. Ryczkowski

EP-2100

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RTT TRACK: OTHER TOPICS FOR RTTS

- > Inverting a teaching practice
D. Montgomerie (New Zealand), B. Mudie

EP-2101
- > “We are all here for the patient” exploring the process of interprofessional learning
K. Coleman (New Zealand), B. Darlow, E. McKinlay, L. Beckingsale, S. Donovan, P. Gallagher, B. Gray, H. Nesor, M. Perry, S. Pullon

EP-2102
- > Margin assessment for feline and canine radiotherapy using a custom cranial immobilisation device
J. Sharpe (Switzerland), A. Tini, I. Minneken, C. Winter, V. Meier, C. Rohrer Bley

EP-2103
- > Waiting times for IMRT as a quality indicator: a study from a tertiary hospital in Saudi Arabia
Z. Mulla (Saudi Arabia), M.E. El Sayed, S.M. Soaida, A. AlHebshi, M. Bayoumy, A.H. Mohammed Khasim

EP-2104
- > The helpful rays a children’s book about cancer and radiotherapy explained in a non-intimidating way
K. Farstad (Norway)

EP-2105

- > Structuring a database to evaluate haematological toxicity in post-prostatectomy IMRT patients
V. Sacco (Italy), G. Salvadori, A. Sbalchiero, A. Viale, A. Soccio, M. Martulano, R. Bin, S. Selli, A. De Leonardis, D. Parutto, A. Capelli, A. Tavilla, L. Longoni, L. Palumbo, F. Baratto, N. Barricella, C. Fiordelisi, C. Cozzarini, N. Di Muzio

EP-2106
- > Work satisfaction and motivation of radiation therapists. A qualitative study
P.G. Kup, J.A. Rubin, I.A. Adamietz, K. Fakhrian (Germany)

EP-2107
- > Gaps in Radiotherapy: What can we do to improve it?
R. Jimenez, N. Becerra, N. Rodriguez, M. Algara (Spain)

EP-2108

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RTT TRACK: POSITION VERIFICATION

- > Novel verification technique for craniospinal irradiation with an image plate in the supine position
S.K. Ahn (Republic of Korea), S.K. Lee, J.H. Cho, C.O. Suh

EP-2109
- > A study of prostatic calculi: in patients receiving radical radiotherapy for prostate cancer
A. O'Neill (UK), C.A. Lyons, S. Jain, A.R. Hounsell, J.M. O'Sullivan

EP-2110
- > Inter-observer variability in stereotactic IGRT with CBCT: is a CTV-PTV margin needed?
M. Massacesi (Italy), V. Masiello, M. Ferro, V. Frascino, S. Manfreda, M. Antonelli, S. Chiesa, A. Martino, F. Greco, B. Fionda, A. Fidanzio, G. Mattiucci, L. Azario, S. Luzi, V. Valentini, M. Balducci

EP-2111
- > Intrafraction setup errors in single fraction stereotactic radiosurgery with Elekta Fraxion system
W. Vásquez Rivas (Spain), J. Luna Tirado, M. Rincón Pérez, D. Esteban Moreno, A. Ilundain Idoate, A. Pérez Casas, M. García-Castejón, J. Olivera Vegas, I. Prieto Muñoz, J. Vara Santos

EP-2112
- > Clinical implementation of an optical surface monitoring system(OSMS®, Varian) in breast irradiation
A. Tini (Switzerland), I. Pytko, S. Lang, C. Winter, M. Guckenberger, C. Linsenmeier

EP-2113

- > 3D-Transabdominal Ultrasound and ConeBeam-CT: comparison of prostate positioning
A. Boschetti (Italy), S. Bartoncini, C. Fiandra, A. Guarneri, C. Cavallin, F. Arcadipane, E. Trino, M. Levis, R. Ragona, U. Ricardi EP-2114
- > Breast radiotherapy: comparison of set up error using All In One system and dedicated breast board
V. Manestar (Croatia), V. Karadza EP-2115
- > Optimization of whole breast irradiation setup: comparison between two different positioning systems
E. Sanfilippo, C. Galeotti, P. Cornacchione, Y. Wandael, A. Nacca, M. Morroni, B. Onorati, D. Greto, P. Bonomo, N. Groccia, R. D'Angelillo, S. Ramella, I. Meattini (Italy), L. Livi EP-2116
- > Is rotational shifts necessary in SBRT? A geometric analysis using a 6-degree of freedom(6-DoF)couch.
A.R. Alitto (Italy), S. Chiesa, S. Menna, L. Azario, M. Massaccesi, F. Greco, M. Ferro, V. Frascino, M. Balducci, V. Valentini EP-2117
- > CBCT in stereotactic body radiation therapy for lung tumors: manual matching versus auto-matching
M. Orlando, Y. Wandael, P. Bonomo, C. Galeotti, F. Cascino, L. Cecconi, D. Greto, I. Meattini (Italy), S. Pallotta, L. Livi EP-2118
- > A clinical investigation of optimal CBCT image matching for non-SABR radical lung cancer patients
L. Malaspina (UK), A. Baker, C. Baker, A. Pope, M. Warren EP-2119



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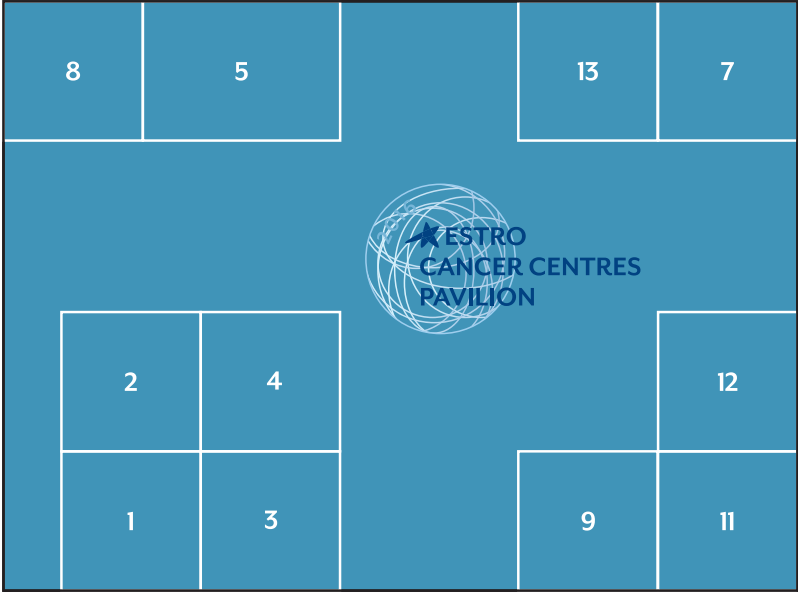
Every day, from 29 April 19:30 at the welcome reception to 2 May included

From 9:30 to 17:00 (Exhibition opening times)

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VU Medical Center	6700-1
Greater Poland Cancer Centre (Wielkopolskie Centrum Onkologii)	6700-4
University Medical Center Utrecht	6700-5
Istituto del Radio - University of Brescia	6700-9
Affidea BV	6700-2
Medical University of Vienna/AKH Vienna	6700-11
Gemelli ART - Policlinico Universitario "Agostino Gemelli"	6700-3
University of Florence – Careggi Hospital	6700-12
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FLOORPLAN (AREA 6700)



Exhibition floorplan

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COMPANY AWARDS OVERVIEW

★ GEC-ESTRO BEST JUNIOR PRESENTATION - SPONSORED BY ELEKTA BRACHYTHERAPY

Adaptive cone-beam CT planning improves progression-free survival for I-125 prostate brachytherapy

Daan Smit Duijzentkunst (The Netherlands)

Saturday 30 April 2016 from 11:35-11:45

★ ESTRO- ELEKTA BRACHYTHERAPY AWARD

Electromagnetic tracking for error detection in interstitial brachytherapy

Christoph Bert (Germany)

Sunday 1 May 2016 from 10:45-10:55

★ ESTRO-VARIAN AWARD

Perfusion SPECT can quantify radiation-induced changes in the lung after IMRT for NSCLC

Katherina Farr (Denmark)

Sunday 1 May 2016 from 17:40-17:50

★ ESTRO-ACCURAY AWARD

A novel concept to tumor targeting: Inverse dose-painting or targeting the “Low uptake drug volume”

Ala Yaromina (The Netherlands)

Sunday 1 May 2016 from 17:50-18:00

GEC-ESTRO BEST JUNIOR PRESENTATION SPONSORED BY ELEKTA BRACHYTHERAPY



Daan Smit
Duijzentkunst

★ DAAN SMIT DUIJZENTKUNST

*University Medical Center Utrecht
Utrecht, The Netherlands*

Son of an occupational doctor and a nursing home doctor, Daan Smit Duijzentkunst studied Medicine at Utrecht University. For his final rotation, he obtained a research internship at the department of Radiotherapy of the University Medical Center Utrecht. Under the auspices of and in collaboration with Max Peters, MD PhD, the focus of his work was on prostate cancer treatment, both in the primary and salvage setting. After graduation, he started working as a PhD student at the department of Nuclear Medicine at the Erasmus Medical Center Rotterdam. His current research is on the treatment of neuroendocrine tumours using Peptide Receptor Radionuclide Therapy. This treatment, using ¹⁷⁷-Lutetium labeled peptides, may break grounds for the prostate-specific membrane antigen (PSMA) based treatment of prostate cancer.

ESTRO- ELEKTA BRACHYTHERAPY AWARD



★ **CHRISTOPH BERT**

*University Clinic Erlangen and Friedrich-Alexander-University
Erlangen-Nürnberg, Germany*

Prof Dr Christoph Bert (*1976) studied physics at the Friedrich-Alexander University Erlangen-Nürnberg (FAU) and at the Imperial College in London. After graduation in 2002 he joined the group of Prof Kraft at the GSI Helmholtz Centre for Heavy Ion Research for his PhD-thesis. During the thesis he also stayed at Massachusetts General Hospital in Boston, USA, funded by a stipend from the German academic exchange programme. He received the PhD from Technische Universität (TU) Darmstadt in 2006, for a dissertation on 4D treatment planning for scanned ion beam therapy. This topic was also the focus of his Postdoc at GSI and briefly at the National Institute of Radiological Science (NIRS) in Chiba, Japan. In 2009 Dr Bert obtained the postdoctoral lecture qualification (Habilitation) in medical physics at the Ruprecht-Karls-Universität of Heidelberg.

Since October 2012, Dr Bert is Professor of Medical Radiation Physics at the FAU Erlangen-Nürnberg, and head of medical physics at the Department of Radiation Oncology of the University Clinic Erlangen. His research focus aims at improving therapy techniques and their quality assurance. Current focus topics are the management of organ motion by tracking and error detection in interstitial brachytherapy.

ESTRO-VARIAN AWARD



★ KATHERINA FARR

*Department of Oncology, Aarhus University Hospital
Aarhus, Denmark*

Dr Katherina P. Farr received her MD from Aarhus University, Denmark, in 2006. After completing surgery, general and internal medicine rotation in 2006-2007, she is currently enrolled in a specialist training (residency) programme in clinical oncology, comprising medical and radiation oncology, at Aarhus University Hospital.

Besides the clinical practice, she has conducted a PhD research project concerning perfusion single-photon emission computed tomography (SPECT) imaging and radiotherapy-induced injury in the lung after curative radiotherapy for non-small cell lung cancer. The project was conducted at the Department of Oncology in close collaboration with the Department of Nuclear Medicine and Positron Emission Tomography (PET) Centre at Aarhus University Hospital. The PhD project was guided by Prof C. Grau, Dr A. Khalil and Ass. Prof A. Morsing. Katherina defended her PhD thesis in November 2015.

The primary focus of her research is on non-small cell lung cancer patients undergoing curative radiotherapy with specific interest in radiation side effects in the lungs, and measures to reduce them. Her clinical research focuses on implementation of functional imaging in radiotherapy planning. Katherina is currently working on how to optimise radiotherapy planning according to functional distribution.

ESTRO-ACCURAY AWARD



★ **ALA YAROMINA**

Dept. of Radiation Oncology (Maastrro Lab), Grow - School for Oncology and Developmental Biology, Maastricht University Medical Centre Maastricht, The Netherlands

Ala Yaromina, a native of Belarus, studied environmental science at the International Sakharov Environmental University in Minsk. In 2003 she graduated from University College London having attained the European M.Sc in Radiation Biology under the directorship of Prof Klaus Trott. She studied for her PhD research at the Technische Universität Dresden, Medical Faculty, Department of Radiation Oncology, Germany, under the supervision of Prof Michael Baumann and Prof Daniel Zips. She investigated the impact of various pre-treatment parameters of tumour microenvironment on radiation response in pre-clinical models of cancer. After her PhD she continued working at the OncoRay Center for Radiation Research in Oncology, Dresden, focusing on radiation-induced changes in tumour microenvironment and their association with radiotherapy outcome as well as on predictive biomarkers.

In 2012 she joined the group of Prof Philippe Lambin at the Department of Radiation Oncology (MAASTRO), Maastricht University, The Netherlands, focusing on targeting of Carbonic Anhydrase IX in tumours using novel drugs. Her latest research project includes one of a kind pre-clinical studies testing positron emission tomography (PET) based dose-painting approaches, using state-of-the-art clinical imaging and radiotherapy platforms.



SATELLITE SYMPOSIA

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◆ MONDAY 2 MAY 2016

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ACCURAY

Saturday 30 April 2016

Room 3

13:25 – 14:25

◆ INNOVATIVE PATIENT CARE: PRESENT AND FUTURE

Chairman: Prof Jean Bourhis, Head of the Radiation Oncology Department, CHUV

13:25 – 13:30

Welcome

Dr Lionel Hadjadjeba, M.D., Senior Vice President, President Worldwide Commercial Operations, Accuray

13:30 – 13:45

Adopting new technologies in frontier market countries

Dr B. S. Ajaikumar, Chairman & CEO, HealthCare Global Enterprises, Bangalore

13:45 – 14:00

InCise™ MLC: adding a new dimension to the CyberKnife® platform

Dr Alexandra D. Jensen, Consultant Radiation Oncologist and Section Leader High-Precision Radiotherapy, Inselspital, Bern

14:00 – 14:15

Late-breaking news

Birgit Fleurent, VP Worldwide Marketing, Patient Access and Customer Loyalty, Accuray and Calvin Maurer, Vice President & Chief Technology Officer, Accuray

14:15 – 14:25

Concluding remarks

Prof Jean Bourhis, Head of the Radiation Oncology Department, CHUV

Visit ACCURAY at booth # 1300 for more information.

ELEKTA

Saturday 30 April 2016

Room 2

13:25 – 14:25

(Lunch boxes provided)

◆ CLINICAL ADVANCEMENTS IN RADIATION MEDICINE. TOGETHER WE GO BEYOND.

Chair: Prof Joel Goldwein, Senior Vice President Medical Affairs, Elekta

Session 1 Increasing importance of radiosurgery in a clinic

Clinical experience of Leksell GammaKnife® Icon™ implementation in a comprehensive clinical practice

Dr Alison Cameron, Consultant Clinical Oncologist and Lead Clinician for the Bristol Gamma Knife Centre, University Hospitals Bristol NHS, UK

Lung Stereotactic Ablative Radiotherapy with Versa HD™ - an evolution of clinical practice at the Leeds Cancer Centre

Kevin Franks Consultant in Clinical Oncology, St James's Institute of Oncology, Leeds Cancer Centre, Honorary Clinical Associate Professor, University of Leeds, Leeds Teaching Hospitals NHS Trust, UK

Session 2 Innovations in Cervical Cancer Treatment: improving patient outcomes

Richard Pötter, MD, PhD – Professor and Chairman, Department of Radiotherapy, Medical University of Vienna / Vienna General Hospital (AKH), Austria

Questions & Answers

Prof Joel Goldwein, Senior Vice President Medical Affairs, Elekta

Visit ELEKTA at booth # 200 for more information.

IBA

Saturday 30 April 2016

Room Londra

13:25-14:25

(Lunch boxes provided)

◆ PROTON THERAPY TODAY AND TOMORROW

**13:25 Proton Therapy treatment of lung cancers
Insights from a clinical focus group**

13:45 The biggest challenges in Proton Therapy

14:05 Building the future of Proton Therapy

Visit IBA at booth # 4800 for more information.

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RAYSEARCH LABORATORIES

Saturday 30 April 2016

Room 4

13:25 - 14:25

(Lunch boxes provided)

◆ ADVANCING RADIATION THERAPY THROUGH SOFTWARE INNOVATION

Moderator: Oliver Jäkel, Head of Medical Physics in Radiation Oncology Department, German Cancer Research Center and Medical Physics Director of the Ion Beam Therapy Center, University Hospital Heidelberg, Germany.

13:25 - 13:40

RayStation as a planning tool for proton therapy in clinical practice

Marco Schwarz, Head of Medical Physics, Protontherapy Department, Trento Hospital.

Q&A (5 min)

13:45 - 14:00

Using RayStation as a unified treatment planning system for precision medicine

Olivier Morin, Assistant Professor, Division of Physics, Department of Radiation Oncology, University of California San Francisco, USA.

Q&A (5 min)

14:05 - 14:20

Advancing radiation therapy through software innovation

Johan Löf, Founder & CEO, RaySearch Laboratories AB, Stockholm, Sweden

Q&A (5 min)

Visit RAYSEARCH LABORATORIES at booth # 2000 for more information.

SIEMENS HEALTHCARE GMBH

Saturday 30 April 2016

Room 500

13:25 – 14:25

(Lunch boxes provided)

◆ EMPOWER RADIATION THERAPY WITH MULTIMODALITY IMAGING

“The use of multimodality imaging for treatment individualization: Current trends and future outlook”

Prof Dr Esther Troost, OncoRay – National Center for Radiation Research in Oncology Dresden, Germany

“Evolving role of MRI in Radiotherapy”

Dr Gary Liney, Ingham Institute for Applied Medical Research & Radiation Oncology, Liverpool Hospital, Australia

“What can imaging do for you today?

Exploring the untapped potential of imaging in RT”

Elena Nioutsikou, Siemens Healthcare GmbH, Radiation Oncology, Germany

Visit SIEMENS at booth # 5600 for more information.

BRAINLAB

Sunday 1 May 2016

Room 4

13:10 – 14:10

(Lunch boxes provided)



NOVALIS CIRCLE SYMPOSIUM STEREOTACTIC RADIOSURGERY FOR PRIMARY BRAIN TUMORS

Radiosurgery Planning Requirements for Primary Brain Tumors

Giuseppe Minniti, MD, Azienda Ospedaliera Sant'Andrea, Rome, Italy

Trajectory-based Treatment Planning and Delivery for Cranial Radiosurgery

James Robar, PhD, Queen Elizabeth II Health Science Centre, Halifax, Canada

Frameless IGRS Requirements: ExacTrac 6D Positioning and Monitoring

Linda Carruthers, Western General Hospital, Edinburgh, UK

Cranial SRS Element Overview

Claus Promberger, Brainlab, Munich, Germany

Visit BRAINLAB at booth # 3600 for more information.

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CARL ZEISS MEDITEC AG

Sunday 1 May 2016

Room 2

13:10 – 14:10

(Lunch boxes provided)



ZEISS INTRABEAM SYSTEM: A CANCER RADIATION PLATFORM. MORE THAN 10 YEARS OF TARGETED INTRAOPERATIVE RADIOTHERAPY EXPERIENCE

Chairs : Prof Ferran Guedea (Institut Català d'Oncologia, Barcelona) and Prof Roberto Orecchia (IEO Istituto di Oncologia Milano, Italy)

IORT with INTRABEAM in breast cancer at Catalan Institut of Oncology

Prof Ferran Guedea – Institut Català d'Oncologia, Barcelona

Multidisciplinary Management in Spine Metastasis

Prof Roberto Orecchia – IEO Istituto di Oncologia Milano, Italy

INTRAGO – Intraoperative Radiotherapy for newly diagnosed glioblastoma multiforme: results of a phase I/II trial and progress toward a phase III

Dr Frank Giordano – University Medical Center Mannheim, Germany

Targeting the wound healing response to restrain local recurrence in early breast cancer: a lesson learned by IORT

Dr Gustavo Baldassarre – CRO National Cancer Institute Aviano, Italy

*Visit **CARL ZEISS MEDITEC AG** at booth # 4900 for more information.*

PHILIPS

Sunday 1 May 2016

Room 500

13:10 – 14:10

(Lunch boxes provided)



INNOVATIONS IN THERAPY GUIDANCE

Challenging conventional practices in treatment planning

Prof Lorenzo Livi, MD, PhD, Director of Radiation Oncology Unit
University of Florence, Italy

A clinical perspective on the expanding role of MRI

Prof Marco van Vulpen, MD, PhD, Chair of the department of Radiation Oncology,
UMC Utrecht, The Netherlands

Enabling comprehensive oncology solution with genomics and radiotherapy planning

Nevenka Dimitrova, PhD CTO Genomics, Philips Healthcare IT

Visit PHILIPS at booth # 2800 for more information.

SCANDIDOS

Sunday 1 May 2016

Room Londra

13:10 – 14:10

(Lunch boxes provided)



PATIENT DOSE VERIFICATION IN MODERN RADIATION THERAPY

Development and testing of a new MR compatible Delta4 Phantom

Wilfred deVries, Physicist Assistant, Dep. Radiotherapy, UMC Utrecht

Acceptance criteria for patient QA plans world-wide

Denis Breugnot, Application Specialist, ScandiDos SAS France

Clinical Evaluation of Delta4 Discover a ScandiDos Transmission Detector

Clinical Evaluation of Delta4 Phantom+

Delta4DVH Anatomy version 2.0 – QA in the patient anatomy

Visit SCANDIDOS at booth # 6400 for more information.

SUN NUCLEAR CORPORATION

Sunday 1 May 2016

Room 3

13:10 – 14:10

(Lunch boxes provided)



INNOVATIVE QA SOLUTIONS TO IMPROVE PATIENT SAFETY

13:10 Implementing an Automated TG-142 Imaging and Mechanical QA Solutions

Nicola Mullins, MS, Lincoln County Hospital, Lincoln, UK

13:30 Transit 3D Dosimetry with EPID – an Automated QA Solution

Karsten Eilertsen, PhD, Oslo University Hospital, Oslo, Norway

13:50 Assess and Improve Planning Quality

Ahmad Nobah, MS, King Faisal Specialist Hospital & Research Center, Riyadh, Saudi Arabia

Visit SUN NUCLEAR CORPORATION at booth # 1000 for more information.

VARIAN MEDICAL SYSTEMS

Sunday 1 May 2016

Room 1

13:10 – 14:10

(Lunch boxes provided)



MOVING RADIOTHERAPY TOWARDS THE HORIZON

Where we are now: Today's Challenges in Technology, Resource and Access

Dr Clive Peedell, South Tees Hospitals, Middlesbrough, UK

Advances in technology: To what end

Dr Max Dahele, VU University Medical Center, Amsterdam, Netherlands

Conversation and discussion

Dr Patrick Kupelian, Varian Medical Systems, Palo Alto, USA

Visit VARIAN MEDICAL SYSTEMS at booth # 5500 for more information.

VIEWRAY, INC.

Monday 2 May 2016

Room 2

13:25 – 14:25

(Lunch boxes provided)

◆ ADAPTIVE THERAPY AND BEYOND: MULTI-CENTER EXPERIENCE WITH MRI-GUIDED RADIATION THERAPY

Come hear first-hand clinical experience with MRIdian®, the world's only MRI-guided radiation therapy system. Presenters from four institutions will discuss everything from implementation and quality assurance to SBRT delivery and on-table adaptive therapy using real-time MRI-guidance.

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- VU University Medical Center, Amsterdam
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- University of California, Los Angeles, Jonsson Comprehensive Cancer Center
- Siteman Cancer Center, Barnes-Jewish Hospital and Washington University School of Medicine, St. Louis, Missouri

Moderator by Professor Vincenzo Valentini, Chairman of the Radiation Oncology Department at Gemelli-ART, Università Cattolica S.Cuore, Rome.

Visit VIEWRAY, INC. at booth # 5700 for more information.

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Monday, 2 May 2016, 13:25 – 14:25
Londra Room, Lingotto Congress Center



PROGRAMME:

The Need for Integrated Compact Proton Therapy Systems

Jean Bourhis, MD, PhD, Chairman Radiation Oncology
Centre Hospitalier Universitaire Vaudois, Lausanne, Switzerland

**Deployment of Compact Proton Therapy Centers:
An Architectural and Project Management Perspective**

Stephen Courtney, Principal, SCI-X Science Studio, Boston, USA

**Three Years In: Best Practices from the First Compact
Proton Therapy Installation in the United States**

Sasa Mutic, PhD, Director of Medical Physics
Washington University, St. Louis, USA



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MEVION MEDICAL SYSTEMS

Monday 2 May 2016

Room Londra

13:25 – 14:25

(Lunch boxes provided)

◆ STRATEGIES FOR MAKING PROTON THERAPY A CLINICAL REALITY AND BUSINESS SUCCESS

The Need for Integrated Compact Proton Therapy Systems

Jean Bourhis, MD, Ph.D, Chairman Radiation Oncology Centre Hospitalier Universitaire Vaudois,
Lausanne, Switzerland

Deployment of Compact Proton Therapy Centers: An Architectural and Project Management Perspective

Stephen Courtney, Principal, SCI-X Science Studio, Boston, USA

Three Years In : Best Practices from the First Compact Proton Therapy Installation in the United States

Sasa Mutic, Ph.D, Director of Medical Physics Washington University, St. Louis, USA

Visit MEVION at # 6650 for more information.



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Accuray is a radiation oncology company that develops, manufactures and sells precise, innovative tumor treatments that set the standard of care with the aim of helping patients live longer, better lives. Our leading-edge technologies – the CyberKnife® and TomoTherapy® Systems – are designed to deliver the full range of radiation therapy and radiosurgery treatments.



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AQUILAB provides Oncology centers with innovative solutions to improve quality of diagnostic and treatment for patients, such as software for automated analysis of QA Phantoms and evaluation of RT plans or web platforms for clinical trials QA management and online training.

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CIVCO's Radiation Oncology (RO) division designs, manufactures and markets comprehensive motion management solutions to improve patient outcomes and increase clinical productivity for multiple disease sites. RO's products include couchtops and overlays for linear accelerators and imaging systems, advanced patient immobilization solutions, robotic patient positioning, advanced fiducial markers, and immobilization/positioning equipment and consumables. CIVCO offers patients and clinicians the newest and best technology available to improve patient care.

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ECCO is a not-for-profit federation that exists to uphold the right of all European cancer patients to the best possible treatment and care, promoting interaction between all organisations involved in cancer at European level. Through its 23 Members Societies – representing over 80 000 professionals – ECCO is the only multidisciplinary organisation that connects and responds to all stakeholders in oncology Europe-wide.

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Elekta is a human care company pioneering significant innovations and clinical solutions for treating cancer and brain disorders. The company develops advanced tools and treatment planning systems for radiation therapy, radiosurgery and brachytherapy, as well as workflow enhancing software systems across the cancer care spectrum. Through its products and services, Elekta aims to improve, prolong and save patient lives. Elekta solutions in oncology and neurosurgery are used in over 6,000 hospitals globally. Elekta, with corporate headquarters in Stockholm, Sweden, employs approximately 3,000 people globally.

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Founded in 1980, the European Society for Radiotherapy and Oncology, ESTRO, is a non-profit and scientific organisation that advances all aspects of radiation oncology in order to improve patients' care in the multimodality treatment of cancer. With over 6,500 members in and outside Europe, ESTRO supports all the radiation oncology professionals in their daily practice: radiation oncologists, medical physicists, radiobiologists, RTT (radiation therapists) and the wider oncology community. In order to achieve this, the Society promotes education, science dissemination and access to radiotherapy through its courses and workshops, conferences, publications and public affairs activities.



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gKteso specializes in the development of patient platforms with 6D control for radiotherapy with linear accelerators, among other areas. With its RPS base and RPS extended models gKteso is now entering the international medical technology market. About 25 years ago, mechanical engineer Guido Kübler, founder and Managing Director of the company, started with the development and production of 6D-controlled patient platforms for hospitals and specialist practices. As a classic OEM, the company distributes these products to distinguished international partners. The patient platform RPS extended by gKteso convinces clinics and medical centers with numerous features making radiotherapy with linear accelerator both more efficient and more comfortable for the patient. The accurate, reproducible positioning as well as the patient fixation is an essential aspect. The efficiency of the innovative system represents another important advantage, as with RPS extended up to three patients may be simultaneously prepared for radiotherapy with a linear accelerator by means of a specific satellite system.

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IBA is the world's leading provider of proton therapy solutions for the treatment of cancer and Dosimetry advanced solutions for Quality Assurance of medical equipment and increased patient safety. Its aim is to provide their customers with advanced solutions that make medicine safer, more efficient and more accessible to patients. IBA, compassionate innovations for cancer care.



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Mevion Medical Systems, Inc. is a leading provider of proton therapy systems for use in radiation treatment for cancer patients. Mevion's flagship product, the MEVION S250 proton therapy platform, is the only modular, single room proton therapy system currently on the market. The MEVION S250 integrates with standard radiation therapy workflow and provides a proton therapy treatment environment at a fraction of the cost, footprint and operational complexity of conventional systems.

Mevion is privately held and based in Littleton, Massachusetts, with international offices in the United Kingdom and Japan. For more information, please visit www.mevion.com.






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Mobius Medical Systems was founded by Nathan Childress, PhD, who spent six years in the clinic after graduating from MD Anderson's program. It was Dr. Childress's clinical experience that revealed areas in quality assurance that were incredibly inefficient and lacking in accuracy. Realizing that he had an opportunity to give back to his profession he developed both DoseLab software for performing important machine QA and Mobius3D for essential plan and delivery QA. Our software team is made up of an all-star group of developers, scientists, and testing engineers with experience from companies like Cisco, Yahoo! and other well-known high-tech companies. This has allowed Mobius Medical Systems to create QA software that provides levels of accuracy, efficiency and safety not found in any other offerings or methods.

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RaySearch is a world leader in the field of advanced software for radiation therapy. Our solutions are used successfully in over 2,500 clinics in more than 65 countries. Our expertise is on the cutting edge in the fight against cancer. RaySearch's vision is to improve chances of survival and quality of life for cancer patients by providing innovative software to clinics for more effective radiation therapy of cancer.

RaySearch was founded in 2000 as a spin-off from Karolinska Institute in Stockholm, Sweden. In less than fifteen years, the company has established a world-

leading position in the field of advanced software for radiation therapy. RaySearch markets the RayStation® treatment planning system in use in more than 240 cancer centers worldwide. In addition, RaySearch's products are distributed through licensing agreements with leading medical technology companies. RaySearch's software solutions are used by over 2,500 clinics in more than 65 countries. This means that hundreds of thousands of cancer treatments are delivered each year utilizing RaySearch's algorithms and software products.



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RTsafe is a medical technology company that has developed a new approach to quality assurance that significantly enhances the safety and accuracy of radiotherapy for cancer and other medical conditions. We combine proven expertise in medical physics with highly accurate 3-D printing technology to create patient-specific pre-treatment phantoms. These anatomically accurate effigies enable medical professionals to plan more precise treatment interventions and help radiotherapy technology innovators to fine-tune their products. Our initial systems are focused on the treatment of brain tumours and head and neck cancers but we are actively pursuing application of the principle to other parts of the body. Our co-founders and team comprise Medical Physicists, Biomedical Engineers, Software Engineers and Radiation Oncologists. RTsafe innovating patient-specific QA solutions are Patent Pending (PCT/US2014/054838).

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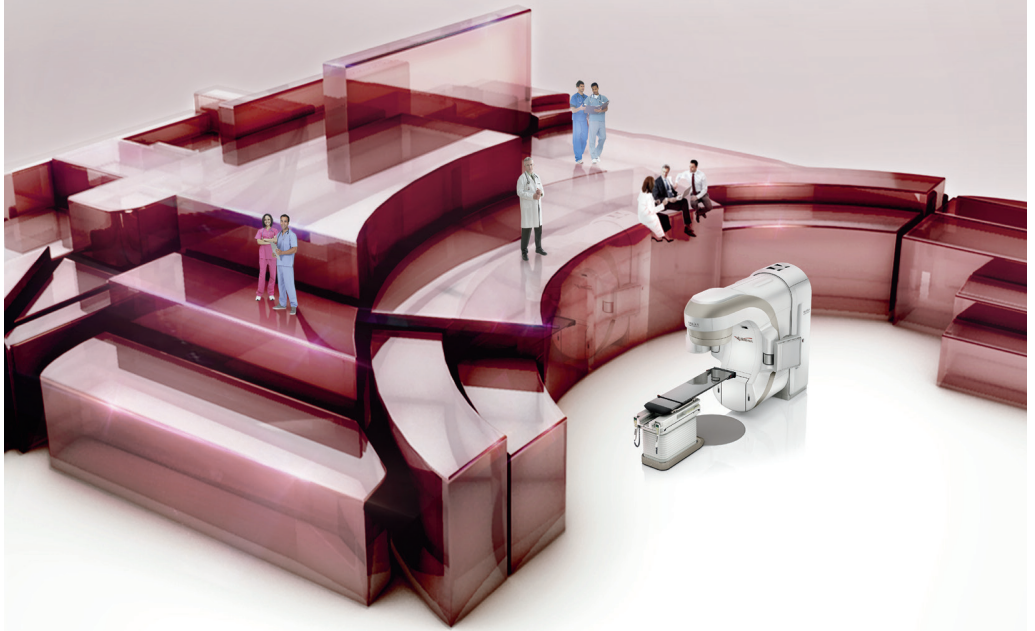




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