

RESEARCH OUTPUTS / RÉSULTATS DE RECHERCHE

SPECT/CT lymphoscintigraphy for superselective nodal CTV selection in cN0 HNSCC patients: A phase I study

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ESTRO
33

4 - 8 April 2014
Vienna, Austria

**PROGRAMME BOOK &
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IT'S ELEMENTARY



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I was told I would never go to university...

Thanks to PROTON THERAPY, Mary, physics graduate, is living a normal life in Oxford, UK. She was diagnosed with a medulloblastoma in 1997.

More about Proton Therapy treatment for Medulloblastoma

- Article: St. Clair et al. Int. J. Radiation Oncology Biol. Phys., Vol. 58, No. 3, pp. 727-734, 2004
- Clinical trial: Proton Beam Radiotherapy for Medulloblastoma and Pineoblastoma/ NCT01063114 - <http://clinicaltrials.gov>

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WELCOME LETTERS



Vincenzo Valentini
ESTRO President

It is my privilege and great pleasure as President of ESTRO and Chair of the congress, to invite you to ESTRO 33 which will take place in Vienna from 4 to 8 April 2014. The welcome letter that follows was written by ESTRO's President-elect, Donal Hollywood who recently passed away. Sharing Donal's feelings and perspective related to this event, I am pleased to leave this message as written by Donal.

ESTRO looks forward to welcoming you in Vienna.

Vincenzo Valentini
ESTRO President
Chairperson of ESTRO 33

“

ESTRO 33 is the premier European event in Radiation Oncology and will focus on new and emerging developments in the field.

Since the foundation of ESTRO, more than 30 years ago, Radiation Oncology has fortunately seen continuous change with virtually every aspect of the basic science of our discipline and of the clinical treatment drastically improving for the benefit of patient care. In this context, ESTRO 33 will assist ESTRO's recent Vision for 2020 statement that: "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".

In line with the ESTRO Vision document, the ESTRO 33 Scientific Programme will aim to cover mainly the following scientific topics.

1. The integration of new clinical and preclinical evidence from biology,

- molecular/functional and anatomic imaging in Radiation Oncology
2. The physical and biological optimisation of radiation therapy
 3. The use of new systemic agents together with the delivery of high precision radiation therapy in a safety aware environment
 4. Combined-modality treatment using radiation and either cytotoxic and/or targeted therapeutics
 5. The use of high-precision radiotherapy used with curative intent in patients with metastatic and locally recurrent disease
 6. New developments in Radiation Oncology that further improve the safety of high-precision radiotherapy
 7. New approaches to adaptive radiotherapy integrating novel developments in biology, imaging, technology, and the assessment of tumour response and patient outcome
 8. The potential future use of novel biological modifiers of tumour and normal tissue response
 9. The development of validated predictive models of treatment outcome based on complex databases comprising clinical, biologic, genetic, imaging, dosimetric and population data
 10. Quality programmes, including clinical audit and comprehensive safety systems in Radiation and Clinical Oncology that maintain the principles of providing the highest quality of patient care and treatment in a safety-aware environment
 11. Health services research in radiotherapy and oncology, including the long term analysis of changes in specialist staffing in the discipline, the level of equipment, the appropriate implementation of new technology, patient access to new treatment approaches; together with the critical analysis of these strategic developments using cost-benefit, cost-utility and other means of health economic review and health technology assessment
 12. Clinical trials (phase 0, I, II, and III) in radiotherapy and combined modality

Together, in sharing this patient-centered objective, we will move the ESTRO Vision forward and build what promises to be an event looking at the challenges of the future.

Donal Hollywood



Daniel Zips
Chair of the
Scientific Programme
Committee



Claudio Fiorino
Chair of the
Scientific Programme
Committee

On behalf of the Scientific Programme Committee, we are pleased to invite you to the ESTRO 33 congress in Vienna, Austria.

ESTRO is an interdisciplinary society where radiation oncologists, medical physicists, biologists, RTTs (Radiation Therapists) and nurses aspire to join forces with other organisations in the oncology field that share ESTRO's vision of excellence in cancer treatment. At ESTRO 33, 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 our society will be highlighted during sessions addressing prominent topics in Radiation Oncology such as individualised approaches, safety and quality, adaptive strategies and new technologies. Recent trends in medical physics and radiation biology will also be receiving wider coverage from different perspectives.

The multidisciplinary component of our profession will be highlighted in several joint sessions with other oncology societies.

ESTRO 33 will continue with the tradition of starting the congress with a series of pre-meeting courses and contouring workshops. Some of the many highlights in the scientific programme will include presentations of the best abstracts and several joint sessions with international scientific organisations.

As in previous conferences, ESTRO 33 will offer an additional Young Scientists Track on Sunday, 6 April. 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.

Finally, all of the leading exhibitors will contribute to ESTRO 33,

Europe's largest industrial exhibition in Radiation Oncology, offering the opportunity to view the latest products and services in cancer treatment and cancer care.

Hosting the annual ESTRO congress in Vienna is not a pure coincidence: this is the city where radiotherapy started more than 100 years ago and special sessions in the scientific programme will pay homage to the Vienna School of Radiotherapy and to some of the pioneers of radiotherapy.

Sincerely,

Daniel Zips & Claudio Fiorino

Chairpersons of the Scientific Programme Committee

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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 shall be 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 will promote innovation, research, and dissemination of science through its congresses, special meetings, educational courses and publications.

◆ ESTRO SCHOOL

The ESTRO School has become an internationally recognised provider of high-quality education in radiotherapy and oncology.

The School has developed a wide array of educational activities that cover:

- Annual/biennial 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 with FALCON (Fellowship in Anatomic deLineation and CONtouring) the online delineation tool
- Hands-on experience through the Mobility Grants programme

The ESTRO School promotes multidisciplinary education in oncology, basic science, physics & 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 2014, the ESTRO School is organising 35 live courses (29 in Europe and 6 outside Europe).

More information on the 2014 and 2015 course programme on www.estro.org.

ABOUT ESTRO

◆ ESTRO CONFERENCES

ESTRO next annual conference:

3RD ESTRO FORUM

24-28 APRIL 2015 | BARCELONA, SPAIN

The 3rd ESTRO Forum will place the interdisciplinarity feature of the Society in the spotlight. The meeting will present the latest advances in clinical radiation oncology, radiobiology, radiation physics, radiation technology and brachytherapy and aims at fostering exchanges between all radiation oncology professionals.

◆ ESTRO MEMBERSHIP

The Society has the mission to represent all the radiotherapy professionals but is also open to other oncology specialists such as medical oncologists, surgeons, nuclear medicine physicians...

By joining ESTRO, you will receive numerous benefits that have been carefully designed to support and advance your career:

- Subscription to *Radiotherapy & Oncology*
- Reduced fees for attending ESTRO Conferences or teaching courses
- Special prices for ESTRO publications and handbooks
- And not to be missed, according to your level of membership, the access to DOVE (Dynamic Oncology Virtual ESTRO)

Accessible via the estro.org home page, the virtual library can allow you, as a member, to search and download all kinds of scientific documents: webcasts, abstracts, guidelines, educational material, access to FALCON (the delineation platform), etc.

2014 membership is available on the ESTRO website and at the ESTRO booth during ESTRO 33, booth # 3300 in the exhibition hall.

More information on www.estro.org.

◆ RADIOTHERAPY AND ONCOLOGY

ESTRO's official scientific journal, *Radiotherapy and Oncology*, also known as the Green Journal, plays a pivotal role in fulfilling one of the Society's main objectives: the promotion of research and dissemination of outcomes.

The editors receive submissions from authors throughout the world, and articles cover all areas of interest in radiation oncology through a range of original, high-level scientific papers, short communications and technical notes, review articles, editorials, commentaries and letters.

The Journal is one of the leading journals in the Radiation Oncology field. It publishes 12 issues a year and is sent in hard-copy format to ESTRO members.

GENERAL INFORMATION

◆ ACCOMMODATION

Mondial is the official accommodation agent for ESTRO 33 and will operate an accommodation desk in the registration area on:

Thursday	> 16.00 – 18.00
Friday	> 09.00 – 18.00
Saturday	> 09.00 – 18.00
Sunday	> 09.00 – 18.00
Monday	> 09.00 – 18.00
Tuesday	> 09.00 – 12.00

◆ ACCREDITATION

ESTRO 33 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 33 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.

EACCME credits

Each medical specialist should claim only those hours of credit that he/she actually spent in the educational activity. The EACCME credit system is based on 1 ECMEC per hour with a maximum of 3 ECMECs for half a day and 6 ECMECs for a full-day event.

◆ **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, 7 April through the designated stations in the registration area. Certificates of attendance can also be downloaded online until 3 months after the event.

◆ **CURRENCY**

The currency in Austria is the EURO.

◆ **E-POSTER CORNERS**

Electronic poster stations located in the poster area 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.

The poster reception and poster awards will take place in the poster area on Saturday 5 April, 2014 at 18:00. All participants and company delegates are invited.

◆ **EXHIBITION**

An exhibition featuring equipment and medical publishers will be held in the Exhibition area. The opening of the exhibition will be on Friday 4 April, 2014 at 19:15. The exhibition will remain open (between 9:30 and 17:00) until Monday 7 April. Entrance is free for all registered participants.

◆ **GENERAL ASSEMBLY**

- The GEC-ESTRO General Assembly will be held at 13.30 on Sunday 6 April in room Schubert 4-5-6.
- The Physics General Assembly will be held at 13.30 on Monday 7 April in room Schubert 4-5-6.
- All ESTRO members are invited to attend the General Assembly on Monday, 7 April 2014 at 18.00 in Strauss 1.

◆ **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.

◆ **INFORMATION FOR ABSTRACT AUTHORS**

ESTRO 33 abstracts were selected for the following types of presentations.

Oral communication

Abstract is presented in one of the Proffered Papers sessions.

Poster discussion

These sessions take place in a designated room. During a Poster Discussion session, two session chairs have been appointed to discuss a maximum of 8-9 concurrent posters on behalf of the authors. Poster authors are required to be on standby during the session in which their poster is being discussed, to answer any questions by the chair of the session and any participants.

Young scientists' moving poster session

These sessions take place in the Young Poster area. In the Young scientists' moving poster session, the posters have been grouped by topic. The presenting authors of the selected posters in the same group will visit all the posters within each group, along with the audience. At each poster, the presenting author is required to present his poster in 6 minutes, followed by an additional 4 minutes for discussion. The discussion is facilitated by two chairpersons.

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 Friday, 4 April 2014 or anytime after that.

Poster removal time: Posters should be removed on Tuesday, 8 April 2014 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, 5 April 2014 as of 18:00. It will also be indicated in the official schedule, that posters can be viewed during lunch time on Sunday, 6 April and Monday, 7 April.

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. You will be able to view all electronic posters as frequently, and as often as you wish.

In the abstract book

Oral Communication abstracts are designated with OC + number.

Poster Discussion abstracts are designated with PD + number.

Posters are designated with PO + number.

Electronic Posters are designated with EP + number.

GENERAL INFORMATION

◆ **LUNCHEONS AND REFRESHMENTS**

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

◆ **OFFICIAL LANGUAGE**

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

◆ **OPENING CEREMONY AND WELCOME RECEPTION**

All participants and company delegates are invited to the official opening ceremony which will be held in the auditorium on Friday, 4 April 2014 at 18:00. The opening ceremony will be followed by the welcome reception which will take place in the exhibition area.

Opening remarks

V. Valentini (IT) - ESTRO President

D. Zips (DE) - Chair of Scientific Programme Committee ESTRO 33

C. Fiorino (IT) – Chair of Scientific Programme Committee ESTRO 33

R. Pötter (AT) – Chair of National Organising Committee

D. Georg (AT) – Chair of National Organising Committee

Keynote speaker: “Combating global cancer through an effective radiation medicine education” / Rethy Chhem (AT)

Entertainment: Vienna Ballet

◆ **POSTERS**

Posters can be viewed at any time during the conference hours.

◆ **POSTER RECEPTION**

All participants and company delegates are invited to the poster reception which will be held in the poster area on Saturday, 5 April at 18:00.

◆ **SATELLITE SYMPOSIA**

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

GENERAL INFORMATION

◆ **SMOKING**

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

◆ **SOCIAL ACTIVITIES****Friday 4 April 2014**

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

Saturday 5 April 2014

All participants and company delegates are invited to the poster reception and poster awards which will take place in the poster area at 18:00 to 19:00. Canapés and drinks will be served while participants view more than 500 posters of the best posters. During the reception, 3 ESTRO awards of 1000€ each will be handed out to the best scored posters.

Monday 7 April 2014

All participants are invited to the ESTRO after dinner party which will take place at the Volksgarten, Burgring 1, 1010 Vienna, as of 21.30. Additional tickets for the event are available for purchase (on site only) at 80€ + VAT per person.

Tuesday 8 April 2014

A visit to MedAustron has been arranged at the end of the Congress. The price includes a packed lunch, transportation and a guided tour of MedAustron.

◆ **SPEAKER PREVIEW**

The Speaker Preview Room is located on the ground floor. Speakers are requested to bring their PowerPoint presentations to the Speaker Preview Room at least 3 hours prior to the start of the session or the day before if the session is planned in the early morning.

Opening hours

Thursday, 3 April > 16:00-18:00

Friday, 4 April > 07:30-18:00

Saturday, 5 April > 07:00-18:00

Sunday, 6 April > 07:00-18:00

Monday, 7 April > 07:00-18:00

Tuesday, 8 April > 07.30-12:00

◆ **WIFI**

Wireless internet will be in the designated wifi area.

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ACKNOWLEDGEMENTS

- ◆ **ESTRO, THE EUROPEAN SOCIETY FOR RADIOTHERAPY AND ONCOLOGY WISHES TO THANK FOR THEIR SUPPORT TO THIS CONGRESS:**

*Accuray
Brainlab
Carl Zeiss Meditec AG
Elekta
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IBA
Merck
Philips Healthcare
RaySearch Laboratories AB
ScandiDos
Siemens
Sun Nuclear Corporation
Varian Medical Systems
ViewRay Incorporated*

And all companies having supported the participation of delegates in the Congress and/or participating in the technical exhibition.

ESTRO would like to extend a special thank you to the Chair of ESTRO 33, Vincenzo Valentini and to the Chairs of the Scientific Programme Committee, Daniel Zips and Claudio Fiorino for having accepted the responsibility to develop the scientific programme. Thank you to the National Organising Committee Chairs, Richard Pötter and Dietmar Georg for having gracefully accepted to host ESTRO 33. Special thanks go to all the members of the scientific advisory groups, national organising committee members as well as the abstract reviewing committee 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
EANM - European Association of Nuclear Medicine
EAU - European Association of Urology
EFOMP - European Federation of Organisations for Medical Physics
EORTC - European Organisation for Research and Treatment of Cancer
ESMO - European Society for Medical Oncology
ESR - European Society for Radiology
ESSO - European Society of Surgical Oncology
IAEA - International Atomic Energy Agency
ILROG - The International Lymphoma Radiation Oncology Group
PROS - The Paediatric Radiation Oncology Society



Satellite Symposium ESTRO 2014
Sunday, April 6th 2014, ESTRO 33 2014, Vienna
1pm - 2:15pm, Room Lehar 4, 1st floor

INTRABEAM

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Spezialized IORT, e.g.
Gastrointestinal Cancer



Spinal Metastases



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www.meditec.zeiss.com/radiotherapy



AWARDS

- ★ LIFETIME ACHIEVEMENT AWARD P 26
- ★ ESTRO AWARD LECTURES AND ACADEMIC AWARDS P 31
 - Emmanuel van der Scheuren Award | 31*
 - Donal Hollywood Award | 32*
 - GEC- ESTRO Iridium 192 award | 33*
 - Klaas Breur Award | 34*
- ★ HONORARY MEMBER LECTURES P 35
- ★ ESTRO-JACK FOWLER UNIVERSITY OF WISCONSIN AWARD P 37
- ★ COMPANY AWARDS P 38
 - ESTRO-Accuray Award | 38*
 - ESTRO-Varian Award | 39*
 - ESTRO-Nucletron Brachytherapy Award | 40*
 - GEC-ESTRO Best Junior Presentation | 41*

★ **LIFETIME ACHIEVEMENT AWARD**

F. Stewart (NL)
JC Horiot (CH)
JF Bosset (FR)
M. Goitein (CH)
D. Kogelnik (AT)

★ **ESTRO AWARD LECTURES AND ACADEMIC AWARDS****Emmanuel van der Schueren Award**

Back to the future: synergies between physics and medicine from history to horizon

D. Thwaites (AU)

Saturday, 5 April 2014 from 12:20 – 13:00

Donal Hollywood Award

No prognostic impact of HPV on RT-outcome in advanced non-oropharynx cancer - analysis of 1606 DAHANCA patients

P. Lassen (DK)

Sunday, 6 April 2014 from 11:45-12:00

GEC-ESTRO Iridium 192 Award

From Paris system to ICRU 88 a close ally for brachytherapy

Awardee: A.Wambersie (BE)

Speaker: E. van Limbergen (BE)

Sunday, 6 April 2014 from 17:30 – 18:00

Klaas Breur Award

Image guided adaptive radiotherapy - the paradigm of cervix cancer brachytherapy

R. Pötter (AT)

Monday, 7 April 2014 from 12:30 – 13:00

★ **HONORARY MEMBER LECTURES****Innovation of radiation therapy from 3DRT to 4DRT**

M. Hiraoka (JP)

Saturday, 5 April 2014 from 17:30-17:45

Cobalt-60, carbon ions, nanotechnology and beyond

B. Vikram (US)

Saturday, 5 April 2014 from 17:45-18:00

★ **ESTRO ACADEMIC AWARD****ESTRO-Jack Fowler University of Wisconsin Award**

Real-time dose reconstruction during volumetric modulated arc therapy with dynamic MLC tracking

T. Ravkilde (DK)

Sunday, 6 April 2014 from 18:20-18:30

★ **COMPANY AWARDS****ESTRO-Accuray Award**

Real time prostate gland motion and deformation during cyberknife stereotactic body radiotherapy

D.Gupta (IN)

Sunday, 6 April 2014 from 18:00-18:10

ESTRO-Varian Award

PET imaging for characterization of head and neck tumours

B. Hoeben (NL)

Sunday, 6 April 2014 from 18:10-18:20

ESTRO-Nucletron Brachytherapy Award

Evaluation and comparison of a novel vaginal dose reporting method in 153 cervical cancer patients

H. Westerveld (NL)

Sunday, 6 April 2014 from 10:30-10:40

GEC-ESTRO Best Junior Presentation - sponsored by Nucletron

Investigation of radiation therapy effectiveness and safety of recurrent head and neck squamous cell carcinoma

V. Rudzianskas (LT)

Saturday, 5 April 2014 from 16:55-17:05



Fiona Stewart

★ **LIFETIME ACHIEVEMENT****FIONA STEWART**

Netherlands Cancer Institute (NKI), Amsterdam, The Netherlands

Dr Fiona Stewart did her PhD research at the Gray Laboratory Northwood UK, under the supervision of Julie Denekamp, on normal tissue damage after radiation combined with hyperthermia. After her PhD (1978) she continued working at the Gray Lab, focusing mainly on late radiation effects in kidney and bladder. She also collaborated with Julie Denekamp and Ana Maria Rojas to investigate the radio-protective effects of amifostine in normal tissues, and to compare this with any potential protection of tumours.

In 1984 she moved to the Netherlands Cancer Institute in Amsterdam where she set up a new radiobiology group, together with Adrian Begg and with the support of Harry Bartelink. In Amsterdam she continued to investigate mechanisms of late radiation injury, particularly the long-term recovery potential of tissues and their tolerance to re-irradiation. Another focus of the lab at that time was the interaction between radiation and chemotherapeutic drugs, especially cisplatin, in tumours and normal tissues.

During the 1990s Fiona set up a pre-clinical programme to investigate the clinical potential of photodynamic therapy (PDT) for treatment of small superficial tumours. This pre-clinical PDT programme resulted in the successful introduction of clinical PDT for oral cavity and skin tumours and a dedicated PDT unit opened in December 2006.

The main focus of her lab was on radiation induced endothelial cell and vascular damage in relation to late normal tissue injury. Her latest projects investigated how radiation induces inflammatory and thrombotic changes in capillaries and large vessels and how these changes lead to progressive development of tissue damage and to atherosclerosis.

In addition to her laboratory work, Fiona has been an active member of ESTRO since its foundation in 1981; she was a board member until 2013 and is currently a core member of the ESTRO Education Committee.



Jean-Claude Horiot

★ **LIFETIME ACHIEVEMENT AWARD****JEAN-CLAUDE HORIOT**

Clinique de Genolier, Switzerland

Jean-Claude Horiot witnessed and contributed nearly to half a century of research and progress in Radiation Oncology. Born in 1941, he trained in Lyon (France) under Jean Papillon and at the MD Anderson Hospital in Houston (Texas, USA) with Gilbert H. Fletcher. A Professor of Radiation Oncology since 1972 at the University of Burgundy and Cancer Centre GF Leclerc in Dijon (France), he now works since 2008 at the Institut Multidisciplinaire d'Oncologie of the Clinique de Genolier in Switzerland.

He joined EORTC in 1968 as a member of the Radio-Chemotherapy group and was among the founders of the Radiotherapy group in 1974. He remained secretary of this group for 6 years and president from 1980 to 1982. An EORTC Board member without interruption since 1990, he acted as chairman of the Quality Assurance Committee (1990-1994), secretary-general (1994-1997), president (1997-2000), IDMC (2003-2006) and SAC chairman (2007-2009).

Scientific achievements in EORTC include the pivotal trials on accelerated and hyperfractionated radiotherapy in head and neck cancers and the pioneer methodology and protocols of Quality Assurance in Radiation Oncology. He participated actively to multidisciplinary research in most solid tumours, in particular in head and neck, breast, male and female pelvic tumours. He contributed to the development of brachytherapy and high energy equipments. He trained more than a hundred radiation-oncologists now active worldwide, delivered 650 presentations in scientific meetings and contributed to nearly 500 publications in peer review scientific medical journals. He received several awards including ESTRO Regaud and Breur lectures, FECS-Pezcoller recognition for contribution to Oncology, Juan del Regato gold medal and GEC-ESTRO Brachytherapy award.



Jean-François Bosset

★ **LIFETIME ACHIEVEMENT AWARD**

JEAN-FRANÇOIS BOSSET

Centre Hospitalo-Universitaire, Besançon, France

Jean-François Bosset was born in 1946 and was trained in Besançon, Bordeaux, Dijon, and Mayo Clinic. He has been a Professor of Radiation Oncology since 1985 at the University of Franche-Comté in France. He is Head of the Department of Radiation Oncology in Besançon and Montbéliard (both in Franche-Comté). He was the first assessor of the Dean of the medical University in Besançon.

Jean-François Bosset joined EORTC as a member of the Radiotherapy group in the 1980's and was the EORTC Gastro-intestinal subcommittee coordinator for both the Gastro Intestinal and the Radiotherapy Groups. He was a member of the EORTC Review Committee 1996-2002.

His Scientific achievements include clinical research dedicated to chemoradiation in digestive tract cancer.

He was an initiator and coordinator of phase I, II, and III EORTC clinical trials in esophageal, rectal and anal cancers. He has delivered 316 presentations in scientific meetings and contributed to 214 publications in peer review scientific medical journals, and 25 chapters in books.

He is married to Françoise, Ophthalmologist, and has four children and ten grand children.



Michael Goitein

★ **LIFETIME ACHIEVEMENT AWARD**

MICHAEL GOITEIN

Harvard Medical School, Boston, USA

Michael Goitein worked in elementary particle physics for five years before switching to Medical Physics at the Massachusetts General Hospital (MGH). He became interested in the then unsolved problem of computed tomography (CT) and was the sixth or so 'inventor' of a technique to reconstruct CT images. With Doug Boyd, he developed probably the first method for reconstructing CT images from fan-beams – currently almost the only geometry used in clinical practice.

Treatment planning

Michael realised that CT provided an accurate 3D map of a patient's anatomy, treatments could then be simulated, dose distributions computed and rival plans compared. The tools developed, now routine but then novel, included: image-based delineation of tumours and normal tissues; non-coplanar beams; beam's-eye-view (BEV) of anatomy; design of beam apertures in the BEV; digitally reconstructed radiographs; dose-volume histograms (DVH) with Verhey; error analysis/display of error bounds on dose displays; side-by-side presentation of plans; organ-by-organ inspection of DVHs; and organ-by-organ review of dose statistics.

Biophysical modeling

Michael Goitein together with Andrzej Niemierko developed models for the response to radiation of non-uniformly irradiated tumours. The tumour model led to the revolutionary idea that the response of an inhomogeneously irradiated tumour was not, as was then supposed, dominated by the minimum tumour dose, and that a boost to just part of a tumour could increase the likelihood of tumour control.

Proton therapy

With colleagues at the MGH and at the Harvard Cyclotron Laboratory, Goitein helped develop proton therapy. He investigated the impact on protons of tissue inhomogeneities and developed methods to compensate for them; developed treatment planning programmes for proton therapy of large-field treatments and treatments of ocular melanomas – the latter is still widely used. He has written on the ethics of randomised clinical trials of protons. Finally, Goitein led the effort to procure, design, build and commission a proton centre at the MGH.



Dieter Kogelnik

★ **LIFETIME ACHIEVEMENT AWARD**

DIETER KOGELNIK

University Clinic of Radiotherapy and Radio-Oncology of the Paracelsus Medical University, Salzburg, Austria

Prof Dr Dieter Kogelnik graduated in 1967 from the Medical Faculty of the University of Vienna, Austria. After a Rotating Internship in New York (1968), he performed his Residency in Radiotherapy in New York at The Mount Sinai Hospital; under Prof. Dr. J. Boland (1969 – 1971). This was followed by a Fellowship in Radiotherapy at the M. D. Anderson Hospital and tumour Institute in Houston, Texas (USA); under Prof. Dr. G. H. Fletcher (1972-1973), and a Project Investigatorship in Experimental Radiotherapy; under Prof. Dr. H. R. Withers (1974). He was awarded Board Certification in Therapeutic Radiology by the American Board of Radiology in 1972.

Between 1975 and 1981, he worked at the University Clinic of Radiotherapy and Radiobiology in Vienna, Austria; under Prof. Dr. K. H. Kärcher. From 1982 until his retirement in December 2003, he was Head of the Institute of Radiotherapy and Radio-Oncology at the Landeskrankenanstalten Salzburg (now Paracelsus Medical University).

He was past-president of the Austrian Society for Radiooncology (ÖGRO) from 1989 until 1995 and of the Austrian Society for Senology, member of several scientific societies (ESTRO, ASTRO, etc.) and honorary president of ÖGRO since 2011.

In 1992, he initiated the integration of ÖGRO in the AUSTRON-Project, and became chairman of the Medical Advisory Board (MedAustron will start to treat patients with light ions next year in Wiener Neustadt, Lower Austria).

He published more than 200 scientific papers and edited 12 books, was on the editorial boards of several scientific journals (e. g. Red Journal, Green Journal, Strahlentherapie und Onkologie).

He was chairman of the Local Organising Committee of ESTRO 15 in Vienna (1996) and conference chairman of ECCO 10 (1999, Vienna). He organised seven international meetings “Progress in Radio-Oncology” (initially with Prof. Kärcher in Vienna, later in Salzburg).

He has been married to Melitta since 1972.



David Thwaites

★ **EMMANUEL VAN DER SCHUEREN AWARD**

DAVID THWAITES

Institute of Medical Physics, University of Sydney, Sydney, Australia

David Thwaites completed his PhD in 1978 at Dundee University, Scotland, working on stopping powers in biological materials, with a follow-on post-doc fellowship including sabbaticals at Fermilab, in the Niels Bohr Institute and in Aarhus University. He then worked in the Edinburgh Cancer Centre and Edinburgh University in various clinical medical physicist and academic roles. In 2004/5 he became head of the Radiotherapy Physics group at the Leeds Cancer Centre and the Professor of Oncology Physics in Leeds University. There he helped establish a large new Cancer Centre and a research facility with two research linacs. He later headed the Leeds Department of Medical Physics and Engineering, one of the UK's largest. In 2011 he became Professor of Medical Physics and Director of the Institute of Medical Physics, at Sydney University.

He has always held academic and clinical roles, with interests spanning fundamental science to translational research. His career has reflected his strong belief that patients' best interests are served by ensuring effective engagement of medical physics services with clinical partners and a focus on quality and clinical needs, including research-based development of practice.

Career-long research interests have been in radiation dosimetry, development and implementation of novel radiotherapy methods and accuracy, QA and audit. These have resulted in more than 160 papers, books and chapters and involvement in a wide range of national and international scientific, professional, educational and training protocols, recommendations and guidelines in medical physics and radiation oncology. This includes long support of IAEA activities and a 30-year participation in ESTRO meetings, committees and initiatives, including being Physics Editor of Radiotherapy and Oncology since 1996.

David was awarded FRCR in 2008 for contributions to UK clinical oncology and was recently honoured by IOMP as one of 50 medical physicists to have made outstanding international contributions to the field.



Pernille Lassen

★ **DONAL HOLLYWOOD AWARD**

PERNILLE LASSEN

Aarhus University Hospital, Department of Experimental Clinical Oncology, Aarhus, Denmark

Dr Pernille Lassen has her MD from Copenhagen University and a PhD degree from Aarhus University, Denmark. Currently she is doing her specialist training in radiation oncology and medical oncology (clinical oncology) at the Department of Oncology, Aarhus University Hospital Denmark.

The primary focus of her research has been on Human papillomavirus (HPV) in head and neck cancer with specific interest on how HPV may influence the outcome for head and neck cancer patients treated with primary radiotherapy, and moreover to which extent the response to specific radiobiological modifications of radiotherapy may depend on the HPV-status of the tumours. She has published several papers in this field, mainly based on previously conducted randomised trials performed by The Danish Head and Neck Cancer Group, DAHANCA, and in close collaboration with the Department of Clinical Experimental Oncology at Aarhus University Hospital. This research has been an important contribution to the understanding of the role of HPV in head and neck cancer and how the HPV-status of tumours influences the radiotherapy outcome for head and neck cancer patients.



André Wambersie

★ **GEC- ESTRO IRIIDIUM 192 AWARD**

ANDRÉ WAMBERSIE

UCL-Cliniques Universitaires St-Luc, Brussels, Belgium

André Wambersie trained in radiology and radiation-oncology at the Université Catholique de Louvain (UCL) in Louvain, Belgium.

From 1962-1965, he worked on his PhD thesis on the Relative Biological Effectiveness (RBE) under the leadership of Maurice Tubiana at the Institut Gustave-Roussy, Villejuif, France. From 1966, in Louvain and then at the UCL-Cliniques Universitaires St-Luc in Brussels, he was in charge of Radiation-Oncology and Radiation-Protection. In 1986, he became Full Professor and emeritus in 1995.

He received the Röntgen Plakette/Medal in Reimscheid-Lennep, Germany, in 1990, and the Pierre et Marie Curie Medal of the SIRLAF (Société Internationale de Radiobiologie de Langue Française), in 2006. He collaborated on several books: “De la radiobiologie à la radiothérapie” by M. Tubiana and A. Wambersie, Collection M. Haïssinsky, in 1968, “Radiobiologie” by M. Tubiana, J. Dutreix and A. Wambersie, in 1986, translated by D. K. Bewley in 1990, “Radiobiologie, Radiothérapie et Radioprotection”, coordinator M. Tubiana, in 2008.

He was involved in brachytherapy at the Institut Gustave Roussy, with Andrée Dutreix, in the development of the Système de Paris. The book “Dosimétrie en curiethérapie” was published by A. Dutreix, G. Marinello and A. Wambersie in 1982.

From 1995-2006, he was Visiting Professor at the Ohio State University, in Columbus, USA, in the department of Reinhard Gahbauer. In 2002 he became Doctor of Science honoris causa of the Ohio State University. From 1995-2013, he was Visiting Professor at the Medical University of Vienna, Austria, in the radiotherapy-radiobiology department of Richard Pötter. The modern brachytherapy techniques developed in the department and the GEC-ESTRO (Erik Van Limbergen) programmes motivated his involvement in the field.

Elected in 1969 (still a member) to the International Commission on Radiation Units and Measurements (ICRU), he was Vice-Chairman for 9 years and Chairman from 1997 to 2006.

Under his input, the ICRU published the Report 38 on Intracavitary Therapy in Gynecology (1985), and the Report 58 on Interstitial Therapy (1997). A revision of the gynecology report is now close to completion as an ICRU/GEC-ESTRO report.



Richard Pötter

★ **KLAAS BREUR AWARD**

RICHARD PÖTTER

Department of Radiation Oncology, Christian-Doppler Laboratory for Medical Radiation Research in Radiation Oncology, Comprehensive Cancer Centre, Medical University, General Hospital, Vienna, Austria

Richard Pötter MD has been Professor and Head of the Department of Radiation Oncology, Comprehensive Cancer Centre at the Medical University of Vienna/Vienna General Hospital since 1993. After graduation in medicine in Münster, Germany, he had training in surgery and internal medicine and became a diagnostic radiologist and radiation oncologist. He has been working continuously on imaging in radiotherapy since his habilitation on this topic in 1989.

His major oncological areas of patient care and clinical research have been neutron therapy (up to 93), paediatrics, prostate and gynaecology. He was president of the European Brachytherapy Group GEC-ESTRO from 1999-2003. Since 2004 he has been coordinator of the European network for 3D image guided gynaecological brachytherapy (Gyn GEC-ESTRO) where the international study EMBRACE was developed in which he has been principal investigator since 2008. He has prepared Proton and Carbon Ion Therapy in Austria (MedAustron, starting in 2015) and is engaged in building up translational and clinical research in Hadron Therapy.

Richard Pötter is a clinical editor for *Radiotherapy & Oncology*, the Journal of ESTRO. He has been chairman of the ESTRO Education & Training Committee since 2006 (ESTRO School). Since 2010 he has been Chairman of the Council of Comprehensive Cancer Center Vienna (CCC) and Coordinator of all tumour boards. Richard Pötter is the author of over 300 peer reviewed publications in scientific journals and editor of the GEC-ESTRO handbook of Brachytherapy. He has been continuously very involved in training and education with residents, PhD students and research fellows.

The major focus of his activities in Vienna and abroad during the last two decades has been on the development of MRI guided gynaecologic radiation therapy linking the progress in imaging to the progress in radiotherapy with focus on brachytherapy, and evaluating the clinical impact of these developments.



Masahiro Hiraoka

★ **HONORARY MEMBER**

MASAHIRO HIRAOKA

Kyoto University Graduate School of Medicine, Kyoto, Japan

Dr. Hiraoka graduated from the Kyoto University School of Medicine in 1952. He has been appointed as chair and professor of radiation oncology and image-applied therapy at Kyoto University Graduate School of Medicine since 1995. Dr. Hiraoka worked as the Director of Kyoto University Nanomedicine Merger Education Unit from 2006 to 2010, and as first Director of Kyoto University Hospital Cancer Centre from 2007 to 2009.

He was President of the Japanese Society for Therapeutic Radiology and Oncology (JASTRO) from 2009 to 2012. During these 4 years he was dedicated to reinforcing the relation between JASTRO and ESTRO, including joint membership as well as the joint symposium in each Annual meeting. He is currently President of the Japanese Board of Cancer Therapy, board member of the Japanese Society of Molecular Imaging and of the Japanese Association for Molecular Targeting Therapy of Cancer. He was part of the editorial board of "Radiotherapy and Oncology" and for six years, was Editor-in-Chief of the "International Journal of Clinical Oncology", an official Journal of the Japanese Society of Clinical Oncology. He is a leader of the radiation therapy study group of the Japanese Clinical Oncology Group (JCOG), and was a principal investigator of JCOG0403.

Dr. Hiraoka has been working for development of an innovative radiotherapy system (Vero4DRT) since 2000, and realised tumour tracking stereotactic radiation therapy with real-time monitoring for lung tumour in 2011, and tumour tracking IMRT for pancreas cancer in 2013. For those academia-industry collaboration activities and clinical contributions, he was awarded as follows:

- 1) Award of Minister of Economy, Trade and Industry for "Development of High-precision Radiotherapy System" in 2008
- 2) Prize of Komei-Nakayama Award of Japan Society of Clinical Oncology in 2009
- 3) Prizes for Science and Technology of the Commendation for Science and Technology by the Minister of Education, Culture, Sports, Science and Technology in 2013



Bhadrasain Vikram

★ **HONORARY MEMBER**

BHADRASAIN VIKRAM

National Cancer Institute, Bethesda, Maryland, USA

Dr Vikram received his medical degree from the University of Delhi and trained in radiation oncology at Memorial Sloan-Kettering Cancer Center in New York City. He subsequently served on the faculties of Memorial Sloan-Kettering, Cornell University Medical College and Mount Sinai School of Medicine. From 1992-2003 he served as Professor and University Chair of the Department of Radiation Oncology at the Albert Einstein College of Medicine and Radiation Oncologist-in-Chief at the Montefiore Medical Center in New York City. From 2003-2006 he served on the ACGME Residency Review Committee for Radiation Oncology. He has authored over 150 scientific publications and was listed as among the 1000 'Best Doctors in America' by American Health magazine, a Reader's Digest publication. From 2002-2006 he worked at the International Atomic Energy Agency of the United Nations in Vienna, Austria, helping to establish or upgrade cancer therapy facilities in about 100 low and middle income countries, and founded the Program of Action for Cancer Therapy (PACT). In 2005 he shared in the Nobel Peace Prize awarded to the IAEA whose contribution to global cancer control was cited by the Nobel committee.

Since 2006 he has served as Chief of the Clinical Radiation Oncology Branch at the NCI, overseeing a portfolio of clinical research grants within the Radiation Research Program as well as assisting the Cancer Therapy Evaluation Program and the Coordinating Center for Clinical Trials with NCI's cooperative clinical trials groups programme. He also continues his work on improving cancer prevention and control worldwide.



Thomas Ravkilde

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

THOMAS RAVKILDE

Aarhus University Hospital, Aarhus, Denmark

Thomas Ravkilde completed his M.Sc. in astrophysics in 2007 at Aarhus University, Denmark, having developed computational models of magneto-hydrodynamic shocks in star forming interstellar clouds, in collaboration with the Institut d'Astrophysique Spatiale and the University of Cergy-Pontoise, France. In parallel with his Masters studies, he also started a full-time job in IT outside academia.

Thomas Ravkilde is currently working on a Ph.D. at Aarhus University entitled "Dynamic multileaf collimator (DMLC) tracking and dose delivery for moving targets in radiotherapy" with Ass. Prof. Per Rugaard Poulsen. His work has been the subject of several publications as well as talks at several international conferences and symposia. As a result of the preliminary data from these studies he was awarded the Best Young Physics Poster Award at ESTRO 31 in Barcelona, Spain.

During an academic exchange with Prof. Paul Keall at the Radiation Physics Laboratory, Sydney, Australia, Thomas started the implementation of online real-time dose reconstruction in prototype DMLC tracking software.

Thomas is a keen adventure racer and can regularly be found in remote locations with a map, a backpack and a huge grin on his face. He lives in a rural atmosphere in Haverslev, Denmark, with his wife, two kids, dog, cat, horses and hens.



Deepak Gupta

★ **ESTRO-ACCURAY AWARD**

DEEPAK GUPTA

Medanta Cancer Institute, Gurgaon, Haryana, India

Dr. Deepak Gupta completed his MD in Radiotherapy in 2009 from Chhatrapati Shahuji Maharaj Medical University (previously King George Medical University, India). He then worked as senior registrar in the department of radiation oncology, Tata Memorial Hospital, Mumbai from August 2009 to July 2011. Here, he worked under various disease management groups (DMG) namely, head and neck cancer, neuro-oncology, gynaecological malignancies, genito-urinary malignancies etc. He has participated in various multidisciplinary joint clinics, symposia, evidence based practice guideline sessions and journal clubs.

Dr. Deepak Gupta then joined Medanta The Medicity hospital India, in August and is presently working here as attending consultant. Here he has been involved in developing newer techniques of radiotherapy treatment with special interest being Cyberknife fractionated radiotherapy and various aspects of motion management.

Dr. Deepak Gupta has around 20 national as well as international publications to his credit in various indexed journals.



Bianca A.W. Hoeben

★ **ESTRO-VARIAN AWARD**

BIANCA A.W. HOEBEN

Radboud University Medical Centre, Nijmegen, The Netherlands

Bianca Hoeben received a medical degree from the Maastricht University in the Netherlands in 2005. She worked in the Internal Medicine department of a general hospital before starting her residency in radiation oncology in 2007, at the Radboud University Medical Centre in Nijmegen and the Arnhem Radiotherapy Institute.

Next to the clinical practice, she has conducted a PhD research project concerning non-invasive characterisation of head and neck cancer with PET imaging. Her clinical and pre-clinical research focuses on 18F-FDG and 18F-FLT PET as well as EGFR and hypoxia imaging using various tracers. Special interest of the studies concerns the potential application of molecular imaging for early treatment adaptation and prognostic purposes in head and neck cancer. The PhD project was guided by Dr J. Bussink, Prof. Dr J.H.A.M. Kaanders (Radiation Oncology department), Prof. Dr W.J.G. Oyen and Prof. Dr O.C. Boerman (Nuclear Medicine department).

The research projects have arisen as a collaboration between the departments of Radiation Oncology, Nuclear Medicine, Otolaryngology, Head and Neck Surgery and Pathology of the Radboud University Medical Centre, as well as the MAASTRO clinic - GROW research institute in Maastricht.

Bianca Hoeben will defend her PhD thesis in April 2014 and will conclude her residency in May 2014.



Henrike Westerveld

★ **ESTRO-NUCLETRON BRACHYTHERAPY AWARD**

HENRIKE WESTERVELD

Academic Medical Centre, Amsterdam, The Netherlands

Henrike Westerveld graduated from Medical School at the University of Amsterdam in 2001. During the following six months she worked as a clinical doctor at the Department of Obstetrics and Gynaecology at the Zaans Medical Centre, the Netherlands.

Her scientific career started in 2002 with her PhD project regarding the search for genetic causes of male infertility. During four years she worked for many hours in the lab and learned all the ins-and-outs of fundamental genetic research. In 2008 she received her PhD degree for her thesis entitled "Unraveling the genetics of spermatogenic failure". Although it seemed to be a logical step to apply for a Residency in Gynaecology, she decided to become a Radiation Oncologist.

In 2006, she started her Residency at the Academic Medical Centre in Amsterdam, the Netherlands, under supervision of prof. Caro Koning and later Dr Lukas Stalpers. During her Residency Henrike became enthusiastic about brachytherapy. She applied for a grant from the Dutch Cancer Association (KWF) for a two-years clinical fellowship in brachytherapy. Fortunately, her application was honoured and after finishing her Residency in December 2011, she started her fellowship.

After a crash course in brachytherapy at her own department, she went for six months to the Medical University of Vienna/AKH to work with Professor Richard Pötter. There she became involved in the EMBRACE study group. Since then, Henrike has been an active member in this group with focus on vaginal morbidity and, since recently, vaginal cancer and local vaginal recurrences. During the remaining time of her fellowship, she went to the University Medical Centre Utrecht and the Academic Medical Centre Amsterdam to become an all-round brachytherapist.

Nowadays, she works as a staff member at the Academic Medical Centre with brachytherapy and gynaecology as her main fields of interest.



Viktoras Rudzianskas

★ **GEC-ESTRO BEST JUNIOR PRESENTATION AWARD**

Sponsored by Nucletron

VIKTORAS RUDZIANSKAS

Oncology Institute of Lithuanian University of Health Sciences, Kaunas, Lithuania

Viktoras Rudzianskas received his medical degree at the Medical University of Kaunas, Lithuania in 2002. In 2003, after one year of clinical practice in general medicine, Viktoras Rudzianskas entered a residency programme for radiotherapy and radiation oncology at the Department of Radiotherapy, Lithuanian University of Health Sciences, Kaunas, Lithuania.

In 2007 he stayed as early stage research at the Department of Radiation Oncology at the University Hospital in Würzburg, Germany in the framework of the Leonardo da Vinci exchange programme. In August 2007 he passed his board examination and he was certified as a medical specialist in the field of radiotherapy and radiation oncology. Since then he has combined patients care and clinical research, in which he focuses on multimodality treatment of head and neck cancer and reirradiation of recurrent squamous cell head and neck cancer. Between 2008 and 2012 he worked on his doctoral studies in high dose rate brachytherapy (biomedical programme) focusing on recurrence of head and neck cancer.

Besides his clinical responsibilities, Viktoras Rudzianskas is an active lecturer covering both basic clinical education for medical students and residents at the Lithuanian University of Health Sciences of Kaunas. His current research is concerned with IMRT treatment planning based on FDG-PET/CT images after induction chemotherapy for locally advanced head and neck cancer with colleagues from Department of Nuclear Medicine.

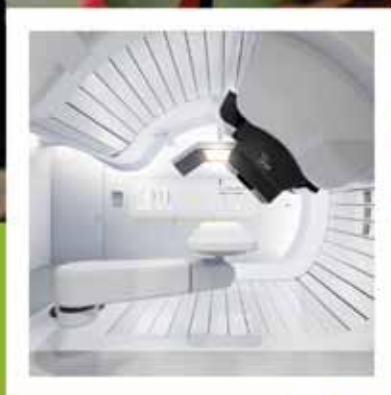
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PROGRAMME

- ◆ YOUNG SCIENTISTS PROGRAMME P 44
- ◆ CONTOURING WORKSHOPS P 47
- ◆ MULTIDISCIPLINARY TUMOUR BOARD SESSIONS P 49
- ◆ PRE-MEETING COURSES P 50

SUNDAY, 6 APRIL 2014
08:00-19:00 | Room A4

08:00-08:40 > Teaching lecture
STATISTICS AND METHODOLOGY: "DO'S AND DON'TS WITH EXAMPLES"
Speaker: P. Blanchard (FR)

Learning Objectives: Knowledge in statistics and methodology is necessary to understand scientific literature and to perform research. This teaching lecture will give an overview on basic principles in statistics and methodology and will provide typical examples relevant for research in the field of radiotherapy and oncology.

08:45-10:00 > Symposium
HOW TO CHANGE YOUR PRACTICE: IMPLEMENTING EVIDENCE BASED PRACTICE CHANGES

Clinical perspective: Implementation of image-guided brachytherapy techniques in clinical practice
P. Petric (QA)

Physics perspective: Implementation of IGRT protocols in clinical practice
M. Stock (AT)

RTT perspective: How to implement new technology for daily clinical use- an RTT experience
H. McNair (GB)

Learning Objectives: Introducing new radiotherapy techniques into clinical practice offers the distinct advantage of the certain technique but is accompanied by new challenges and pitfalls in daily routine. This symposium aims at providing an overview of relevant aspects when implementing a new technique and will focus on practical advices especially for young professionals in the field using the example of image-guided radiotherapy.

10:30-11:30 > **YOUNG SCIENTISTS MOVING POSTER SESSION I**
Session 1: Head&Neck and Lung
Session 2: Gastrointestinal and gynaecology
Session 3: Prostate
Session 4: Interdisciplinary
Session 5: RTT

13:00-14:30 > Lunch symposium
YOUNG ESTRO ACTIVITIES

Report from the Young Task Force
M. Schmid (AT)

Experience of ESTRO fellows / exchange programmes
B. De Bari (CH)

Experience of ESTRO fellows / exchange programmes
F. Cellini (IT)

Proposing mentorship programmes to the Ytf
D. Gabrys (PO)

Feedback / brainstorm from audience for Ytf

Learning Objectives: In this symposium a report on the latest and currently ongoing young ESTRO activities will be provided. Learn about the experience of ESTRO fellows and exchange programs. Join this symposium to be part of the young ESTRO community, to get involved into young ESTRO activities and to exchange your ideas on future activities.

14:30-15:45 > Symposium
OBTAINING GRANTS SUCCESSFULLY

Overview of EU funding options

T. Gauer (DE)

How to write a successful grant application

J. Alsner (DK)

Learning Objectives: This session aims at providing a comprehensive introduction into the complex topic of grant writing. In a first presentation, current possibilities for European funding options will be summarized. In a second part of the session, tips and tricks necessary for successful application to obtain a first individual grant will be given. The session is especially devoted to young scientists in the field of radiotherapy which have not yet gained personal experience in grant writing.

16:15-17:15 > **YOUNG SCIENTISTS MOVING POSTER SESSION 2**
Session 6: Dosimetry and dose measurements
Session 7: Dose calculation and treatment planning
Session 8: Functional imaging
Session 9: Brachytherapy: Gynaecology and prostate
Session 10: Radiobiology

17:30-18:00 > **YOUNG SCIENTISTS RECEPTION**

4-8 APRIL 2014

Lounge 1-2-3-4

◆ **JOINT ESTRO – ILROG ON LYMPHOMA**

Friday, 4 April 2014 from 08:00-10:00

Repeated on Saturday, 5 April 2014 from 08:00-10:00

Chair: L. Specht (DK)

Panellists: S. Terezakis (US) and AK Berthelsen (DK)

Administrator: B. de Bari (CH)

◆ **ORGANS AT RISK**

Friday, 4 April 2014 from 10:30-12:30

Repeated on Sunday, 6 April 2014 from 08:00-10:00

Chair: M. Guckenberger (CH) and S. Rivera (FR)

Panellists: S. Rivera (FR), L. Kepka (PL) and U. Nestle (DE)

Administrator: D. Pasini (IT)

◆ **OESOPHAGUS**

Friday, 4 April 2014 from 13:30-15:30

Repeated on Monday, 7 April 2014 from 08:00-10:00

Chair: O. Matzinger (CH)

Panellists: M. Hulshof (NL) and T. Rozema (NL)

Administrator: B. de Bari (CH)

◆ **RECTUM**

Friday, 4 April 2014 from 16:00-18:00

Repeated on Tuesday, 8 April 2014 from 08:30-10:30

Chair: C. Marijnen (NL)

Panellists: K. Haustermans (BE) and MA Gambacorta (IT)

Administrator: D. Pasini (IT)



CONTOURING WORKSHOPS

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
- Delineation tool presentation
- Presentation of the contouring guidelines recommended by the experts for the delineation of the CTV, GTV +/- OAR + 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

MULTIDISCIPLINARY TUMOUR BOARD SESSIONS

5-7 APRIL 2014 | 08:00-08:40

◆ **RECTAL CANCER**

Saturday, 5 April 2014 | 08:00-08:40 | Room A4

Leader/moderator: V. Valentini (IT)

Panelists: ESTRO fellow - F. Cellini (IT)

Surgeon - P.J Nilsson (SE)

Medical oncologist - D. Arnold (DE)

Diagnostician - R. Beets-Tan (NL)

◆ **BREAST CANCER**

Sunday, 6 April 2014 | 08:00-08:40 | Room Stolz 0

Leader/moderator: P. Poortmans (NL)

Panelists: ESTRO fellow - D. Vordemark (DE)

Surgeon - P. Dubsky (AT)

Medical oncologist - E. Senkus (PO)

Diagnostician - T. Helbich (AT)

◆ **HEAD & NECK CANCER**

Monday, 7 April 2014 | 08:00-08:40 | Room A4

Leader/moderator: V. Grégoire (BE)

Panelists: ESTRO fellow - N. Dinapoli (IT)

Surgeon - H. Mehanna (UK)

Medical oncologist - L. Licitra (IT)

Diagnostician - S. Nemeč (AT)

PRE-MEETING COURSES

FRIDAY, 4 APRIL 2014 | 08:45-17:15 | ROOM SCHUBERT 1-2-3

■ Interdisciplinary pre-meeting course INTRACRANIAL STEREOTACTIC RADIOSURGERY

Course directors: S. Combs (DE) and D. Verellen (BE)

08.45 -09.00 > Welcome and general introduction - *D. Verellen (BE) and S. Combs (DE)*

Session I - THE BASICS OF STEREOTACTIC TREATMENTS

- 09:00-09:20 > Overview of 50 years stereotactic radiosurgery - *T. Stolberg (US)*
- 09:20-09:40 > Overview of different treatment technologies and equipment (past-present-future) - *T. Solberg (US)*
- 09:40-10:00 > Frame-based versus Frameless - *D. Verellen (BE)*
- 10:00-10:30 > Discussion
- 10:30-11:00 > Coffee break

Session II - DOSIMETRY AND BIOLOGY

- 11:00-11:20 > Dose calculation, small field dosimetry, process management and QA (dedicated and non-dedicated approaches) - *S. Heukelom (NL)*
- 11:20-11:40 > Radiobiology and volume limitations in SRS - *D. Zips (DE)*
- 11:40-12:00 > Different prescription models, target volumes and delineation issues - *I. Paddick (GB)*
- 12:00-12:30 > Discussion
- 12:30-13:30 > Lunch

Session III - CLINICAL APPLICATIONS

- 13:30-14:00 > Pre-treatment imaging, treatment planning - *D. Zips (DE)*
- 14:00-14:20 > The neurosurgeon and the radiation oncologist - *M. Levivier (SE)*
- 14:20-14:40 > Vestibular schwannoma (to fractionate or not to fractionate) - *S. Combs (DE)*
- 14:40-15:00 > AVM - *T. Stolberg (US)*
- 15:00-15:15 > Discussion
- 15:15-15:45 > Coffee Break
- 15:45-16:05 > Meningioma - *S. Combs (DE)*
- 16:05-16:25 > Metastases - *F. Lagerwaard (NL)*
- 16:25-16:45 > Functional SRS - *M. Levivier (SE)*
- 16:45-17:15 > Discussion and end of the course

PRE-MEETING COURSES

FRIDAY, 4 APRIL 2014 | 08:30-17:00 | ROOM SCHUBERT 4-5-6

■ Clinical pre-meeting course OPTIMAL USE OF RADIOTHERAPY AND CHEMOTHERAPY IN ORGAN PRESERVATION

Course directors: C. Rödel (DE) and N. James (GB)

08:30-08.45 > Introduction - *C. Rödel (DE) and N. James (GB)*

Session I - ANAL CANCER

- 08:45-09:15 > What is the optimal RT technique (including IMRT, brachytherapy) and dose to treat anal cancer? - *J-P. Gérard (FR)*
- 09:15-10:00 > State of the art multimodal treatment of anal cancer: Role of induction-, concomitant, and adjuvant chemotherapy? - *R. Glynne-Jones (GB)*
- 10:00-10:30 > Role of Biomarkers (HPV, EGFR, etc.) and targeted agents in anal cancer treatment? - *T. Brunner (DE)*
- 10:30-11:00 > Coffee break

Session II - RECTAL CANCER

- 11:00-11:30 > Organ preservation in rectal cancer: data from current trials with short-course RT and chemoradiotherapy - *C. Marijnen (NL)*
- 11:30-12:00 > How can imaging help to identify complete responders? - *R. Beets-Tan (NL)*
- 12:00-12:30 > How to identify favourable patients by prediction models? - *V. Valentini (IT)*
- 12:30-13:30 > Lunch

Session III - BLADDER CANCER

- 13:30-14:00 > The Boston and RTOG experiences with trimodality bladder sparing approaches - *J.A. Efstathiou (US)*
- 14:00-14:30 > The European Perspective of bladder preservation - *O. Ott (DE)*
- 14:30-15:00 > Optimal chemoradiation schedules and the role of radiosensitizers - *P. Hoskin (GB)*
- 15:00-15:30 > Coffee break
- 15:30-16:00 > Can biomarkers help to stratify patients for organ preservation versus radical cystectomy? - *E. Fokas (DE)*
- 16:00-16:30 > Treatment outcomes and quality of life of trimodality organ preservation versus radical surgery - The urologist's view - *S. Krause (AT)*
- 16:30-17:00 > Final Discussion and concluding remarks - *C. Rödel (DE) and N. James (GB)*

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

PRE-MEETING COURSES

FRIDAY, 4 APRIL 2014 | 08:45-17:00 | ROOM STOLZ 0

■ Radiobiology pre-meeting course

CURRENT ADVANCEMENTS IN IMMUNOTHERAPY AND RADIOTHERAPY

Course directors: P. Lambin (NL) and D.V. Krysko (BE)

- 08:45-09:00 > Welcome and introduction
- P. Lambin (NL) and D.V. Krysko (BE)
- 09:00-09:30 > Immunogenic cell death and anti-cancer therapy
- D.V. Krysko (BE)
- 09:30-10:00 > Phagocytosis of dying cells: mechanisms and immunological consequences - L. Dini (IT)
- 10:00-10:30 > Dying cell clearance and its impact on the outcome of tumor radiotherapy - K. Lauber (DE)
- 10:30-11:00 > Coffee break
- 11:00-11:30 > Immunocytokines and radiotherapy: preclinical experience
- P. Lambin (NL)
- 11:30-12:00 > The role of tumour associated macrophages in tumor progression
- CD Gregory (GB)
- 12:00-12:30 > Discussion: Moderated by D.V. Krysko
- 12:30-13:30 > Lunch
- 13:30-14:00 > Is hypoxia an immunological niche?
- J. Bussink (NL)
- 14:00-14:30 > The role of radiotherapy in the induction of antitumor immune responses - G. Multhoff (DE)
- 14:30-15:00 > Effects of ionizing radiation on the immune system: Dendritic and T cells interactions - G. Hildebrandt (DE)
- 15:00-15:30 > Coffee break
- 15:30-16:00 > Clinical experience of immunotherapy combined with radiotherapy
- D. De Ruyscher (BE)
- 16:00-16:30 > In vivo imaging of therapy-induced anti-cancer immune responses in mice and in human - I.J. de Vries (NL)
- 16:30-17:00 > Final discussion and concluding remarks

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

PRE-MEETING COURSES

FRIDAY, 4 APRIL 2014 | 08:30-17:00 | ROOM STOLZ 1-2

■ Physics pre-meeting course

CURRENT ADVANCEMENTS IN TREATMENT PLANNING AND OPTIMISATION

Course directors: M. Alber (DK) and B. Heijmen (NL)

- 08:30-09:10 > Review and state-of-the-art of deformable image registration and normal tissue segmentation - E. Vasquez-Osorio (NL)
- 09:10-09:50 > Motion models and dose accumulation - M. Söhn (DE)
- 9:50-10:30 > Robust planning and adaptation - J. Siebers (US)
- 10:30-11:00 > Coffee break
- Session I - DEALING WITH DEFORMATION AND UNCERTAINTY
- 11:00-11:20 > Plan libraries and selection - M. Hoogeman (NL)
- 11:20-11:50 > Gating, tracking and on-line planning for the MRI linac - B. Raaymakers (NL)
- 11:50-12:10 > Real-time re-planning - U. Oelfke (GB)
- 12:10-12:30 > New computer hardware - J. Hesser (DE)
- 12:30-13:30 > Lunch
- Session II - REAL-TIME APPLICATIONS
- 13:30-14:00 > The Pareto front: Theory - R. Reemtsen (DE)
- 14:00-14:30 > Decision support and guaranteed deliverability - M. Alber (DK)
- 14:30-15:00 > Templates and automatic plan generation - S. Breedveld (NL)
- 15:00-15:30 > Coffee break
- Session III - (AUTO) NAVIGATING THE SOLUTION SPACE
- 15:30-16:00 > Statistical models of plan quality, plan quality prediction and QA
- K. Moore (US)
- 16:00-16:30 > Target volume segmentation, multi-modal imaging - D. Thorwarth (DE)
- 16:30-17:00 > Multi-factorial decision support systems - P. Lambin (NL)
- Session IV - TAPPING INTO THE KNOWLEDGE POOL

PRE-MEETING COURSES

FRIDAY, 4 APRIL 2014 | 08:50-17:30 | ROOM LEHAR 4

■ RTT pre-meeting course

IMAGE GUIDED ADAPTIVE RADIATION THERAPY FOR RTTS

Course directors: A. Boejen (DK) and B. Speleers (BE)

- 08:50-09:00 > Welcome to the pre-meeting. Practical information - *A. Boejen (DK)*
- 09:00-09:30 > From IGRT to IGART - *M. Stock (AT)*
- 09:30-10:00 > Clinical Rationale of ART - *C. Rasch (NL)*
- 10:00-10:30 > Education and training of RTTs in adaptive strategies - *M. Buijs (NL)*
- 10:30-11:00 > Coffee break
- 11:00-11:30 > Imaging and ART (CBCT (kV, MV), CT, MRI, functional imaging)
Deformable image co-registration in ART - *UV Elstrom (DK)*
- 11:30-12:00 > Radiobiology of ART - *W. Dörr (AT)*
- 12:00-12:30 > How to manage the workflow by implementation of IGART treatment- a leaders perspective - *C.D. Scrase (GB)*
- 12:30-13:30 > Lunch
- 13:30-13:55 > Clinical examples and research of ART for bladder cancer
- *H. McNair (GB)*
- 13:55-14:20 > Clinical examples ART for head & neck cancer - with focus on shrinking OAR - *S. van Beek (NL)*
- 14:20-15:00 > Group Discussion: (after interests and with interaction of Turning Point)
- Management
 - Organs at risk
- *A. Boejen (DK) and B. Speleers (BE)*
- 15:00-15:30 > Coffee break
- 15:30-16:00 > Clinical examples ART for lung cancer - *X. Geets (BE)*
- 16:00-16:30 > Cost effectiveness for adaptive strategies - *Y. Lievens (BE)*
- 16:30-17:15 > Discussion about the cost effectiveness for IGART strategies (with interaction of the clinical rational and management of the workflow) What is the consensus of the group at the end of the day
- *A. Boejen (DK) and B. Speleers (BE)*
- 17:15-17:30 > Follow-up of the discussion and closing remarks
- *A. Boejen (DK) and B. Speleers (BE)*

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Radiation Oncology



SCIENTIFIC PROGRAMME

- ◆ SATURDAY 5 APRIL P 58
- ◆ SUNDAY 6 APRIL P 87
- ◆ MONDAY 7 APRIL P 124
- ◆ TUESDAY 8 APRIL P 150

■ Teaching Lecture

HOW TO TRANSLATE NEW BIOLOGICAL CONCEPTS INTO RADIATION ONCOLOGY

08:00 - 08:40 | ROOM STRAUSS 1

Chair: S. Short (United Kingdom)

- 08:00 > How to translate new biological concepts into Radiation Oncology
Speaker: M. Baumann (Germany)

ABS. N°

SP-0001

■ Teaching Lecture

UPDATES ON STEM CELLS AND RADIORESISTANCE

08:00 - 08:40 | ROOM LEHAR 4

Chair: C. Peitzsch (Germany)

- 08:00 > Updates on stem cells and radioresistance
Speaker: J. Rich (USA)

SP-0002

■ Teaching Lecture

ELECTIVE NODAL IRRADIATION: CTV= CAUTIOUS TARGET VOLUME

08:00 - 08:40 | AUDITORIUM

Chair: R. Mazon (France)

- 08:00 > Elective nodal irradiation: CTV= Cautious Target Volume
Speaker: R. Simcock (United Kingdom)

SP-0003

■ Teaching Lecture

RADIOTHERAPY IN TESTICULAR CANCER: CONTROVERSIES AND DEVELOPMENTS

08:00 - 08:40 | ROOM STRAUSS 2-3

Chair: J. Classen (Germany)

- 08:00 > Radiotherapy in testicular cancer: controversies and developments
Speaker: H. Schmidberger (Germany)

SP-0004

■ Teaching Lecture

PTV CONCEPT IN BRACHYTHERAPY – DO WE NEED IT?

08:00 - 08:40 | ROOM SCHUBERT 4-5-6

Chair: T.P. Hellebust (Norway)

- 08:00 > PTV concept in brachytherapy – do we need it?
Speaker: K. Tanderup (USA)

SP-0005

■ Teaching Lecture

MODELLING NORMAL TISSUE COMPLICATIONS: IS THERE LIFE BEYOND LKB AND RELATIVE SERIALITY MODELS?

08:00 - 08:40 | ROOM LEHAR 1-2-3

Chair: I.R. Vogelius (Denmark)

- 08:00 > Modelling normal tissue complications: Is there life beyond LKB and relative seriality models?
Speaker: L. Strigari (Italy)

ABS. N°

SP-0006

■ Teaching Lecture

APPLICATIONS OF DCE-MRI IN RADIOTHERAPY

08:00 - 08:40 | ROOM STOLZ 1-2

Chair: E. Malinen (Norway)

- 08:00 > Applications of DCE-MRI in radiotherapy
Speaker: S. Sourbron (United Kingdom)

SP-0007

■ Teaching Lecture

CLINICAL VALIDATION OF AUTOCONTOURING TOOLS

08:00 - 08:40 | ROOM SCHUBERT 1-2-3

Chair: T. Schuffenhauer (Germany)

- 08:00 > Clinical validation of autocontouring tools
Speaker: L. Boldrini (Italy)

SP-0008

Multidisciplinary Tumour Board**SESSION 1: RECTAL CANCER**

08:00 - 08:40 | ROOM A4

Moderator: V. Valentini (Italy)*Panelist: F. Cellini (Italy)**Panelist: P.J. Nilsson (Sweden)**Panelist: D. Arnold (Germany)**Panelist: R. Beets-Tan (The Netherlands)*

■ Symposium

VIENNA SCHOOL OF RADIOTHERAPY AND ITS IMPACT ON 100 YEARS OF RADIOTHERAPY

08:45 - 10:00 | ROOM STRAUSS 1

Very soon after the discovery of X-rays by Wilhelm Konrad Röntgen in 1895 the medical use of ionizing radiation was successfully initiated. In the early days the new medical discipline radiology covered both diagnostic and therapeutic applications and pioneering work was conducted at the esteemed Vienna School of Medicine in the early 20th century. The symposium will review the work of Leopold

SATURDAY, 5 APRIL 2014

Freund and Guido Holzkecht who can be considered as fathers of the new medical disciplines radiotherapy and diagnostic radiology, as well as Robert Kienböck and Gottwald Schwarz, pioneers of radiobiology and clinical radiotherapy. Moreover, the symposium will also address the impact of their impressive scientific results on modern clinical practice. In today's radiotherapy particle beams are intensively discussed and the number of facilities is steadily growing. The Austron project on neutron spallation pursued in the mid 90-ies of the last millennium will be reviewed as it influenced today's ion beam setting in Europe.

Chair: D. Georg (Austria)

Co-Chair: J. Bourhis (Switzerland)

- 08:45 > Leopold Freund and Guido Holzkecht - fathers of new medical and scientific disciplines
Speaker: J. Widder (The Netherlands)
- 09:10 > Robert Kienböck and Gottwald Schwarz - Pioneers of radiobiology and clinical radiotherapy
Speaker: J. Overgaard (Denmark)
- 09:35 > Austron - origin of today's ion beam setting in Europe
Speaker: R. Pötter (Austria)

Symposium

RADIATION AND REGULATION OF EMT AND METASTASIS

08:45 - 10:00 | ROOM LEHAR 4

This session will focus on cell movement, migration, invasion and the epithelial-mesenchymal transition. The presentations will cover mechanisms and effects of radiotherapy and hypoxia on these processes, as well as novel approaches to target radioresistant and hypoxic cancer cells. Various factors related to these processes will be discussed, including autophagy, integrins, the actin machinery and the epidermal growth factor receptor.

Chair: R. Syljuasen (Norway)

Co-Chair: E. Selzer (Austria)

- 08:45 > Pushing cells and pathogens with actin
Speaker: V. Small (Austria)
- 09:03 > Tumour microenvironment, metastasis and radiation response
Speaker: P. Span (The Netherlands)
- 09:21 > Radiation sensitivity and EMT in cancer: Role of the tumor microenvironment
Speaker: J. Theys (The Netherlands)

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- 09:39 > The effects of radiotherapy on glioblastoma cell invasion
Speaker: N. Cordes (Germany)

Symposium

ELECTIVE NODAL IRRADIATION: HEAD AND NECK, LUNG, OESOPHAGUS

08:45 - 10:00 | AUDITORIUM

J.G. Eriksen, will review the pattern of metastasis in the H&N area, prior to discussing the elective levels in the region that should be taken into consideration during the treatment of tumors located in this area. Following, the lecture will be dedicated to evidence for elective nodal irradiation in the H&N. Finally, the lecture will focus on the impact of p16 positive oropharyngeal tumors when the prognosis is known to be better than HPV negative patients. The lecture will try to address the question: should we change practice for these HPV positive tumors?

L. Kepka Poland, will discuss elective nodal irradiation in lung cancer. The first part of the lecture is focusing on the concept historically changing, imaging and technology dependent. The second and third part will be focusing on current evidences for and against its use in small cell lung cancer and finally, in non-small cell lung cancer.

Chair: P. Maingon (France)

Co-Chair: G. Fastner (Austria)

- 08:45 > Head and neck cancer
Speaker: J.G. Eriksen (Denmark)
- 09:10 > Elective nodal irradiation in lung cancer
Speaker: L. Kepka (Poland)
- 09:35 > Oesophageal cancer
Speaker: M. Stuschke (Germany)

Joint Symposium ESTRO-EAU

CURRENT CONTROVERSIES IN PROSTATE CANCER

08:45 - 10:00 | ROOM STRAUSS 2-3

Chair: R. De Crevoisier (France)

Chair: H. Van Poppel (Belgium)

- 08:45 > Is there a role for focal treatment in prostate cancer? The Radiation Oncologist point of view
Speaker: M. Van Vulpen (The Netherlands)
- 09:03 > Is there a role for focal treatment in prostate cancer? The urologist point of view
Speaker: M. Emberton (United Kingdom)

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09:21 > Should oligometastatic disease in prostate cancer be treated systemically? The Radiation Oncologist point of view
Speaker: P. Ost (Belgium)

09:39 > Should oligometastatic disease in prostate cancer be treated systemically? The urologist point of view
Speaker: A. Briganti (Italy)

■ Symposium

NEW GEC-ESTRO GUIDELINES IN CLINICAL PRACTICE

08:45 - 10:00 | ROOM SCHUBERT 4-5-6

New developments in prostate high-dose-rate brachytherapy lead to an update of the 2005 presented HDR brachytherapy recommendations. Members of the UroGEC & BRAPHYQS groups summarized newest literature knowledge and personal experience on the field.

Subgroups of the Breast WG analyzed the procedure of target definition following closed cavity surgery as well in oncological surgical procedures. Consensus meetings resulted in the preparation of surgery dependent recommendations on APBI target definition.

The use of ultrasound (US) in brachytherapy is increasing. The GEC ESTRO BRAPHYQS and UroGEC working groups elaborated practical guidelines for quality assurance of ultrasound in brachytherapy which will be presented in the session.

Chair: G. Kovács (Germany)

Co-Chair: J.C.A. Dimopoulos (Greece)

08:45 > Prostate HDR
Speaker: P. Hoskin (United Kingdom)

09:10 > GEC-ESTRO guidelines for target definition in breast brachytherapy
Speaker: V. Strnad (Germany)

09:35 > Ultrasound in brachytherapy
Speaker: F. Siebert (Germany)

■ Symposium

BEYOND THE ORGAN RESPONSE-BASED MODELS OF TOXICITY

08:45 - 10:00 | ROOM LEHAR 1-2-3

Modern radiotherapy techniques leave a lot of freedom to distribute incident dose to surrounding tissues. A detailed understanding of the effects of non-uniform dose on OARs is indispensable to steer the dose optimization. In this symposium we consider toxicity for OARs receiving heterogeneous dose. First, the use of dose surface maps for long-term rectal toxicity modelling is discussed.

Next, a mechanistic view on the effects leading to complications follows, and a possible mechanistic NTCP model including volume effects is proposed.

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Finally, a method to correlate rectal toxicity with 3D delivered dose over a population is introduced by using advanced elastic registration.

Chair: M. Witte (The Netherlands)

Co-Chair: P. Winkler (Austria)

08:45 > Using dose-surface maps for rectal toxicity modelling
Speaker: S. Gulliford (United Kingdom)

09:10 > A mechanistic model of normal-tissue damage including spatial effects of the dose distribution
Speaker: E. Onjukka (United Kingdom)

09:35 > Generalised methods for 3D correlation of toxicity data using advanced elastic registration
Speaker: O. Acosta (France)

■ Symposium

QUANTITATIVE IMAGING OF HYPOXIA

08:45 - 10:00 | ROOM STOLZ 1-2

Hypoxia is an important indicator of tumor aggressiveness and reduced sensitivity to radiotherapy. This session highlights established as well as experimental imaging techniques that are used to identify hypoxic regions in cancer. Various PET tracers are available that accumulate in hypoxic tissue. With dynamic contrast-enhanced MRI the microvasculature is characterized. While this is not a direct measurement of oxygenation, in cervical cancer it was shown that DCE-MRI reflects hypoxia in cervical cancer. Finally, the potential of alternative MRI techniques will be discussed that more or less directly reveal the oxygenation status of tumors.

Chair: U. Van der Heide (The Netherlands)

Co-Chair: P. Kopp (Austria)

08:45 > Hypoxia imaging with PET
Speaker: R. Perrin (Germany)

09:10 > Hypoxia signaling in aggressive cancer revealed by DCE-MRI
Speaker: H. Lyng (Norway)

09:35 > Measurement of blood oxygenation
Speaker: L. Van Buuren (The Netherlands)

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■ Symposium

ADAPTIVE TREATMENT PLANNING

08:45 - 10:00 | ROOM SCHUBERT 1-2-3

The session will be focused both on theoretical concepts and clinical implementation of ART strategies. On-line ART approaches are guiding the advanced clinical daily practice, which will be described for different treatment sites. CBCT verification protocols play a crucial role on the redefinition of standards and will be described on the context of ART and adaptive dose painting. During the session, ART site-related strategies workflow will be identified, as well as recent clinical trials.

Chair: F. Moura (Portugal)**Co-Chair: H. McNair (United Kingdom)**

- 08:45 > RTT implementation of daily online soft tissue match for lung tumours
Speaker: M.H. Andersen (Denmark)
- 09:10 > Adaptive dose painting early experiences
Speaker: I. Madani (Belgium)
- 09:35 > Adaptive planning: The RTT perspective
Speaker: D. Pasini (Italy)

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■ Poster Discussion 1

PHYSICS: SMALL FIELD DOSIMETRY AND MONTE CARLO

09:00 - 09:45 | ROOM A4

Chair: T. Knöös (Sweden)**Chair: E. Spezi (United Kingdom)**

- > Characterisation of a scintillation detector for stereotactic field in-air output ratios
B. Hug (Australia), M.A. Ebert, K. Warrenner, N. Suchowerska, P. Liu, A. Ralston, D. McKenzie, R.C. Woodward
- > Monte Carlo output correction factors for Cyberknife and Synergy small fields for the Exradin W1 Scintillator
P. Francescon (Italy), S. Beddar, I. Das
- > Small field output factor measurement using various active detectors and OSLD
D. Shamurailatpam (India)
- > When atomic composition should not be taken into account for scoring the dose in the context of CTV to PTV safety margins
E. Sterpin (Belgium)

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- > An unguene complete geometrical description of the TrueBeam linac for Monte Carlo simulation
L. Brualla (Germany), M. Rodriguez, L. Cozzi, A. Fogliata, W. Sauerwein, J. Sempau
- > Monte Carlo simulation tool for commissioning measurements corrections of a proton pencil beam scanning (PBS) mode
E. Fracchiolla (Italy), S. Lorentini, M. Schwarz
- > Monte-Carlo model development for evaluation of current clinical target volume (CTV) definition for glioblastoma
L. Moghaddasi (Australia), E. Bezak, W. Harriss-Phillips
- > Development of a new virtual source model for portal image prediction
L. Chabert (France), D. Lazaro, E. Barat, T. Dautremer, T. Montagu, M. Agelou, P. Dupuis, F. Gassa, L. De Carlan
- > Validation of the oncentrabrachy collapsed cone convolution algorithm using real patient geometries
Y. Ma (Canada), F. Lacroix, M.C. Lavallée, L. Beaulieu

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PD-0041

PD-0042

PD-0043

■ Proffered Papers

INTERDISCIPLINARY 1: BIOLOGICAL AND IMAGE GUIDED RADIOTHERAPY

10:30 - 11:30 | ROOM STRAUSS 1

Chair: R. Schmid (Austria)**Chair: I. Madani (Belgium)**

- 10:30 > Qualification of an endogenous MRI source of contrast (Lipids T1) as a marker of tumor hypoxia
B. Gallez (Belgium), F. Colliez, M. Safronova, J. Magat, T. Duprez, B.F. Jordan
- 10:40 > Clinical validation on the role of FDG-PET/CT in radiation treatment planning for patients with esophageal cancer
C.T. Muijs (The Netherlands), J.C. Beukema, D. Woutersen, V.E.M. Mul, E.J. Van der Jagt, J. Pruim, G. Hospers, H. Groen, J.T.H. Plukker, J.A. Langendijk
- 10:50 > Analysis of the spatial dosimetric sensitivity of contouring uncertainties in gynecological brachytherapy
M. Arnesen (Norway), T.P. Hellebust, E. Malinen

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- 11:00 > Dose painting under consideration of uncertainties of combined multi-parametric functional images
M. Alber (Denmark), N. Schwenger, H. Schmidt, A.C. Müller, D. Thorwarth **OC-0047** **ABS. N°**
- 11:10 > Library of plans for VMAT irradiation of cervical cancer: First clinical experience
P.M. Kager (The Netherlands), F. Koetsveld, M. Bloemers, P. Remeijer **OC-0048**
- 11:20 > Dynamic contrast enhanced MR imaging for rectal cancer response assessment after neo-adjuvant chemoradiation
M. Intven (The Netherlands), O. Reerink, M.E.P. Philippens **OC-0049**

■ Proffered Papers

RADIOBIOLOGY 1: NORMAL TISSUE - FROM CELLS TO ORGANS TO PATIENTS

10:30 - 11:30 | ROOM LEHAR 4

Chair: C. West (United Kingdom)**Chair: M. Vozenin (Switzerland)**

- 10:30 > Radiation-induced endothelial senescence is under the control of p53 and mitochondrial dysfunction
F. Paris (France), A. Lafargue, C. Pecqueur, F. Vallette **OC-0050**
- 10:40 > Towards the clinic: Application of μ -IGRT for assessment of radiation-induced pneumonitis and pulmonary fibrosis
D. Van Berlo (The Netherlands), A. Gasparini, M. Verheij, J.J. Sonke, C. Vens **OC-0051**
- 10:50 > Differences in dose-volume effects between early and late radiation damage in rat lung
S.J. Van der Veen (The Netherlands), H. Faber, S. Brandenburg, J.A. Langendijk, R.P. Coppes, P. Van Luijk **OC-0052**
- 11:00 > Endothelial progenitor cell transplantation to ameliorate radiation induced vascular remodeling in the lung
S.J. Van der Veen, H. Faber, P. Van Luijk, R.P. Coppes (The Netherlands) **OC-0053**
- 11:10 > A three stage genome wide association study reveals susceptibility for late radiotherapy toxicity at the 2q24 locus
L. Fachal (Spain), A. Gomez-Caamaño, G. Barnett, S. Kerns, B. Rosenstein, C. West, A. Dunning, A. Vega, On behalf of RADIOGEN, And RAPPER **OC-0054**

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- 11:20 > Telomere shortening in lymphocytes of Hodgkin lymphoma with coronary artery disease post treatment
R. M'kacher (France), T. Girinsky, B. Colicchio, M. Ricoul, L. Heidingsfelder, J. Bourhis, S. Koscielny, J.F. Paul, P. Carde, L. Sabatier **OC-0055** **ABS. N°**

■ Proffered Papers

CLINICAL 1: HEAD AND NECK CANCER (1)

10:30 - 11:30 | AUDITORIUM

Chair: E. Lartigau (France)**Chair: N. Dinapoli (Italy)**

- 10:30 > The DAHANCA 6 randomised trial: Five versus six fractions per week of radiotherapy in glottic cancer
N. Lyhne (Denmark), H. Primdahl, C.A. Kristensen, E. Andersen, J. Johansen, L.J. Andersen, J. Evensen, J. Overgaard **OC-0056**
- 10:40 > Meta-analysis of radiotherapy in head and neck cancers: Exploratory analysis according to patient characteristics
P. Blanchard (France), B. Lacas, J. Bourhis, A.M. Trotti, B. Zackrisson, M. Nankiwel, J.A. Langendijk, J. Overgaard, J.P. Pignon **OC-0057**
- 10:50 > Dose de-escalation to the elective nodal sites for head and neck cancer
D. Nevens (Belgium), M. Lambrecht, G. Duprez, J.F. Daisne, D. Van den Weyngaert, N. Platteaux, Y. Geussens, M. Voordeckers, W. De Neve, S. Nuyts **OC-0058**
- 11:00 > Acute toxicity during head and neck cancer RT is a strong predictor of late swallowing dysfunction
H.P. Van der Laan (The Netherlands), R.J.H.M. Steenbakkers, H.P. Bijl, A. Van der Schaaf, O. Chouvalova, J.G.M. Vemer-van den Hoek, J.A. Langendijk **OC-0059**
- 11:10 > Contouring of the pharyngeal superior constrictor muscle. A cooperative study of the AIRO Head and Neck Group
D. Alterio (Italy), D. Ciardo, A. Argenone, O. Caspiani, R. Micera, M.G. Ruo Redda, E. Russi, E. Bianchi, E. Orlandi, R. Orecchia **OC-0060**
- 11:20 > Evaluation of comorbidity in 9,388 Head and Neck Cancer patients: A study from the DAHANCA database
C.R. Boje (Denmark), S.O. Dalton, H. Primdahl, C.A. Kristensen, E. Andersen, J. Johansen, L.J. Andersen, J. Overgaard **OC-0061**

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■ Proffered Papers

CLINICAL 2: LUNG CANCER

10:30 - 11:30 | ROOM STRAUSS 2-3

Chair: D. De Ruyscher (Belgium)

Chair: M. Rajer (Slovenia)

- 10:30 > An individual data metaanalysis of phase II trials of adjuvant or induction chemotherapy for NSCLC treated with chemoRT
P. Van Houtte (Belgium), M. Paesmans, P. Garrido, H. Choy, P. Fournel, J.P. Van Meerbeeck, T. Berghmans, J.P. Sculier OC-0062
- 10:40 > Rapid learning in practice: A lung cancer survival decision support system in routine patient care data
A. Dekker (The Netherlands), S. Vinod, L. Holloway, A. George, G. Goozee, G.P. Delaney, D. Oberije, P. Lambin, D. Thwaites OC-0063
- 10:50 > Selective mediastinal node irradiation in NSCLC in the IMRT/VMAT era: Added value of EBUS-TBNA-mapping to PET-CT
S. Peeters (Belgium), C. Doooms, J. Vansteenkiste, H. Decaluwe, P. De Leyn, K. Nackaerts, W. De Wever, C. Deroose, D. De Ruyscher OC-0064
- 11:00 > Continuous Hyperfractionated Accelerated Radiotherapy (CHART) for NSCLC: experience from nine UK centres
A.G. Bradshaw (United Kingdom), C. Esler, A.E.F. Roy, E. Toy, J.F. Lester, J. Kinsman, P. Atherton, C. Knox, G.A. Walker, M.Q. Hatton OC-0065
- 11:10 > DART-bid: A novel therapeutic approach for locoregionally advanced nonresected non-small cell lung cancer
K. Wurstbauer (Austria), H. Deutschmann, K. Dagn, F. Zehentmayr, C. Fussl, P. Kopp, P. Porsch, B. Maurer, M. Studnicka, F. Sedlmayer OC-0066
- 11:20 > High dose re-irradiation prolongs survival in patients with recurrent lung cancer
E.G.C. Troost (The Netherlands), B. Reymen, A. Van Baardwijk, S. Wanders, F.J.P. Hoebers, E.J. Bloemen-van Gorp, K.M. Smits, A.M. Dingemans, P. Lambin OC-0067

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SATURDAY, 5 APRIL 2014

■ Proffered Papers

BRACHYTHERAPY I: PROSTATE

10:30 - 11:30 | ROOM SCHUBERT 4-5-6

Chair: C. Salembier (Belgium)

Chair: A. Henry (United Kingdom)

- 10:30 > Single dose HDR boost for prostate cancer: a multicentre prospective UK study
P. Hoskin (United Kingdom), P. King, J. Wylie, A. Lydon, T. Sreenivasan, A. Bahl, A.N.N. Henry, I. Ahmed, C. Elwell, C. Heath OC-0068
- 10:40 > HDR brachytherapy boost for prostate: Evaluation of prostate volume impact on dosimetry and toxicity
M. Lavallée, L. Beaulieu (Canada), P. Després, A.G. Martin, W. Foster, E. Vigneault OC-0069
- 10:50 > Regional dose metrics and their relationship to treatment failure in I-125 prostate brachytherapy patients
I. Spadinger, W.J. Morris (Canada), J. Chu, M. Afsari Golshan, M. Keyes OC-0070
- 11:00 > Salvage reirradiation for recurrent prostate cancer patients: three fractions of high-dose-rate brachytherapy
P. Wojcieszek (Poland), M. Fijalkowski, S. Kellas-Slecza, B. Bialas OC-0071
- 11:10 > Focal salvage Iodine-125 brachytherapy for recurrent prostate cancer after primary radiotherapy
M. Peters (The Netherlands), M. Maenhout, J.R.N. Van der Voort van Zyp, M.A. Moerland, M. Moman, U.A. Van der Heide, L.M.G. Steuten, J.J. Battermann, M.J.H. Van Deursen, M. Van Vulpen OC-0072
- 11:20 > Preservation of erectile function after prostate permanent implantation for localized prostate cancer
R. Oismueller (Austria), K. Poljanc, C. Somay, S. Schuch, M. Rauchenwald, S.T. Madersbacher, R. Hawliczek OC-0073

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■ Proffered Papers

PHYSICS 1: RADIOBIOLOGICAL MODELLING

10:30 - 11:30 | ROOM LEHAR 1-2-3

Chair: W. Tomé (USA)

Chair: T.T. Böhlen (Switzerland)

- 10:30 > Association of Computed Tomography image textures with inflammatory biomarkers in radiation-induced lung injury
S. Lee (Canada), N. Ybarra, K. Jeyaseelan, S. Faria, N. Kopek, M. Vallieres, I. El Naqa OC-0074
- 10:40 > Investigation of the radiobiological implications of respiratory gating in vitro for non-small cell lung cancer
A.J. Cole (United Kingdom), C.K. McGarry, S.J. McMahon, K.T. Butterworth, B.F. O'Connell, G.G. Hanna, S. Jain, J.M. O'Sullivan, K.M. Prise, A.R. Hounsell OC-0075
- 10:50 > Second cancer risk estimates for cranio-spinal irradiation with electron, photon, and proton therapy
C. Stokkevåg (Norway), G.M. Engeseth, K.S. Ytre-Hauge, D. Röhrich, O.H. Odland, L.P. Muren, M. Brydøy, L.B. Hysing, A. Szostak, J.B.B. Petersen OC-0076
- 11:00 > Risk of second malignancy following prostate radiotherapy using modern radiotherapy techniques
L. Murray (United Kingdom), C.M. Thompson, J. Lilley, K. Franks, D. Sebag-Montefiore, A.M. Henry OC-0077
- 11:10 > A mechanistic model of Withers' accelerated repopulation, based on the interplay between hypoxia and proliferation
J. Jeong, J.Q. Deasy (USA) OC-0078
- 11:20 > Biological modeling of gold nanoparticle radiosensitization for proton therapy
Y. Lin (USA), H. Paganetti, J. Schuemann OC-0079

■ Proffered Papers

PHYSICS 2: TECHNICAL ASPECTS OF IMAGING

10:30 - 11:30 | ROOM STOLZ 1-2

Chair: W. Birkfellner (Austria)

Chair: C. Gaisberger (Austria)

- 10:30 > Artifact-resistant motion-compensated on-board cone-beam CT imaging
M. Brehm (Germany), P. Paysan, M. Kachelrieß OC-0080

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

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- 10:40 > Motion and metal artifact reduction in cone beam CT with implanted cylindrical gold markers
J. Toftegaard (Denmark), W. Fledelius, D. Seghers, M. Huber, E. S Worm, U. V Elstrom, P. R Poulsen OC-0081
- 10:50 > Dynamic-contrast-enhanced MR imaging: a phantom for offline parameter optimization and quality assurance
R.F. Verhaart (The Netherlands), R. Pellicer, A. Van der Lugt, M.M. Paulides, G. Kotek OC-0082
- 11:00 > Evaluation of a dedicated radiotherapy positioning solution for combined PET/MR imaging
R. Winter (Germany), S. Leibfarth, D.H. Paulus, H.H. Quick, S. Gatidis, H. Schmidt, N. Schwenzer, D. Zips, D. Thorwarth OC-0083
- 11:10 > Iterative correction of subject-dependent B0 inhomogeneity field maps for geometric distortion correction
A. Matakos, J. Balter, Y. Cao (USA) OC-0084
- 11:20 > Validation of deformable image registration algorithms on CT images of ex vivo porcine bladders
S.E. Heethuis, S. Wognum, M.S. Hoogeman, A. Bel (The Netherlands) OC-0085

■ Proffered Papers

RTT 1: ADVANCED TREATMENT PLANNING AND DOSE CALCULATION

10:30 - 11:30 | ROOM SCHUBERT 1-2-3

Chair: E. Forde (Ireland Republic of)

Chair: E. Miles (United Kingdom)

- 10:30 > Coronary dosimetry based on heart CT angiographies for Hodgkin lymphoma radiation therapy
A. Moignier (France), S. Derreumaux, D. Broggio, A. Beaudré, T. Girinsky, J.F. Paul, B. Aubert, D. Lefkopoulos, E. Deutsch, J. Bourhis OC-0086
- 10:40 > Clinical end to end testing of a workflow for MRI-only RT planning based on a novel 3D UTE volumetric MRI sequence
M. McGarry (Qatar), G. Perkins, T. Torfeh, R. Hammoud, A. Celik, N. Al-Hammadi OC-0087
- 10:50 > Preoperative IMRT objectives and planning strategies to improve Soft Tissue Sarcoma normal tissue outcomes
C. Dickie (Canada), A. Griffin, P. Ferguson, J. Wunder, C. Catton, P. Chung, M. Sharpe, B. O'Sullivan OC-0088

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- 11:00 > Dosimetric comparisons of helical tomotherapy, VMAT and sliding window IMRT in thyroid cancer
W.L. Mui (Hong Kong (SAR) China), G. Chiu
- 11:10 > Clinical introduction of an all-in class solution for prone breast hypofractionated SIB with multibeam IMRT
S. Cucchiaro (Belgium), D. Dechambre, C. Ernst, N. Martin, F. Sequenzia, S. Ben Mustapha, F. Lakosi, P. Coucke, A. Gulyban
- 11:20 > Dosimetric comparison of arc planning strategies for radiosurgery of brain arteriovenous malformations
I.T. Kuijper (The Netherlands), F.J. Lagerwaard, J.P. Cuijpers

■ **Poster Discussion 2**■ **PHYSICS: IMPLEMENTATION OF NEW TECHNOLOGY AND METHODS**

10:30 - 11:15 | ROOM A4

Chair: *D. Verellen (Belgium)*Chair: *P. Munck af Rosenschöld (Denmark)*

- > Comparison of dose delivery accuracy in two Leaf motion calculator algorithms in DMLC IMRT
L. Wu (China), B. Huang, B. Rowedder, B. Ma, Y. Kuang
- > Improvement of VMAT delivery accuracy using automated accelerator quality control based on dynamic treatment logs
L. Praestegaard (Denmark), W. Fledelius, C. Jensen
- > Clinical implementation of MRgRT: safety and mechanical quality assurance
O.L. Green (USA), Y. Hu, R. Kashani, H. Li, L. Santanam, H.O. Wooten, S. Mutic
- > Fast rotational IMRT with a 2d binary MLC (2D-bMLC): Dosimetric consequences of intrafraction prostate motion
G. Altenstein (Germany), S. Nill, D. Schmitt, F. Sterzing, U. Oelfke
- > Quantification of gold nanoparticle induced microscopic dose enhancement using protons
Y. Lin (USA), M. Scarpelli, H. Paganetti, J. Schuemann

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SATURDAY, 5 APRIL 2014

- > The stability of motion compensated cone-beam CT (MC CBCT) during radiotherapy for locally advanced lung cancer
A. Van der Reijden (The Netherlands), M. Van Herk, M.M.G. Rossi, J.S.A. Belderbos, J.J. Sonke
- > External-internal correlation models built from Cone-Beam CT for intrafraction tumor tracking
A. Fassi (Italy), E. Gerosa, M. Riboldi, D. Sarrut, G. Baroni
- > Potential clinical benefit of kV image-based MLC tracking for liver SBRT with VMAT: A simulation study
P.R. Poulsen (Denmark), P.J. Keall, T. Ravkilde, E.S. Worm, C. Grau, M. Hoyer
- > Sharing radiotherapy data using semantic web technology: One query for multiple datasets
J. Van Soest (The Netherlands), E. Meldolesi, M.S. Marshall, A. Damiani, A. Dekker, V. Valentini

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■ **Presidential Symposium**

11:45 - 12:20 | AUDITORIUM

Chair: *V. Valentini (Italy)*

11:45 > Innovation and tradition: What first in radiation oncology?

Speaker: *V. Valentini (Italy)*

SP-0101

■ **Award Lecture**■ **EMMANUEL VAN DER SCHUEREN AWARD**

12:20 - 13:00 | AUDITORIUM

Chair: *P. Poortmans (The Netherlands)*

12:20 > Back to the future: synergies between physics and medicine from history to horizon

Speaker: *D.I. Thwaites (Australia)*

SP-0102

■ **Symposium**■ **NOVEL THERAPEUTICS AND EARLY CLINICAL TRIALS**

14:30 - 15:45 | ROOM STRAUSS 1

Targeting of receptor tyrosine kinases and other protein kinases involved in key prosurvival and DNA repair mechanisms is advancing and reached early clinical trial stage in radiotherapy. This symposium will give an update on preclinically and clinically tested novel small molecules for the combined use with radiotherapy. Moreover, the speakers will illustrate their visions and strategies how to run early clinical trials and to complement this with translational research.

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Chair: N. Cordes (Germany)
Co-Chair: I. Skvortsova (Austria)

- 14:30 > Combining PARP inhibitors with radiation and chemotherapy in early phase clinical trials
Speaker: A. Chalmers (United Kingdom)
- 14:48 > DREAMtherapy trial of novel rectal chemoradiotherapy
Speaker: M. Saunders (United Kingdom)
- 15:06 > Current development in antiangiogenic treatment
Speaker: L. Hlatky (USA)
- 15:24 > Dual targeting of pi3k/mTOR
Speaker: E. Fokas (Germany)

Symposium
EU PROJECTS 1

14:30 - 15:45 | ROOM LEHAR 4

Chair: V. Grégoire (Belgium)
Chair: C. Rasch (The Netherlands)

- 14:30 > ARTFORCE: Individualised treatment and prediction of response in head-neck and lung cancer patients
Speaker: O. Hamming-Vrieze (The Netherlands)
- 14:45 > ARTFORCE: Individualised treatment and prediction of response in head-neck and lung cancer patients
Speaker: J. Sonke (The Netherlands)
- 15:00 > Q & A session
- 15:05 > The ANDANTE project: progress towards a re-evaluation of the risk from scattered neutrons during proton therapy
Speaker: A. Ottolenghi (Italy)
- 15:20 > ANDANTE: Second cancers from neutrons following proton therapy: Preliminary epidemiological studies
Speaker: L. Walsh (Germany)

ABS. N°

SP-0103

SP-0104

SP-0105

SP-0106

SP-0107

SP-0108

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SP-0110

SATURDAY, 5 APRIL 2014

Symposium
ELECTIVE NODAL IRRADIATION: BREAST, PROSTATE, RECTUM

14:30 - 15:45 | AUDITORIUM

This symposium will give an overview on the current data and knowledge on indications and open questions for elective LN irradiation in early and pN1 breast cancer and in prostate cancer and will discuss the LN-CTV's in rectal cancer. All talks will review the respective background and rationale for elective LN irradiation, discuss pro's and con's for different approaches, i.e. decisions for or against LN irradiation or for or against specific target volumes. Also, open questions and further directions will be discussed for all three entities.

Chair: M. Krause (Germany)
Co-Chair: K. Kapp (Austria)

- 14:30 > Elective LN irradiation in early breast cancer with pN1 disease
Speaker: B. Offersen (Denmark)
- 14:55 > Which nodes to irradiate in rectal cancer
Speaker: C. Marijnen (The Netherlands)
- 15:20 > Do we need elective nodal irradiation in prostate cancer?
Speaker: V. Khoo (United Kingdom)

ABS. N°

SP-0111

SP-0112

SP-0113

Symposium
NEW INSIGHT INTO PALLIATIVE RADIOTHERAPY FOR BRAIN AND SPINAL CORD METASTASES

14:30 - 15:45 | ROOM STRAUSS 2-3

Symposium will cover the topic of the new approach to the treatment of central nervous system metastases. The role of whole brain radiotherapy as well as stereotactic radiotherapy will be discussed, with focus on role of both methods in comprehensive management of metastatic disease.

A hippocampus sparing is exciting, technology driven possibility to preserve a brain function, however still some controversies exist. Pros and cons as well as the possible future of this method will be presented. Results of recent studies and new insight into treatment of spinal cord metastases will be discussed, with special attention for SBRT.

Chair: J. Kazmierska (Poland)
Co-Chair: E. Maranzano (Italy)

- 14:30 > Whole brain versus SRT - evolving issues
Speaker: U. Ricardi (Italy)
- 14:55 > Hippocampus sparing-is there a future?
Speaker: B. Baumert (Germany)
- 15:20 > Advances in radiotherapy of spinal metastases
Speaker: D. Rades (Germany)

SP-0114

SP-0115

SP-0116

SATURDAY, 5 APRIL 2014

■ Symposium

EVIDENCE FOR THE ORGAN AT RISK CONSTRAINTS WE USE IN BRACHYTHERAPY

14:30 - 15:45 | ROOM SCHUBERT 4-5-6

The most often indication for brachytherapy alone or brachytherapy as boost are cancer of prostate, breast and of gyn area. The symposium will cover for these three indications first detailed description of corresponding OARs and second for each OAR the recommendation for delineation and for best imaging modality. Furthermore the role of quality assurance parameters and which endpoint should be considered will be critically discussed and clinical evidence for recommended constraints will be analyzed. Recommendations for evaluation and reporting of doses in OARs in relation to the recommended constraints for using brachytherapy by cancer of prostate, breast and of gyn area will be outlined in summary at the end of each presentation.

Chair: V. Strnad (Germany)

Chair: P. Georg (Austria)

- 14:30 > Gynaecology
Speaker: L. Tan (United Kingdom)
- 14:55 > Organs at risk constraints in prostate brachytherapy
Speaker: B. Pieters (The Netherlands)
- 15:20 > Breast - brachytherapy: The balance of high doses and protection of organ at risk
Speaker: P. Niehoff (Germany)

ABS. N°

SP-0117

SP-0118

SP-0119

■ Symposium

MOTION MANAGEMENT DURING IMAGE ACQUISITION FOR PLANNING

14:30 - 15:45 | ROOM LEHAR 1-2-3

The internal movement is the most important source of discrepancies in radiation therapy. It affects all the imaging processes before and during the treatment. The imaging phases before treatment mainly concern the delimitation of the target. All useful information coming from multimodalities improves the knowledge of the situation and the form of the tumors and adjacent tissues. It is as important to define the real tumor size as really know the course of its movements. The three modalities, PET, MR and CT acquisition, have specific implementations for artifacts reduction and target position extraction during the respiratory cycles.

Chair: R. Garcia (France)

Co-Chair: H. Deutschmann (Austria)

- 14:30 > Motion registration and compensation in PET imaging
Speaker: R. Bundschuh (Germany)
- 14:55 > Issues in respiratory correlated CT imaging
Speaker: S. Korreman (Denmark)

SP-0120

SP-0121

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- 15:20 > Motion management using MRI
Speaker: M. Stam (The Netherlands)

ABS. N°

SP-0122

■ Symposium

CLINICAL DOSE PAINTING

14:30 - 15:45 | ROOM STOLZ 1-2

The symposium will review the concept, the rationale and recent advances of clinical dose painting. The clinical potential of dose painting will be discussed with respect to which patient groups a benefit applying of the concept could be explored. The limits of technology for imaging and radiation delivery will be discussed, as well as how these limits should be addressed the design of clinical trials. Further, the appropriateness of trial end-points will be discussed, and currently ongoing dose painting trials will be reviewed.

Chair: P. Munck af Rosenschöld (Denmark)

Co-Chair: M. Stock (Austria)

- 14:30 > The clinical evidence for the dose-painting concept
Speaker: X. Geets (Belgium)
- 14:55 > Accounting for uncertainties in imaging and radiation delivery in dose painting trials
Speaker: E. Malinen (Norway)
- 15:20 > Radiation dose painting: considerations in exploring clinical evidence
Speaker: C. Menard (Canada)

SP-0123

SP-0124

SP-0125

■ Symposium

RTT-LED OAR DELINEATION

14:30 - 15:45 | ROOM SCHUBERT 1-2-3

This session provides an overview of three RTT led OAR delineation initiatives from across Europe. By way of background, the importance of OAR delineation with respect to treatment planning, toxicity and clinical trials will be considered. The practicalities of establishing a RTT led delineation service in disease sites such as breast and prostate will be discussed in detail. The speakers will also highlight potential areas for development and future expansion of these programmes. This session will be beneficial to those considering the development of a RTT led delineation service and to those currently working in such services.

Chair: L. Mullaney (Ireland Republic of)

Co-Chair: P. Scherer (Austria)

- 14:30 > RTT-led OAR delineation for breast radiation therapy
Speaker: D. Ledsom (United Kingdom)

SP-0126

SATURDAY, 5 APRIL 2014

14:55 > Radiation therapist led delineation of organs at risk in the head and neck region
Speaker: M. Doherty (Ireland, Republik of)

15:20 > Delineation of organs at risk in the pelvis
Speaker: M. Rossi (The Netherlands)

■ **Poster Discussion 3**

CLINICAL: BIOLOGICAL/CONTOURING

14:30 - 15:15 | ROOM A4

Chair: J. Bussink (The Netherlands)

Chair: S. Roels (Belgium)

Chair: U. Nestle (Germany)

> FDG-PET/CT for prediction and assessment of pathological response to induction CRT for esophageal carcinoma
P. Dirix (Belgium), C. Deroose, P. Nafteux, T. Lerut, J. Coolen, G. De Hertogh, H. Prenen, E. Van Cutsem, J. Haustermans

> Review and meta-analysis of prognostic PET imaging studies: Evidence of publication bias
M.M. Clausen (Denmark), I.R. Vogelius, S.A. Engelholm, A. Kjær, S.M. Bentzen

> Is the perfect agreement among delineators a chimera? Analysis of interobserver variability in H&N and rectal tumors
C. Valentini (Italy), G.C. Mattiucci, L. Boldrini, D. Pasini, G. Chiloiro, M. Balducci, G. Mantini, S. Chiesa, M.A. Gambacorta, V. Valentini

> Impact of the number of available atlases on the performance of adaptive multi-atlas contouring
A. Larrue (United Kingdom), D.M. Gujral, C.M. Nutting, T. Kadir, M. Gooding

> A dosimetric analysis of Dice index and Hausdorff distance in H&N: Which index can evaluate autocontouring software?
G.C. Mattiucci (Italy), L. Placidi, L. Boldrini, L. Azario, D. Piccari, C. Mazzarella, D. Pasini, N. Dinapoli, S. Chiesa, V. Valentini

> Hypoxia imaging with 18F-FAZA-PET-CT for adaptive escalation dose for head and neck cancer: A planning study
S. Servagi Vernet (Belgium), S. Differding, F.X. Hanin, J.A. Lee, A. Bol, D. Labar, V. Gregoire

ABS. N°

SP-0127

SP-0128

PD-0129

PD-0130

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PD-0133

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> Dynamics of tumor hypoxia assessed by 18F-FAZA PET/CT in head and neck and lung cancer patients during chemoradiation
V.R. Bollineni (The Netherlands), M.J.B. Koole, J. Pruim, E.M. Wiegman, H.J.M. Groen, R. Vlasman, G.B. Halmos, J.A. Langendijk, J. Widder, R.J.H.M. Steenbakkers

> Hypoxia imaging and functional MR using combined FMISO PET/MRI in head and neck cancer (HNC)
D. Thorwarth, S. Böke (Germany), S. Leibfarth, H. Schmidt, S. Gatidis, N. Schwenzler, S. Welz, D. Zips

> Prostate tumor delineation using multiparametric MRI: Inter observer variability and pathology validation
P. Steenbergen (The Netherlands), K. Haustermans, F. Pos, R. Oyen, S. Heijmink, L. De Wever, R. Kalisvaart, J. Teertstra, L. Van den Bergh, U. Van der Heide

ABS. N°

PD-0135

PD-0136

PD-0137

■ **Proffered Papers**

INTERDISCIPLINARY 2: PREDICTION AND MODELLING

16:15 - 17:15 | ROOM STRAUSS 1

Chair: S. Supiot (France)

Chair: J. Deasy (USA)

16:15 > Predicting pathological response in locally advanced rectal cancer patients: a «dynamic Radiomics» approach
R. Leijenaar (The Netherlands), S. Carvalho, R. Van Stiphout, E. Rios Velazquez, W. Van Elmpt, G. Nalbantov, J. Buijsen, L. Van de Voorde, H. Aerts, P. Lambin

16:25 > Complementarity of genomic instability & hypoxia indices for predicting prostate cancer recurrence
R. Bristow (Canada), E. Lalonde, M. Milosevic, J. Sykes, T. Van der Kwast, M. Fraser, A. Fotouhi-Ghiam, P. Boutros

16:35 > PREDICT: Model for prediction of survival in localized prostate cancer
L.G.W. Kerkmeijer (The Netherlands), E.M. Monnikhof, I.M. Van Oort, H.G. Van der Poel, G. De Meerleer, M. Van Vulpen

16:45 > Modeling severe late GU toxicity after post-prostatectomy RT with the LQ-model: evidence of a consequential effect
C. Fiorino (Italy), C. Cozzarini, T. Rancati, C. De Antoni, B. Noris Chiorda, P. Mangili, F. Zerbetto, N.G. Di Muzio, R. Calandrino

PD-0135

PD-0136

PD-0137

OC-0138

OC-0139

OC-0140

OC-0141

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16:55 > Radiogenomics consortium meta-analysis of genome wide association studies of prostate radiotherapy late toxicity
S. Kerns (USA), G. Barnett, L. Dorling, L. Fachal, N. Burnet, H. Ostrer, M. Parliament, B. Rosenstein, A. Vega, C. West

ABS. N°

OC-0142

17:05 > Analysis of 5434 patients shows a link between the ATM codon 1853 SNP and the risk of radiation-induced toxicity
C.N. Andreassen (Denmark), G.C. Barnett, S.L. Kerns, A. Vega, C.J. Talbot, K. De Ruyck, M. Parliament, C.A. Koch, S. Gutiérrez-Enríquez, J. Alsner

OC-0143

Joint Symposium

ESTRO-ESMO-ESSO: GUIDELINES ON ANAL CANAL CANCER

16:15 - 17:15 | ROOM LEHAR 4

Chair: C. Belka (Germany)

Chair: G. Poston (United Kingdom)

16:15 > Introducing the ESMO-ESTRO-ESSO clinical guideline on anal cancer
Speaker: C. Belka (Germany)

SP-0144

16:20 > Surgery in squamous cell cancer of the anus
Speaker: P.J. Nilsson (Sweden)

SP-0145

16:35 > New concepts for radiotherapy in anal canal cancers
Speaker: P. Maingon (France)

SP-0146

16:55 > Chemotherapy
Speaker: S. Rao (United Kingdom)

SP-0147

Proffered Papers

CLINICAL 3: BREAST CANCER (1)

16:15 - 17:15 | AUDITORIUM

Chair: H. Bartelink (The Netherlands)

Chair: C. Track (Austria)

16:15 > Improved survival with internal mammary node irradiation: A prospective study on 3,072 breast cancer patients
L.B.J. Thorsen (Denmark), M. Berg, H.J. Brodersen, H. Danø, I. Jensen, J. Overgaard, M. Overgaard, A.N. Pedersen, S.J. Zimmermann, B.V. Offersen

OC-0148

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16:25 > Adjuvant radiotherapy of regional lymph nodes in breast cancer - a meta-analysis of randomized trials
C. Matuschek (Germany), K. Kammers, E. Boelke, W. Budach

ABS. N°

OC-0149

16:35 > New delineation guidelines for the elective lymph node regions in breast cancer radiation therapy
K. Verhoeven (Belgium), C. Kirkove, K. Mahjoubi, V. Remouchamps, L. Veldeman, B. Lengele, P. Poortmans, C. Weltens

OC-0150

16:45 > Advanced treatment techniques for IM-MS LN radiotherapy
K. Erven (Belgium), S. Petillion, W. Crijs, G. Defraene, F. Van den Heuvel, C. Weltens

OC-0151

16:55 > Influence of SIB, hypofractionation and oncological surgery on cosmetic outcome in breast cancer
M. Essers (The Netherlands), J. Lansu, A. Voogd, S. Hol, P.M. Poortmans

OC-0152

17:05 > Phase I-II trial of hypofractionated breast irradiation with SIB: Toxicity and early assessment in 252 patients
E. De Rose (Italy), F. Alongi, S. Pentimalli, C. Iftode, T. Comito, M.C. Campisi, G. Maggi, L.R.E. Liardo, P. Navarra, M. Scorsetti

OC-0153

Proffered Papers

CLINICAL 4: PROSTATE CANCER

16:15 - 17:15 | ROOM STRAUSS 2-3

Chair: R. Valdagni (Italy)

Chair: M. Bolla (France)

16:15 > IGRT for prostate cancer – results from the CHHiP IGRT phase II sub-study
D. Dearnaley (United Kingdom), C.L. Griffin, I. Syndikus, C. Scrase, S. Thomas, O. Naismith, P. Mayles, J. Staffurth, E. Hall, O. N behalf of TMG

OC-0154

16:25 > First toxicity results of a phase II randomised trial of prostate and pelvis versus prostate alone radiotherapy
D. Dearnaley (United Kingdom), C. Griffin, V. Harris, R. Lewis, P. Mayles, C. Scrase, J. Staffurth, I. Syndikus, E. Hall, O. N behalf of the PIVOTAL Trial Management Group

OC-0155

16:35 > Disease-related death correlates with obturator dose in prostate cancer with seminal vesicle invasion (cT3B)
W.D. Heemsbergen (The Netherlands), M.G. Witte, F. Pos, A. Al-Mamgani, J.V. Lebesque, M. Van Herk

OC-0156

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- 16:45 > A novel symptom-based score for late anorectal morbidity in patients treated with radiotherapy for prostate cancer
S. Petersen (Denmark), L. Bentzen, K.J. Emmertsen, S. Laurberg, L. Lundby, M. Hoyer
- 16:55 > Clinical predictors of acute urinary symptoms after radical radiation therapy for prostate cancer
T. Rancati (Italy), V. Carillo, C. Cozzarini, F. Civardi, N. Bedini, C. Degli Esposti, G. Girelli, C. Iotti, R. Valdagni, C. Fiorino
- 17:05 > Hydrogel spacer use for prostate cancer radiotherapy - 12 month toxicity and proctoscopy results
M. Pinkawa (Germany), M.J. Eble, M. Uhl, K. Herfarth, B. Van Triest, R. Kalisvaart, D.C. Weber, R. Miralbell, D.Y. Song, T.L. DeWeese

■ Proffered Papers

BRACHYTHERAPY 2: BREAST AND MISCELLANEOUS

16:15 - 17:15 | ROOM SCHUBERT 4-5-6

Chair: *J. Hammoun-Levi (France)*

Chair: *J. Guinot (Spain)*

- 16:15 > Toxicity and cosmetic results of partial vs whole breast irradiation: 10-year results of a randomized trial
C. Polgár (Hungary), T. Major, Z. Sulyok, Z. Takácsi-Nagy, J. Fodor
- 16:25 > Is it possible to deliver efficacious and high quality APBI treatment outside a clinical trial?
E. Gruszczynska, M. Dabkowski (Poland), A. Kulik, M. Kawczynska, M. Bijok, A. Kasprzowicz, A. Zolciak-Siwinska
- 16:35 > Minimally Invasive Intraoperative Multicatheter Breast Implant (MIOMBI) in breast conservative surgery
M. Cambeiro (Spain), J.J. Aristu, M. Moreno, L. Arbea, F. Martinez-Regueira, N. Rodriguez-Spiteri, A. Olarte, G. Valtueña, J.J. Sola, R. Martinez-Monge
- 16:45 > Towards real-time, personalized breast HDR brachytherapy treatment using 3D printing technology
E. Poulin (Canada), L. Gardi, A. Fenster, J. Pouliot, L. Beaulieu

ABS. N°

OC-0157

OC-0158

OC-0159

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OC-0161

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- 16:55 > ★ GEC-ESTRO Best Junior Presentation ★
Investigation of radiation therapy effectiveness and safety of recurrent head and neck squamous cell carcinoma
V. Rudzianskas (Lithuania), E. Juozaityte, A. Inciura, M. Rudzianskiene, S. Vaitkus, E. Padervinskis
- 17:05 > Is choroidal dose important in plaque brachytherapy for uveal melanoma?
A. De Caluwé (Belgium), E. Van Limbergen

■ Proffered Papers

PHYSICS 3: APPLIED IMAGING

16:15 - 17:15 | ROOM LEHAR 1-2-3

Chair: *M. Partridge (United Kingdom)*

Chair: *T. Beyer (Austria)*

- 16:15 > Automatic tumor delineation using DCE-CT parameter maps in laryngeal and hypopharyngeal carcinoma
J. Oosterbroek (The Netherlands), M.E.P. Philippens, E. Bennink, C.P.J. Raaijmakers, H.W.A.M. De Jong
- 16:25 > 4D motion analysis using retrospective binning of MR images in the abdomen
B. Stemkens, R.H.N. Tijssen (The Netherlands), H.D. Heerkens, B. Denis de Senneville, G.J. Meijer, M. Van Vulpen, J.J.W. Lagendijk, C.A.T. Van den Berg
- 16:35 > Impact of CT-MR registration imprecision on treatment planning for prostate cancer
A. Elen (Belgium), W. Crijns, S. Isebaert, K. Haustermans, F. Maes
- 16:45 > Comparison of [18F]-FMISO, [18F]-FAZA and [18F]-HX4 for hypoxia PET imaging
L.J. Wack (Germany), D. Mönnich, W. Van Elmpt, C.M.L. Zegers, E.G.C. Troost, D. Zips, D. Thorwarth
- 16:55 > Correlation between ex vivo surgical specimen and pre-operative MR imaging for cervical cancer patients
A. Van de Schoot (The Netherlands), P. De Boer, L. Stalpers, C. Rasch, A. Bel
- 17:05 > Quantitative evaluation of 89Zr-labeled Cetuximab on PET/CT imaging: Intra- and interpatient heterogeneity
A.J.G. Even (The Netherlands), W. Van Elmpt, C.M.L. Zegers, M.C. Oellers, W. Vogel, J. Heukelom, O. Hamming-Vrietze, F.M. Mottaghy, F. Hoebbers, P. Lambin

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■ Proffered Papers

PHYSICS 4: ADVANCED TREATMENT PLANNING

16:15 - 17:15 | ROOM STOLZ 1-2

Chair: P. Carrasco de Fez (Spain)

Chair: B. Knäusl (Austria)

- 16:15 > Automated treatment plan generation to evaluate alternative treatment techniques
R. Westendorp (The Netherlands), I. Niehoff, T. Nuver, A. Minken OC-0172
- 16:25 > Development of a beam angle class solution to replace full beam angle optimization in non-coplanar prostate SBRT
L. Rossi (The Netherlands), S. Breedveld, S. Aluwini, B.J.M. Heijmen OC-0173
- 16:35 > Feasibility of dominant intra-prostatic lesions boosting strategies using VMAT and IMPT
P. Andrzejewski (Austria), B. Knäusl, K. Pinker, J. Góra, G. Goldner, P. Georg, S. Polanec, M. Stock, T.H. Helbich, D. Georg OC-0174
- 16:45 > Intensity modulated proton therapy versus various advanced photon techniques in cervical cancer patients
S. Marnitz (Germany), A. Fogliata, G. Nicolini, E. Vanetti, A. Clivio, W. Wlodarczyk, C. Köhler, O. Neumann, V. Budach, L. Cozzi OC-0175
- 16:55 > A comparative study on dose-painting of hypoxia vs. FDG-PET imaging in non-small cell lung cancer
J. Van der Stoep (The Netherlands), A. Even, C. Zegers, M. Oellers, B. Reymen, P. Lambin, E. Troost, W. Van Elmpt OC-0176
- 17:05 > Robustness and volatility of tumour control probability in intensity modulated proton therapy of the prostate
S. Walsh (The Netherlands), E. Roelofs, B. Jones, P. Keuss, D. Georg, F. Verhaegen OC-0177

■ Proffered Papers

RTT 2: NOVEL APPROACHES TO CONTOURING

16:15 - 17:15 | ROOM SCHUBERT 1-2-3

Chair: R. Harris (United Kingdom)

Chair: C. Detienne (Belgium)

- 16:15 > Comparison of five workflows for automatic re-contouring in MIM software for the purpose of adaptive radiotherapy
S.T. Wong (Hong Kong (SAR) China), W.W.K. Fung, G. Chiu, J. Atyeo OC-0178

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- 16:25 > Comparison of PET auto-segmentation of GTV with manual PET-CT and CT/MRI outlining in oropharyngeal cancer patients
B. Berthon (United Kingdom), T. Rackley, C. Marshall, M. Evans, N. Palaniappan, N. Cole, V. Jayaprakasam, E. Spezi OC-0179
- 16:35 > Atlas selection strategies for multi atlas based segmentation algorithm for head and neck radiotherapy
P. Zaffino (Italy), K. Fritscher, M. Peroni, M.F. Spadea, R. Schubert, G. Sharp OC-0180
- 16:45 > Optimization of a novel multi-echo 3D UTE volumetric sequence for tissue segmentation in MRI-only RT planning
G. Perkins (Qatar), M. McGarry, T. Torfeh, R. Hammoud, D. Fierro, N. Al Hammadi OC-0181
- 16:55 > Evaluation of the impact of tumor location and size on different delineation methods using PET/CT for NSCLC
M.C. Lee (Hong Kong (SAR) China), V.W.C. Wu OC-0182

■ Poster Discussion 4

BRACHYTHERAPY

16:15 - 17:00 | ROOM A4

Chair: B. Pieters (The Netherlands)

Chair: F. Siebert (Germany)

- > Initial evaluation of MR and TRUS imaging for pre BT cervical cancer assessment in the frame of MR-based Image Guided BT
M. Federico (Spain), S. Torres Pozas, C.R. Hernandez, E. Magri, I. Ribeiro, J.G. Gonçalves, D. Alonso, B. Pinar, M. Lloret, P.C. Lara PD-0183
- > Diffusion weighted MRI and GTV at time of brachytherapy in locally advanced cervical cancer
S.K. Nielsen (Denmark), L. Fokdal, J. Lindegaard, J.F. Kallehauge, S. Haack, E.M. Pedersen, K. Tanderup PD-0184
- > A novel intrauterine tandem design for HDR-DMBT of cervical cancer
W.Y. Song (USA), D. Han, M.J. Webster, D.J. Scanderbeg, C. Yashar PD-0185
- > Evaluating dose parameters and toxicity in endoluminal brachytherapy for inoperable rectal cancer patients.
L. Velema (The Netherlands), R. Nout, S. Bakuwel, K. Neelis, A. Cats, I. Van Ruiten, M. Ketelaars, C. Marijnen PD-0186

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- > The impact of prostate volume on clinical outcomes in patients with localized prostate cancer treated with HDR boost
E. Vigneault (Canada), P. Després, M.C. Lavallée, A.G. Martin, W. Foster, S. Aubin, L. Beaulieu
- > Validation of the prostate tumorlet model based on multi-institution clinical data
F.A. Siebert, M.S. Anscher, M. Hagan, S. Kaden, D. Todor (USA)
- > US-probe integrated MOSkin detectors for rectal wall in vivo dosimetry in HDR prostate brachytherapy
M. Carrara (Italy), C. Tenconi, M. Borroni, A. Cerrotta, C. Fallai, D. Cutajar, M. Lerch, G. Gambarini, A.B. Rosenfeld, E. Pignoli
- > Traceable calibration chain of 125I Low Dose Rate (LDR) brachytherapy sources
L. Joulaeizadeh, J. De Pooter (The Netherlands), T. Aalbers
- > Establishing universal test cases for benchmarking model-based dose calculations beyond TG-43
F. Ballester (Spain), J. Vijande, Y. Ma, D. Granero, L. Beaulieu

■ Honorary Members Lecture

17:30 - 18:00 | AUDITORIUM

Chair: V. Valentini (Italy)

Chair: P. Poortmans (The Netherlands)

- 17:30 > Innovation of radiation therapy from 3DRT to 4DRT
Speaker: M. Hiraoka (Japan)
- 17:45 > Cobalt-60, carbon ions, nanotechnology and beyond
Speaker: B. Vikram (USA)

ABS. N°

PD-0187

PD-0188

PD-0189

PD-0190

PD-0191

SP-0192

SP-0193

SUNDAY, 6 APRIL 2014

■ Teaching Lecture

INNOVATIVE RADIOTHERAPY, A CHALLENGE FOR HEALTH TECHNOLOGY ASSESSMENT

08:00 - 08:40 | ROOM STRAUSS 1

Chair: S. Magrini (Italy)

- 08:00 > Innovative radiotherapy, a challenge for health technology assessment
Speaker: F. Hulstaert (Belgium)

ABS. N°

SP-0194

■ Teaching Lecture

HOW TO DO PRECLINICAL TESTING OF NEW RADIOSENSITISERS

08:00 - 08:40 | ROOM LEHAR 4

Chair: J. Alsner (Denmark)

- 08:00 > How to do preclinical testing of new radiosensitisers
Speaker: K. Harrington (United Kingdom)

SP-0195

■ Teaching Lecture

MULTI-DISCIPLINARY MANAGEMENT OF RECTAL CANCER

08:00 - 08:40 | AUDITORIUM

Chair: C. Rödel (Germany)

- 08:00 > Multi-disciplinary management of rectal cancer
Speaker: M.A. Gambacorta (Italy)

SP-0196

■ Teaching Lecture

THE ROLE OF RADIOTHERAPY IN MODERN MELANOMA TREATMENT

08:00 - 08:40 | ROOM STRAUSS 2-3

Chair: K. Dieckmann (Austria)

- 08:00 > The role of radiotherapy in modern melanoma treatment
Speaker: L. Bastholt (Denmark)

SP-0197

■ Teaching Lecture

ICRU GUIDELINES FOR GYNAECOLOGICAL BRACHY THERAPY

08:00 - 08:40 | ROOM SCHUBERT 4-5-6

Chair: J.C. Lindegaard (Denmark)

- 08:00 > ICRU guidelines for gynaecological brachytherapy
Speaker: C. Kirisits (Austria)

SP-0198

SUNDAY, 6 APRIL 2014

■ Teaching Lecture

GEOMETRICAL UNCERTAINTIES AND PROTON TREATMENT PLANNING

08:00 - 08:40 | ROOM LEHAR 1-2-3

Chair: T. Lomax (Switzerland)

- 08:00 > Geometrical uncertainties and proton treatment planning
Speaker: M. Schwarz (Italy)

ABS. N°

SP-0199

■ Teaching Lecture

AUTOMATIC MULTICRITERIAL TREATMENT PLANNING AND PARETO NAVIGATION

08:00 - 08:40 | ROOM STOLZ 1-2

Chair: M. Alber (Denmark)

- 08:00 > Automated multi-criterial treatment planning and Pareto navigation
Speaker: S. Breedveld (The Netherlands)

SP-0200

■ Teaching Lecture

ADVANCED RADIOTHERAPY DELIVERY TECHNIQUES: WHAT IS THE CLINICAL RATIONALE?

08:00 - 08:40 | ROOM SCHUBERT 1-2-3

Chair: M. McGarry (Qatar)

- 08:00 > Advanced radiotherapy delivery techniques: What is the clinical rationale?
Speaker: B. O'Sullivan (Canada)

SP-0201

■ Teaching Lecture

STATISTICS AND METHODOLOGY: «DO'S AND DON'TS WITH EXAMPLES»

08:00 - 08:40 | ROOM A4

Knowledge in statistics and methodology is necessary to understand scientific literature and to perform research. This Teaching Lecture will give an overview on basic principles in statistics and methodology and will provide typical examples relevant for research in the field of radiotherapy and oncology.

Chair: A.R. Filippi (Italy)

- 08:00 > Statistics and methodology: «Do's and don'ts with examples»
Speaker: P. Blanchard (France)

SP-0202

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

SUNDAY, 6 APRIL 2014

ABS. N°

■ Multidisciplinary Tumour Board

SESSION 2: BREAST CANCER

08:00 - 08:40 | ROOM STOLZ 0

Moderator: P. Poortmans (The Netherlands)*Panelist:* D. Vordermark (Germany)*Panelist:* P. Dubsy (Austria)*Panelist:* E. Senkus-Konefka (Poland)*Panelist:* T. Helbich (Austria)

■ Symposium

EMERGING NEW TECHNOLOGY FOR RADIATION ONCOLOGY

08:45 - 10:00 | ROOM STRAUSS 1

In this interdisciplinary session innovative technology for future radiation oncology will be introduced by experts in an understandable language. The experts will not only present latest developments but will also address the questions what we can expect for our patients; when the new technology will be available; and what research is need before clinical implementation. Daniela Thorwarth will give a short description of challenges for realization of combined PET/MR in radiation oncology; will discuss the current state and potential applications. Gert Meijer will discuss the rationale of the MRI-Linac, its current status and some applications within the thoracic and abdominal area together with some novel developed MRI techniques for these purposes. Jacques Balosso will report on the principle of monoenergetic X rays extracted from synchrotron radiation, the possibilities of use of photo-electric interactions for therapeutic goal and the present state of clinical experience. Finally, Wolfgang Enghardt will summarize the research activities into Laser-accelerated particle beams.

Chair: D. Zips (Germany)**Co-Chair:** F. Sedlmayer (Austria)

- 08:45 > Combined PET/MR Imaging for Radiation Oncology
Speaker: D. Thorwarth (Germany)

SP-0203

- 09:03 > Online MRI guided 4D-SBRT of thoracic and abdominal tumours
Speaker: G. Meijer (The Netherlands)

SP-0204

- 09:21 > Monoenergetic synchrotron beams: first human experience for therapeutic purpose
Speaker: J. Balosso (France)

SP-0205

- 09:39 > Recent developments on laser-accelerated particle beams
Speaker: W. Enghardt (Germany)

SP-0206

SUNDAY, 6 APRIL 2014

Symposium

TARGET IDENTIFICATION AND NOVEL THERAPEUTICS IN COMBINATION WITH RADIATION AUSTRIAN ACADEMY – CEMM

08:45 - 10:00 | ROOM LEHAR 4

This symposium will focus on the identification of novel targets and therapeutics by high throughput screens and will be held in association with the Research Centre for Molecular Medicine of the Austrian Academy of Science- CeMM. In vitro screens identified novel determinants of drug response, radio-sensitivity and regulators of checkpoints. These findings may have prognostic value or provide targets and means for tumor-specific radiosensitization. New approaches to exploit tumor-specific traits such as hypoxia and DNA repair defects by the use of specific drugs and inhibitors will be also illustrated.

Chair: C. Vens (The Netherlands)

Co-Chair: W. Dörr (Austria)

08:45 > Gene-drug interaction screens in cancer using isogenic cell models
Speaker: S. Nijman (Austria)

SP-0207

09:03 > Loss of function screens to identify novel radiotherapy targets
Speaker: G. Higgins (United Kingdom)

SP-0208

09:21 > Identification of novel checkpoint mechanisms after radiation
Speaker: R. Syljuasen (Norway)

SP-0209

09:39 > Targeting resistant hypoxic cells by exploiting the DNA damage response
Speaker: E. Hammond (United Kingdom)

SP-0210

Debate

THIS HOUSE BELIEVES THAT ADENOCARCINOMA OF THE GE JUNCTION SHOULD BE TREATED WITH PREOPERATIVE CHEMORADIATION

08:45 - 10:00 | AUDITORIUM

Adenocarcinomas of the esophagogastric junction (AGEJ) are considered a separate disease entity with distinct epidemiologic and histologic features. However, multiple classifications are used (Siewert, UICC), and there is a broad variation of therapeutic options for locally advanced disease, including preoperative chemoradiotherapy, definitive chemoradiation, perioperative chemotherapy, and resection followed by postoperative chemoradiation. Several large clinical trials in gastric and esophageal cancer, enrolled a significant proportion of patients with AGEJ. The SWOG-INT 0116 study (20% AGEJ) showed an improved survival by post-operative chemoradiotherapy. The MAGIC study (12% AGEJ) demonstrated a survival benefit of perioperative chemotherapy, while the more recent CROSS study (24% AGEJ) reported a better outcome by preoperative chemoradiation.

This debate will focus on the currently available evidence and provide arguments in favor of/against preoperative chemoradiation in AGEJ.

Chair: M. Verheij (The Netherlands)

Co-Chair: A. De Vries (Austria)

ABS. N°

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08:45 > For the motion
Speaker: K. Haustermans (Belgium)

ABS. N°

SP-0211

09:05 > Against the motion
Speaker: F. Lordick (Germany)

SP-0212

09:25 > For the motion rebuttal
Speaker: K. Haustermans (Belgium)

09:37 > Against the motion rebuttal
Speaker: F. Lordick (Germany)

09:49 > Audience participation

Symposium

SBRT FOR LUNG LESIONS: TOO MUCH, TOO LITTLE?

08:45 - 10:00 | ROOM STRAUSS 2-3

SBRT has become standard of care of patients with limited stage non-small cell lung cancer who are not suitable for surgical resection due to high age and/or comorbidity. Peripheral tumors are relatively simple to handle; most often it is possible to deliver very high doses to peripheral tumors, but are these high doses really needed? Central cases are more complex because of an increased risk of normal tissue complication. This session will deal with patient selection, technical requirements, treatment planning, dose-response relationships and biological modeling in SBRT for early stage lung cancer.

Chair: M. Hoyer (Denmark)

Co-Chair: W. Raunik (Austria)

08:45 > Peripheral lesions: Too much dose?
Speaker: M. Guckenberger (Germany)

SP-0213

09:03 > Central disease – enough knowledge for safe SBRT treatment?
Speaker: A. Bezjak (Canada)

SP-0214

09:21 > Operable lesions: More activities towards new concepts?
Speaker: F. Lagerwaard (The Netherlands)

SP-0215

09:39 > Lung SBRT: Minimum requirements or complete standardisation?
Speaker: C. Hurkmans (The Netherlands)

SP-0216

SUNDAY, 6 APRIL 2014

■ **Symposium****EVIDENCE FOR TUMOUR DOSE RESPONSE IN BRACHYTHERAPY**

08:45 - 10:00 | ROOM SCHUBERT 4-5-6

Chair: E. Van Limbergen (Belgium)**Co-Chair:** T. Knocke-Abulesz (Austria)

08:45 > Gynaecology
Speaker: M. Schmid (Austria)

09:10 > Prostate: Evidence for tumour dose response in brachytherapy
Speaker: A. Henry (United Kingdom)

09:35 > Evidence for a dose-response relationship in breast cancer
Speaker: J.A. Polo Rubio (Spain)

■ **Joint Symposium ESTRO-AAPM****IMAGE GUIDANCE (OR LACK THEREOF) IN PROTON THERAPY**

08:45 - 10:00 | ROOM LEHAR 1-2-3

The session will review and discuss proton-specific tools and image guidance techniques, and what needs to be developed further to fully take advantage of the potential provided by protontherapy. The speakers will discuss 2- and 3-D image guidance with X-rays, the role of proton radiography and 'range probing' for range verification. We'll learn what infrastructure, processes and computational environments are needed to support imaging as a component in the workflow. 4D imaging for treatment planning (4D CT and MRI) and delivery (motion detection and imaging for treatment verification (e.g. 4D PET) will be analysed, as well as recent developments in in-vivo range verification, comparing pros and cons and suggesting what might be the most promising approach(es) moving forward.

Chair: M. Schwarz (Italy)**Chair:** T. Bortfeld (USA)

08:45 > Image guidance in proton therapy clinical practice
Speaker: A. Bolsi (Switzerland)

> Image guidance in proton therapy: Getting it together
Speaker: H. Kooy (USA)

09:20 > «4D» imaging for motion
Speaker: M. Riboldi (Italy)

09:40 > Latest developments in in-vivo dose and range imaging
Speaker: T. Bortfeld (USA)

ABS. N°

SP-0217

SP-0218

SP-0219

SP-0220

SP-0221

SP-0222

SP-0223

SUNDAY, 6 APRIL 2014

■ **Symposium****REAL-TIME DOSE CALCULATION AND PLANNING**

08:45 - 10:00 | ROOM STOLZ 1-2

High speed dose calculation and planning are hot topics, e.g. for speeding up highly accurate (Monte Carlo) dose calculations, for exploration of large and complex treatment plan search spaces, and for on-line adaptive approaches. In this symposium, GPU-, Non-Voxel-based-Broad-Beam-, and Cloud-based approaches for high speed calculations are discussed and examples are presented.

Chair: B. Heijmen (The Netherlands)**Co-Chair:** L. Grevillot (Belgium)

08:45 > GPU-oriented Monte Carlo dose calculations
Speaker: P. Ziegenhein (United Kingdom)

09:10 > Non-voxel-based-broad-beam framework
Speaker: W. Lu (USA)

09:35 > Cloud-based treatment planning and Monte Carlo calculation
Speaker: L. Xing (USA)

■ **Symposium****PRACTICAL IGRT CONSIDERATIONS FOR RTTS**

08:45 - 10:00 | ROOM SCHUBERT 1-2-3

In this session Sabine Kuhn will share her experience with carbon ion treatment with us, a radiation therapy treatment with high potential that is not widely available.

Philipp Scherer will discuss adaptation of the aperture to correct for translations and rotations without movement of the patient. He will discuss the possibilities and the limitations of such a strategy and share clinical experience for prostate.

Felipe Moura will discuss the impact of errors in the steps of radiation therapy and how these errors influence safety margins. He will discuss the impact of corrections strategies on margins for different treatment sites.

Chair: R. De Jong (The Netherlands)**Co-Chair:** R. Freund (Austria)

08:45 > Carbon ion therapy: Establishing a routine image guided workflow
Speaker: S. Kuhn (Germany)

09:10 > Couch and aperture-based correction in IGRT
Speaker: P. Scherer (Austria)

09:35 > Error analysis: From IGRT to margin
Speaker: F. Moura (Portugal)

ABS. N°

SP-0224

SP-0225

SP-0226

SP-0227

SP-0228

SP-0229

SUNDAY, 6 APRIL 2014

■ Symposium

HOW TO CHANGE YOUR PRACTICE: IMPLEMENTING EVIDENCE BASED PRACTICE CHANGES

08:45 - 10:00 | ROOM A4

Introducing new radiotherapy techniques into clinical practice offers the distinct advantage of the certain technique but is accompanied by new challenges and pitfalls in daily routine. This symposium aims at providing an overview of relevant aspects when implementing a new technique and will focus on practical advices especially for young professionals in the field using the example of image-guided radiotherapy.

Chair: S. Rivera (France)**Co-Chair: C. Clark (United Kingdom)**

08:45 > Clinical perspective: Implementation of image-guided brachytherapy techniques in clinical practice
Speaker: P. Petric (Qatar)

SP-0230

09:10 > Physics perspective: Implementation of IGRT protocols in clinical practice
Speaker: M. Stock (Austria)

SP-0231

09:35 > RTT perspective: How to implement new technology for daily clinical use - an RTT experience
Speaker: H. McNair (United Kingdom)

SP-0232

■ Poster Discussion 5

CLINICAL: SARCOMA/PAEDIATRICS/PARTICLE THERAPY

09:00 - 09:45 | ROOM STOLZ 0

Chair: F. Eckert (Germany)**Chair: C.R. Freeman (Canada)**

> 168 patients with skull base chordoma treated with carbon ion irradiation: First long term results
M. Uhl (Germany), M. Matthe, T. Welzel, F. Roeder, A. Jensen, M. Ellerbrock, T. Haberer, K. Herfarth, J. Debus

PD-0233

> Carbon ion radiotherapy for osteosarcoma of the trunk
R. Imai (Japan), T. Kamada

PD-0234

> Combined chemo-radiotherapy in paediatric astrocytary gliomas.
D. Aloï (Italy), G. Timon, G. Vidano, G. Blandino, F. Giannelli, M. Gusinu, M.L. Garrè, C. Milanaccio, S. Barra, R. Corvò

PD-0235

ABS. N°

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ABS. N°

> Evaluation of long-term radiation-induced toxicity in children undergoing radiotherapy for Rhabdomyosarcoma
G. Timon (Italy), D. Aloï, G. Blandino, G. Vidano, F. Giannelli, F. Cavagnetto, A. Garaventa, P. Torielli, S. Barra, R. Corvò

PD-0236

> Surgery and radiotherapy in childhood craniopharyngioma: impact on neuropsychological functions
B. Diletto (Italy), S. Chiesa, D. Chieffo, G.P. Tamburrini, C. Mazzarella, L. De Filippo, D. Marchesano, G.R. D'Agostino, V. Valentini, M. Balducci

PD-0237

> Pancreas-sparing radiotherapy: A feasibility study in paediatric abdominal irradiation
E. Jouglar (France), G. Delpon, L. Campion, A. Mahé, S. Supiot

PD-0238

> Spot-scanning proton therapy for pediatric ependymoma: clinical outcome of 50 patients treated at PSI
C. Ares (Switzerland), F. Albertini, M. Frei-Welte, A. Bolsi, M. Grotzer, R. Schneider, G. Goitein, D.C. Weber

PD-0239

> Valvular disease in long-term childhood cancer survivors treated with potentially cardiotoxic therapy
H.J.H. Van der Pal, L.W.E.M. Van Dijk (The Netherlands), R.B. Geskus, W.E. Kok, E. Sieswerda, F. Oldenburger, C.C.E. Koning, H.N. Caron, L.C.M. Kremer, E.C. Van Dalen

PD-0240

■ Symposium

SAFETY AND QUALITY IN RADIOTHERAPY

10:30 - 11:30 | ROOM STRAUSS 1

An overview of important factors, influencing patient safety and quality of the radiotherapy will be provided. The ultimate parameter is clinical outcome, which can be evaluated using the endpoints of cure and morbidity. The intermediate factors include risk management, in which proactive and reactive measures can be seen. The best known element of risk management is incident reporting, while the learning from the events still need to be promoted. The speakers will highlight the role of multi-professional approach. Short overview of the outcomes of the project ACCIRAD and introduction of the new coming European guidelines will be provided.

Chair: J. Malicki (Poland)**Co-Chair: W. Schmidt (Austria)**

10:30 > Risk management in Radiation Oncology: Report on ACCIRAD
Speaker: C. Prieto Martin (Spain)

SP-0241

10:50 > Link between quality and clinical outcome
Speaker: E. Lartigau (France)

SP-0242

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- 11:10 > The value of a multi-disciplinary approach in quality management
Speaker: M. Van Os (The Netherlands)

■ Proffered Papers

RADIOBIOLOGY 2: NEW TARGET DISCOVERY AND IMMUNOTHERAPY

10:30 - 11:30 | ROOM LEHAR 4

*Chair: G. Higgins (United Kingdom)**Chair: F. Paris (France)*

- 10:30 > Secretome analysis of NSCLC cells: Identification of novel targets for radiosensitization
A. Sharma, S. Bender, O. Riesterer, A. Broggini-Tenzer, M. Pruschy (Switzerland)
- 10:40 > A high-throughput siRNA screen identifies several novel determinants of tumour radiosensitivity
G. Tiwana (United Kingdom), R. Prevo, F. Buffa, D. Ebner, A. Howarth, E. Seraia, K. Chu, L. Durrant, G. McKenna, G. Higgins
- 10:50 > Screening on aided drug-membrane traversal identifies PI3K inhibitors as targets for improved radiosensitization
A. Van Hell, T. Dijkema, M. Verheij (The Netherlands)
- 11:00 > The novel HSP90 inhibitor NW457 sensitizes colorectal cancer cells for an immunogenic form cell death
A. Ernst (Germany), N. Winssinger, C. Belka, K. Lauber
- 11:10 > Immunotherapy with NHS-IL12 in combination with local irradiation to achieve tumour control
F. Eckert (Germany), D. Zips, J. Schmitt, M.A. Krüger, B.J. Pichler, R. Handgretinger, K. Schilbach
- 11:20 > Radiotherapy and L19-IL2 are able to synergize: Long-lasting anti-tumor effects
N.H. Rekers (The Netherlands), C.M.L. Zegers, D. Quaden, N.G. Lieuwes, A. Yaromina, W.T.V. Germeraad, E.G.C. Troost, D. Neri, L. Dubois, P. Lambin

ABS. N°

SP-0243

OC-0244

OC-0245

OC-0246

OC-0247

OC-0248

OC-0249

SUNDAY, 6 APRIL 2014

■ Proffered Papers

CLINICAL 5: RECTAL CANCER (1)

10:30 - 11:30 | AUDITORIUM

*Chair: D. Sebag-Montefiore (United Kingdom)**Chair: A. Franzetti Pellanda (Switzerland)*

- 10:30 > First results of the PETACC-6 randomized phase III trial in locally advanced rectal cancer
K. Haustermans (Belgium), H.J. Schmoll, T. Price, B. Nordlinger, R.D. Hofheinz, J.F. Daisne, J. Janssens, P. Schmidt, H. Reinel, E. Van Cutsem
- 10:40 > The value of postoperative chemotherapy for rectal cancer patients after preoperative(chemo)radiotherapy and TME
A.J. Breugom, C.B.M. Van den Broek, W. Van Gijn, H. Putter, E. Meershoek-Klein Kranenbarg, B. Glimelius, H.J.T. Rutten, L. Pählman, C.A.M. Marijnen (The Netherlands), C.J.H. Van de Velde
- 10:50 > FOLFIRI-bevacizumab and concurrent low dose radiotherapy: Final results of a phase II study
A.G. Morganti (Italy), S. Mignogna, V. Picardi, G. Macchia, F. Deodato, L. Caravatta, S. Cilla, M.A. Gambacorta, G.C. Mattiucci, V. Valentini
- 11:00 > Bevacizumab with chemoradiation in rectal cancer: clinical and translational results of the AXEBEAM trial
M. Verstraete, A. Debucquoy (Belgium), J. Dekervel, J. Van Pelt, G. Chiritescu, K. Dumon, A. D'Hoore, X. Sagaert, E. Van Cutsem, K. Haustermans
- 11:10 > Preoperative chemoradiotherapy with capecitabine and bevacizumab in locally advanced rectal cancer
S.A.J. Hutschemaekers (The Netherlands), A. Cats, J.H.W. De Wilt, S. Vanhoutvin, H.J.T. Rutten, J.J.M.E. Nuyttens, C.J.A. Punt, H. Martijn, G.A.P. Hospers, C.A.M. Marijnen
- 11:20 > A prospective trial of short course radiation followed by FOLFOX chemotherapy for rectal cancer: Support for RAPIDO
P. Parikh (USA), J. Olsen, B. Tan, S. Hunt, R. Myerson

ABS. N°

OC-0250

OC-0251

OC-0252

OC-0253

OC-0254

OC-0255

SUNDAY, 6 APRIL 2014

■ Proffered Papers

CLINICAL 6: STEREOTACTIC RADIOTHERAPY

10:30 - 11:30 | ROOM STRAUSS 2-3

Chair: M. Guckenberger (Germany)

Chair: M. Scorsetti (Italy)

- 10:30 > Long-term result of a prospective phase II trial of medically inoperable stage I NSCLC treated with SBRT
K. Lindberg (Sweden), Nordic SBRT study group, Nordic SBRT study group, Nordic SBRT study group, Nordic SBRT-study group, Nordic SBRT-study group, Nordic SBRT-study group OC-0256
- 10:40 > Stereotactic body radiotherapy in the treatment of stage I non-small cell lung cancer—A population-based study
H.W. Liu (Canada), Z. Gabos, S. Ghosh, H. Lau, M. Kerba OC-0257
- 10:50 > Outcomes and toxicity of stereotactic body radiotherapy for metastatic and recurrent central lung tumors
B. Mou (USA), K.W. Merrell, D.A. Owen, K. Nelson, Y.I. Garces, K.R. Olivier OC-0258
- 11:00 > Towards individualized dose prescription for hypofractionation in liver cancer radiotherapy
L. Wang (USA), J. Uzan, C. Baker, M. Lin, S. Hayes, J. Meyer, C.M. Ma, A.E. Nahum OC-0259
- 11:10 > Stereotactic body radiotherapy (SBRT) in pancreatic cancer: What is the therapeutic window?
T.B. Brunner (Germany), U. Nestle, A.L. Grosu, M. Partridge OC-0260
- 11:20 > Long-term survival after stereotactic body radiotherapy in 321 patients with oligo-metastases
M.M. Fode (Denmark), M. Hoyer OC-0261

■ Proffered Papers

BRACHYTHERAPY 3: GYNAECOLOGY

10:30 - 11:30 | ROOM SCHUBERT 4-5-6

Chair: P. Petric (Qatar)

Chair: D. Berger (Austria)

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- 10:30 > ★ ESTRO-Nucletron Brachytherapy Award ★
Evaluation and comparison of a novel vaginal dose reporting method in 153 cervical cancer patients
H. Westerveld (The Netherlands), A. De Leeuw, K. Kirchheiner, P. Dankulchai, K. Tanderup, C. Kirisits, R. Potter OC-0262
- 10:40 > Brachytherapy vaginal dose de-escalation in locally advanced cervical cancer
S. Mohamed (Denmark), J.C. Lindegaard, A. De Leeuw, I.M. Jürgenliemk-Schulz, R. Pötter, C. Kirisits, K. Tanderup OC-0263
- 10:50 > Impact of inhomogeneity corrected dose calculation on dosimetric quality parameters in gynaecological cases
J. Hofbauer (Austria), N. Nesvacil, A. Sturdza, R. Pötter, C. Kirisits OC-0264
- 11:00 > Using MRI and integrated ultrasound to guide brachytherapy for cervix cancer
S. Van Dyk (Australia), S. Kondalsamy-Chennakesavan, M. Schneider, K. Narayan OC-0265
- 11:10 > Image-guided brachytherapy for cervical cancer patients using intracavitary and interstitial implants
B. Knutsen, L.H. Djupvik (Norway), K. Bruheim, E. Nakken, K. Skipar, K. Sundfør, T.P. Hellebust OC-0266
- 11:20 > Towards 4D image-guided adaptive brachytherapy (IGABT) for locally recurrent endometrial cancer
L. Fokdal (Denmark), K. Tanderup, A. Zizzo, S. Nielsen, L. Rohl, E. Pedersen, G. Ortoft, J.C. Lindegaard OC-0267

■ Proffered Papers

PHYSICS 5: QUARK BASED THERAPY (NEW)

10:30 - 11:30 | ROOM LEHAR 1-2-3

Chair: H. Nyström (Sweden)

Chair: P. Kuess (Austria)

- 10:30 > Uncertainties in PET-based range verification of pristine and spread-out Bragg peaks of clinical proton therapy
J. Liebl (Austria), M. Testa, H.M. Lu, B. Winey, K. Grogg, X. Zhu, G. El Fakhri, H. Paganetti OC-0268
- 10:40 > Neutron spectrum measurements from 250-MeV passively scattered proton therapy
R.M. Howell (USA), E.A. Burgett OC-0269

ABS. N°

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- 10:50 > Dosimetric characterization of low energy protons for intra-operative radiation therapy
B. Mofitah (Saudi Arabia), F. Alrumayyan, S. Aldelaijan, M. Shehadeh, F. Alzorkani, M. Alshabanah, J. Seuntjens, S. Devic **OC-0270** **ABS. N°**
- 11:00 > Production of high quality 11C beams for radiation therapy and PET-CT dose delivery verification
M. Lazzeroni (Sweden), A. Brahme **OC-0271**
- 11:10 > Collimation of spot scanned proton therapy beams to sharpen the lateral edge of uniform dose volumes
F.C. Charlwood (United Kingdom), A.H. Aitkenhead, R.I. MacKay **OC-0272**
- 11:20 > Fast Monte Carlo simulation of proton therapy treatment using an Intel Xeon Phi coprocessor
K. Souris (Belgium), J. Lee, E. Sterpin **OC-0273**

■ Proffered Papers

PHYSICS 6: DOSE CALCULATION

10:30 - 11:30 | ROOM STOLZ 1-2

Chair: A. Ahnesjö (Sweden)

Chair: H. Fuchs (Austria)

- 10:30 > Toward accurate tissue characterization using dual energy CT for particle therapy beam dose calculation
A. Bourque, J. Carrier, H. Bouchard (United Kingdom) **OC-0274**
- 10:40 > Hybrid Monte Carlo dose algorithm for low energy X-rays intra-operative radiation therapy
M. Vidal (Spain), P. Ibáñez, J. Cal González, P. Guerra, J.M. Udías **OC-0275**
- 10:50 > Development of 4D Monte Carlo dose calculation system for intensity modulated dynamic tumor-tracking radiotherapy
Y. Ishihara (Japan), A. Sawada, A. Nakamura, Y. Miyabe, T. Ono, M. Nakamura, S. Itasaka, T. Mizowaki, M. Kokubo, M. Hiraoka **OC-0276**
- 11:00 > A Monte Carlo verification tool for dynamic trajectory radiotherapy
M.K. Fix (Switzerland), D. Frauchiger, L. Henrich, M. Sassowsky, D. Frei, D. Terribilini, P. Manser **OC-0277**
- 11:10 > On the commissioning of Monte Carlo beam models and dose profile corrections on stereotactic photon beams.
P. Papaconstadopoulos (Canada), F. Tessier, A. Syme, J. Seuntjens **OC-0278**

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- 11:20 > Application of dose warping for MR-Linac dose calculation
A. Pfaffenberger (Germany), U. Oelfke **OC-0279** **ABS. N°**

■ Proffered Papers

RTT 3: MEETING THE CHALLENGE OF DOSE REDUCTION USING IGRT

10:30 - 11:30 | ROOM SCHUBERT 1-2-3

Chair: P. Cornacchione (Italy)

Chair: D. Wiinholdt (Denmark)

- 10:30 > CBCT verification of heart position during breath-hold radiotherapy treatment of left-sided breast cancer
M. Bierings (The Netherlands), I. Van de Sande, P. Van Haaren, C. Hurkmans **OC-0280**
- 10:40 > Practical optimisation of kV and CBCT imaging dose
A. Leong (Switzerland), G. Clarkson, S. Lang, M. Zamburlini, F. Cavelaars, C. Winter **OC-0281**
- 10:50 > Optimizing cone-beam CT presets for children to reduce imaging dose illustrated with craniospinal axis
R. De Jong (The Netherlands), E. Lens, M. Van Herk, T. Alderliesten, M. Kamphuis, R. Dávila Fajardo, A. Bel, N. Van Wieringen **OC-0282**
- 11:00 > Dosimetric effect of vagina motion during intensity modulated radiotherapy of postoperative gynaecologic tumors
A. Giraldo Marin (Spain), A. Seoane, E. Toral, M.C. Ruiz, A. Pons, L.M. Arbelaez, R. Vergés **OC-0283**
- 11:10 > Adaptive strategy for stereotactic radiotherapy in prostate cancer: Dose tracking vs. re-optimization
C. Fiandra (Italy), F. Munoz, M. Fusella, A. Guarneri, S. Bartoncini, I. Di Muzio, E. Moretti, A. Magli, R. Ragona, U. Ricardi **OC-0284**
- 11:20 > Is intra-fraction stability of the left breast superior during breath-hold treatment as compared to free breathing?
M. Kamphuis, K. Goudschaal (The Netherlands), M. Frank, R. De Jong, Z. Van Kesteren, A. Bel, N. Van Wieringen **OC-0285**

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■ **Poster Discussion****YOUNG SCIENTISTS 1: HEAD AND NECK AND LUNG**

10:30 - 11:30 | POSTER AREA 1

Chair: P. Blanchard (France)**Chair: J.L. Lopez Guerra (Spain)**

- > Anatomical changes in head and neck patients seen on CBCT, the traffic light protocol
S. Conijn (The Netherlands), O. Hamming-Vrieze, L. Wiersema, P. Remeijer PD-0286
- > Is daily MVCT imaging really required in helical tomotherapy for head & neck cancers? An analysis of 2858 fractions
A. Saha (India), P. Das, S. Chatterjee, R. Achari, I. Mallick PD-0287
- > Compliance and toxicity of the hypoxic radiosensitizer nimorazole in patients with head and neck cancer
M.A.H. Metwally (Denmark), K.D. Frederiksen, J. Overgaard PD-0288
- > Risk of isolated nodal failure for stage III NSCLC treated with selective nodal irradiation using IMRT
H. Martinussen (The Netherlands), B. Reymen, R. Wanders, E. Troost, A. Dingemans, M. Ollers, D. De Ruysscher, P. Lambin, A. Van Baardwijk PD-0289
- > Clinical outcomes in oligometastatic patients treated with SBRT for lung nodules
S. Tubin (Italy), F. Casamassima, C. Menichelli, G. Pastore, A. Fanelli, R. Baldini PD-0290
- > Curative radiation therapy for salivary gland-type primary tracheal cancer
S.W. Seol (Korea Republic of), B.K. Kim, Y.C. Ahn, H. Pyo, D. Oh, H.J. Kim PD-0291

■ **Poster Discussion****YOUNG SCIENTISTS 2: GASTROINTESTINAL AND GYNAECOLOGY**

10:30 - 11:30 | POSTER AREA 2

Chair: F. Cellini (Italy)**Chair: R. Mazeron (France)**

- > Comparison of two postoperative chemoradiotherapy regimens in stage II/III rectal cancer patients
Y. Feng (China), X. Wang, Q. Xiao, W. Wang, S. Wang, Y. Liu, H. Ren, H. Fang, J. Jin, Y. Li PD-0292

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- > Combined trans-arterial chemoembolization and stereotactic body radiation therapy (SBRT) for inoperable HCC
C.L. Chiang (Hong Kong (SAR) China), A.S. Lee, K.K. Choi, C.S. Wong, W.K. Sze, Y. Tung PD-0293
- > Inter- and intrafraction internal organ motion in esophageal cancer patients – the ReShape study
F.P. Peters (The Netherlands), C.A.M. Marijnen, D.A.R.H. Grootenboers, K.J. Neelis, E. Astreinidou, R.T. Zinkstok PD-0294
- > Capecitabine induced cardiovascular toxicities during chemo-radiotherapy for rectal cancer
L. Davidson (United Kingdom), N. Alam, V. Misra, J. Bridson, D. Prescott, C. Arthur PD-0295
- > Pancreatic cancer: Comparison of toxicity of IMRT and 3D-conformal radiotherapy (3D-CRT)
M.I. Bittner (Germany), A.L. Grosu, T.B. Brunner PD-0296
- > Outcomes in locally advanced cervical cancer patients treated radically with/without staging FDG-PET/CT
E. Choong (United Kingdom), S. Rodda, H. Musunuru, H. Thygesen, C. Patel, S. Swift, J. Orton, R. Cooper PD-0297

■ **Poster Discussion****YOUNG SCIENTISTS 3: PROSTATE**

10:30 - 11:30 | POSTER AREA 3

Chair: L. Widesott (Italy)**Chair: M. Pinkawa (Germany)**

- > IMPACT study - Targeted prostate cancer screening for rare germline mutation carriers
C. Mikropoulos (United Kingdom), E. Page, L. Bancroft, N. Taylor, M. Ahmed, R. Eeles PD-0298
- > Risk stratification for intermediate-risk prostate cancer: Are we comparing apples with oranges?
S.W. Wilcox (Australia), T. De Campos Silva, B. Wu, N.J. Aherne, T.P. Shakespeare PD-0299
- > NBN gain is predictive for adverse outcome following image-guided radiotherapy for localized prostate cancer
A. Berlin (Canada), E. Lalonde, G. Zafarana, J. Sykes, W.L. Lam, A. Meng, M. Milosevic, T. Van der Kwast, P.C. Boutros, R.G. Bristow PD-0300

ABS. N°

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- > Redefining high risk localised prostate cancer – A ten-year review of outcomes from external beam radiotherapy
M. Fittall (United Kingdom), J. State, S. Beesley, H. Taylor
- > Necessity and extent of pelvic radiotherapy in cN0 high-risk prostate cancer patients
S. Isebaert (Belgium), P. Dirix, L. Tosco, P. Janssen, S. Joniau, E. Lerut, L. Van den Bergh, R. Oyen, H. Van Poppel, K. Haustermans
- > Elevated C-reactive protein level predicts poor prognosis in prostate cancer patients treated with radiotherapy
E. Thurner (Austria), S. Krenn-Pilko, M. Pichler, A. Gerger, U. Langsenlehner, K.S. Kapp, T. Langsenlehner

■ Poster Discussion

YOUNG SCIENTISTS 4: INTERDISCIPLINARY AND MISCELLANEOUS

10:30 - 11:30 | POSTER AREA 4

Chair: G. Ozyigit (Turkey)

Chair: S. Thörnqvist (Denmark)

- > Individualizing left breast radiotherapy on the basis of patient anatomy
B. Diletto (Italy), G.R. D'Agostino, G.C. Mattiucci, R. Cannà, N. Dinapoli, V. Frascino, L. Nardone, L. Azario, G. Mantini, V. Valentini
- > Randomized prospective medical analysis of technologist repositioning during image-guided radiotherapy
O. Riou (France), O. Lauche, F. Castan, S. Gourgou, J.J. Santini, C. Garenaux, P. Fenoglio, C. Guillaumon, D. Azria
- > Factors influencing urinary incontinence following post-prostatectomy IMRT irradiation. A prospective study
B. Noris Chiorda (Italy), C. Cozzarini, C. Fiorino, A. Briganti, G. Berardi, M. Pasetti, A. Sbalchiero, N. Suardi, F. Zerbetto, N. Di Muzio
- > Improving breast radiotherapy through supported decision-making and automated planning
J.J. Penninkhof (The Netherlands), S. Spadola, S. Breedveld, M.H.A. Baaijens, B.J.M. Heijmen
- > Accuracy of external motion monitoring for internal motion prediction during liver SBRT on a conventional LINAC
E. Worm (Denmark), M. Hoyer, W. Fledelius, P.R. Poulsen

ABS. N°

PD-0301

PD-0302

PD-0303

PD-0304

PD-0305

PD-0306

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- > A population-based model to describe the non-rigid deformation of the CTV for short course RT of rectal cancer
L. Bondar (The Netherlands), B. Raaymakers, M. Burbach, E. Budiarto, J.P. Kleijnen, O. Reerink

■ Poster Discussion

YOUNG SCIENTISTS 5: RTT

10:30 - 11:30 | POSTER AREA 5

Chair: V. Karadza (Croatia)

Chair: T. Katzman (Israel)

- > Can teaching patients with pelvic tumours about correct positioning improve treatment set-up in radiotherapy?
H. Hansen (Denmark), A. Boejen, M. Bjørklund Ellegaard, A. Vestergaard
- > Reproducibility of bladder volume in prostate RapidArc radiotherapy treatment
J. Bento (Portugal), R. Silva, A. Espadinha, F. Banha, D. Silva, I. Lobato, A. Videira, M.I. Antunes, P. Chinita
- > Flattening Filter Free for head and neck and prostate irradiation
L.W. Kool (The Netherlands), A. Bruggeman, F. Van Hofwegen, M. Jeulink, W. Verbakel
- > A novel approach to implement dose-guided ART for HN cases treated with tomotherapy
W. Fung (Hong Kong (SAR) China), G. Chiu, A. Mui
- > Online evaluation of tumor match and need for adaptation for lung cancer patients - Can radiotherapists do the job?
A.B. Rasmussen (Denmark), D.S. Moeller, M.H. Andersen, L. Hoffmann
- > Health related quality of life before radiation therapy for patients with lung cancer
S. Perez-Luque (Spain), J.L. Lopez Guerra, M.J. Ortiz Gordillo, R. Peñalver, J.M. Praena-Fernandez, E. Montero

ABS. N°

PD-0309

PD-0310

PD-0311

PD-0312

PD-0313

PD-0314

PD-0315

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■ Award Lecture

DONAL HOLLYWOOD AWARD

11:45 - 12:00 | AUDITORIUM

Chair: V. Valentini (Italy)

- 11:45 > No prognostic impact of HPV on RT-outcome in advanced non-opharynx cancer - analysis of 1606 DAHANCA patients
P. Lassen (Denmark)

ABS. N°

OC-0316

■ Proffered Papers

HIGHLIGHTS OF PROFFERED PAPERS

12:00 - 12:45 | AUDITORIUM

Chair: D. Zips (Germany)**Chair: C. Fiorino (Italy)**

- 12:00 > Validation of a hypoxia TCP model and dose painting in HNC: Planned interim analysis of a phase II trial
D. Thorwarth (Germany), D. Mönnich, L.J. Wack, C. Pfannenberger, M. Alber, D. Zips, S. Welz
- 12:10 > High-dose-rate brachytherapy as monotherapy for intermediate- and high-risk prostate cancer: Seven-year results
Y. Yoshioka (Japan), O. Suzuki, Y. Nakai, M. Uemura, N. Nonomura, K. Ogawa
- 12:20 > Multi-criteria optimization individualizes treatment plan selection in stage III lung cancer patients
E. Loeters (The Netherlands), J. Politiek, T. Eiland, H. Westendorp, R. Kattevilder, Z. Van Kesteren, A. Minken
- 12:30 > Relationships between pimonidazole immunostaining and gene expression in prostate cancer patients
H.B. Ragnum (Norway), L. Vlatkovic, A.K. Lie, K. Axcrona, C.H. Julin, K.H. Hole, T. Seierstad, H. Lyng

OC-0317

OC-0318

OC-0319

OC-0320

■ Symposium

YOUNG ESTRO ACTIVITIES

13:00 - 14:30 | ROOM A4

In this symposium a report on the latest and currently ongoing young ESTRO activities will be provided. Learn about the experience of ESTRO fellows and exchange programs. Join this symposium to be part of the young ESTRO community, to get involved into young ESTRO activities and to exchange your ideas on future activities.

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Chair: V. Valentini (Italy)**Co-Chair: D. Verellen (Belgium)****Co-Chair: M. Schmid (Austria)**

- 13:00 > Report from the Young Task Force
Speaker: M. Schmid (Austria)
- 13:20 > Experience of ESTRO fellows / exchange programmes
Speaker: B. De Bari (Switzerland)
- 13:40 > Experience of ESTRO fellows / exchange programmes
Speaker: F. Cellini (Italy)
- 14:00 > Proposing mentorship programmes to the YTF
Speaker: D. Gabrys (Poland)

ABS. N°

SP-0321

SP-0322

SP-0323

SP-0324

■ Symposium

CURRENT CHALLENGES IN HADRON THERAPY

14:30 - 15:45 | ROOM STRAUSS 1

Chair: M. Ciocca (Italy)**Co-Chair: U. Mock (Austria)**

- 14:30 > Which 'clinical questions' are, and should be, addressed in hadron therapy?
Speaker: B. Timmermann (Germany)
- 14:55 > Physics and technology challenges in broadening the spectrum of clinical indications
Speaker: T. Lomax (Switzerland)
- 15:20 > Current challenges in radiobiology
Speaker: S. Combs (Germany)

SP-0325

SP-0326

SP-0327

■ Symposium

EU PROJECTS 2

14:30 - 15:45 | ROOM LEHAR 4

Chair: R. Orecchia (Italy)**Chair: R. Pötter (Austria)**

- 14:30 > ACCIRAD: Differences between systems of risk assessment and reporting used in Europe
Speaker: J. Malicki (Poland)

SP-0328

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14:45 > ACCIRAD: European guidelines on risk assesment in radiotherapy - results of expert consensus and final version
Speaker: H. Järvinen (Finland)

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SP-0329

15:00 > ULICE: Clinical cooperation in hadrontherapy born from the ULICE results
Speaker: R. Orecchia (Italy)

SP-0330

■ Symposium

RE-IRRADIATION: NEW HOPES (AND) OLD CONCERNS

14:30 - 15:45 | AUDITORIUM

*Chair: C. Nieder (Norway)**Co-Chair: D.H. Seewald (Austria)*

14:30 > Biology of repair and normal tissue tolerance
Speaker: M. Vozenin (Switzerland)

SP-0331

14:55 > Role of re-irradiation in recurrent brain tumours/malignancies
Speaker: A. Grosu (Germany)

SP-0332

15:20 > Re- irradiation of head and neck cancers – state of the art and future directions
Speaker: H. Langendijk (The Netherlands)

SP-0333

■ Joint Symposium ESTRO-EANM

WHAT'S NEW IN RADIONUCLIDE TREATMENT - COMPETITION OR ADDED VALUE FOR EXTERNAL BEAM RADIOTHERAPY?

14:30 - 15:45 | ROOM STRAUSS 2-3

The joint ESTRO/EANM symposium will give an update and highlight the perspectives on the combined use of radionuclide treatment and percutaneous radiotherapy. The speakers, from both the fields of radiation oncology and nuclear medicine, will report on the present state of such combination treatments and the challenges of dosimetry and radiobiology. They will furthermore illustrate new developments in radionuclide treatment, which are of high interest for radiation oncologists.

*Chair: U. Nestle (Germany)**Chair: W. Oyen (The Netherlands)*

14:30 > Biology: Contrasts and congruences of radionuclide therapy and external beam radiotherapy
Speaker: M. Krause (Germany)

SP-0334

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14:48 > Dosimetry: The worlds of radionuclides and external beams - incongruent and incompatible?
Speaker: G. Sgouros (USA)

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SP-0335

15:06 > Combination of radionuclides and EBRT from the clinical radiotherapy point of view
Speaker: O. Bruland (Norway)

SP-0336

15:24 > Old and new tracers for the combination with EBRT: the clinical nuclear medicine point of view
Speaker: F. Mottaghy (Germany)

SP-0337

■ Symposium

DOSIMETRY IN 3D IMAGE GUIDED ADAPTIVE BRACHYTHERAPY

14:30 - 15:45 | ROOM SCHUBERT 4-5-6

*Chair: Å. Carlsson Tedgren (Sweden)**Co-Chair: J. Hofbauer (Austria)*

14:30 > In vivo dosimetry and its potential for DGRT
Speaker: S. Beddar (USA)

SP-0338

14:55 > Applicator reconstruction using 3D imaging
Speaker: T.P. Hellebust (Norway)

SP-0339

15:20 > New algorithms
Speaker: P. Papagiannis (Greece)

SP-0340

■ Symposium

DOSE CALCULATION AND DOSIMETRY FOR SMALL ANIMAL IRRADIATION

14:30 - 15:45 | ROOM LEHAR 1-2-3

Small animal radiotherapy is a new research field, where the aim is to scale down human radiotherapy to the level of small animals, to perform meaningful experiments which would allow translating the findings back to human radiotherapy. For this, new technology will be discussed to precisely irradiate structures in small animals in an image-guided fashion. Of great importance is the accuracy of the dose calculation and measurement in the specimens. New dose calculation algorithms were developed. Issues of calculation and measuring dose in very small radiation fields will be covered.

*Chair: F. Verhaegen (The Netherlands)**Co-Chair: T. Künzler (Austria)*

14:30 > An introduction of the specific dosimetry problems
Speaker: U. Oelfke (United Kingdom)

SP-0341

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- 14:55 > Challenges in precision small animal dose calculations
Speaker: P. Granton (The Netherlands)
- 15:20 > Microbeam Radiation Therapy: Current status of the MRT PET trial project
Speaker: E. Brauer-Krisch (France)

■ Debate

THIS HOUSE BELIEVES THAT THE STRONG FOCUS ON RADIATION PROTECTION AND SAFETY IS DELAYING / HAMPERING INTRODUCTION OF NEW TECHNOLOGIES / TREATMENT STRATEGIES

14:30 - 15:45 | ROOM STOLZ 1-2

This session will consider the issues around the rapid evolution and availability of new/advanced technologies and techniques in radiotherapy. It will discuss the pace of roll-out of such technology and whether a too cautious and prescriptive approach to radiation protection and safety has limited the speed of implementation of developments into wider clinical practice and hence of their potential benefits to patients. Factors involved include: realistic balancing of risks and risk management; appropriate evidence-based practice guidelines for radiation protection, safety, QA and commissioning and for use of developments; prioritisation of medical physics activities; manufacturers responsibilities as technology evolves, etc.

Chair: D.I. Thwaites (Australia)**Chair: C. Fiorino (Italy)**

- 14:30 > For the motion
Speaker: H. Nyström (Sweden)
- 14:50 > Against the motion
Speaker: R. Garcia (France)
- 15:10 > For the motion rebuttal
Speaker: H. Nyström (Sweden)
- 15:22 > Against the motion rebuttal
Speaker: R. Garcia (France)
- 15:34 > Audience participation

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SP-0342

SP-0343

SP-0344

SP-0345

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■ Symposium
IMPLEMENTATION OF IGRT

14:30 - 15:45 | ROOM SCHUBERT 1-2-3

This symposium session will cover a number of issues relating to the implementation of IGRT from an RTT perspective.

The session will begin with a presentation detailing how IGRT protocols can be developed and will include the RTTs role in this. We then hear about how IGRT offers opportunities for RTTs to extend their roles. This will cover how inter-departmentally and personally this benefits RTTs and will use examples to demonstrate the opportunities the technology presents to us as a profession.

We will move on to discuss the progression from IGRT to ART and the issues regarding re-planning, criteria for re-planning and plan selection will be covered. This will be illustrated using a number of patient examples. The time required for the ART process and associated workflow will be presented for discussion.

Chair: A. Baker (United Kingdom)**Co-Chair: M. Kamper (Austria)**

- 14:30 > Development of IGRT protocols
Speaker: R. De Jong (The Netherlands)
- 14:55 > Extended roles for radiation therapists (RTT's) in IGRT
Speaker: M. Kamphuis (The Netherlands)
- 15:20 > Department wide use of daily IGRT/ART
Speaker: A. Vestergaard (Denmark)

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SP-0346

SP-0347

SP-0348

■ Symposium
OBTAINING GRANTS SUCCESSFULLY

14:30 - 15:30 | ROOM A4

This session aims at providing a comprehensive introduction into the complex topic of grant writing. In a first presentation, current possibilities for European funding options will be summarized. In a second part of the session, tips and tricks necessary for successful application to obtain a first individual grant will be given. The session is especially devoted to young scientists in the field of radiotherapy which have not yet gained personal experience in grant writing.

Chair: D. Thorwarth (Germany)**Co-Chair: J. Bibault (France)**

- 14:30 > Overview of EU funding options
Speaker: T. Gauer (Germany)
- 15:00 > How to write a successful grant application
Speaker: J. Alsner (Denmark)

SP-0349

SP-0350

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■ **Poster Discussion 6****PHYSICS: IMAGING**

14:30 - 15:15 | ROOM STOLZ 0

Chair: M. Van Herk (The Netherlands)**Chair: C. Cavedon (Italy)**

- > Development of a novel regmentation framework using the Jensen Renyi divergence for adaptive radiotherapy
D. Markel (Canada), I.E.N. Issam El Naqa
PD-0351
- > Patient specific tumour profiling using hypoxia PET, metabolic PET and perfusion CT in NSCLC
W. Van Elmpt (The Netherlands), C. Zegers, A. Even, M. Das, M. Oellers, B. Reymen, E. Troost, J.E. Wildberger, D. De Ruyscher, P. Lambin
PD-0352
- > CT substitute derived from MRI for external beam prostate radiotherapy
J. Dowling (Australia), P. Pichler, J. Sun, D. Rivest-Henault, S. Ghose, J. Martin, C. Wratten, P. Stanwell, J. Fripp, P. Greer
PD-0353
- > The 70% of SUVmax threshold on pre radiotherapy PET/CT identifies the site of local recurrence in lung cancer
J. Calais (France), S. Thureau, R. Modzelewski, I. Gardin, B. Dubray, P. Vera
PD-0354
- > [18F]HX4 hypoxia PET imaging gives complementary information to [18F]FDG PET in NSCLC patients
C.M.L. Zegers (The Netherlands), W. Van Elmpt, B. Reymen, A.J.G. Even, E.G.C. Troost, M.C. Ollers, A.D. Windhorst, F.M. Mottaghy, D. De Ruyscher, P. Lambin
PD-0355
- > 18F-FDG PET parameters during radio-chemotherapy to predict tumor recurrence in cervical cancer
G. Roman Jimenez (France), J. Leseur, A. Devillers, J.D. Ospina, O. Acosta, P. Terve, M. Gobeli, V. Lavoué, D. Guillaume, R. De Crevoisier
PD-0356
- > Clinical use of iterative 4D CBCT reconstructions to investigate tumor motion of lung cancer patients
M.L. Schmidt (Denmark), T.S. Sørensen, D.C. Hansen, L. Hoffmann, J. Toftegaard, P.R. Poulsen
PD-0357
- > Improving anatomical mapping of large deformations observed between EBRT and BT for cervical cancer
E.M. Vasquez Osorio (The Netherlands), I.K. Kolkman-Deurloo, M.H. Schuring-Pereira, B.J.M. Heijmen, M.S. Hoogeman
PD-0358

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- > Tumour response: A multiparametric function
A. Lopez Medina, D. Aramburu (Spain), M. Mera, J. Del Olmo, B. Andrade, V. Ochagavia, I. Nieto, M. Salgado, A. Calzado, V. Munoz
PD-0359

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■ **Symposium****SMALL ANIMAL IMAGE GUIDED IRRADIATION**

16:15 - 17:15 | ROOM STRAUSS 1

Chair: U. Oelfke (United Kingdom)**Co-Chair: E. Bozsaky (Austria)**

- 16:15 > Image guidance and treatment planning for a small animal precision irradiation device
Speaker: F. Verhaegen (The Netherlands)
SP-0360
- 17:05 > Pre-clinical irradiators: Advancements and applications
Speaker: D. Jaffray (Canada)
SP-0361
- 17:25 > Biological studies using the X-RAD 225Cx image-guided irradiator at OCI.
Speaker: R.P. Hill (Canada)
SP-0362

■ **Proffered Papers****CLINICAL 7: GYNAECOLOGICAL TUMOURS**

16:15 - 17:15 | ROOM LEHAR 4

Chair: C. Petersen (Germany)**Chair: K. Wurstbauer (Austria)**

- 16:15 > Impact of adjuvant therapy in lymph-node positive vulvar cancer- The AGO-CaRe 1 (Chemo- and Radiotherapy) study
C. Petersen (Germany), L. Woelber, J. Jueckstock, F. Hilpert, P. Neuser, P. Harter, N. De Gregorio, A. Hasenburg, J. Schouli, S. Mahner
OC-0363
- 16:25 > Impact of imaging and pathological biomarkers on survival after chemotherapy of locally advanced cervical cancer
S. Siva (Australia), S. Deb, R. Young, M. Bressel, L. Mileschkin, D. Rischin, D. Bernshaw, S. Fox, R. Hicks, K. Narayan
OC-0364
- 16:35 > FDG-PET predicts recurrence after Irradiation and MRI-Guided adaptive brachytherapy in uterine cervix cancer
F. Cellini (Italy), L. Lutgens, R. Van Stiphout, F. Bakers, A. Krüse, P. Lambin
OC-0365

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- 16:45 > Personalized non-rigid motion management for cervical cancer: Clinical evaluation of a plan of the day protocol
S.T. Heijkoop (The Netherlands), S. Quint, M.L. Bondar, J.W.M. Mens, T.R. Langerak, B. Heijmen, M.S. Hoogeman
OC-0366
- 16:55 > Quality input of an online delineation workshop in advanced stage cervical cancer. Initial results.
E. Rivin del Campo (France), S. Rivera, M. Martínez-Paredes, I. Borget, R. Mazon, M. Palmu, S. Scholl, P. Palacios, E. Deutsch, C. Haie-Meder
OC-0367
- 17:05 > Whole abdominopelvic radiotherapy using IMAT as palliation for chemotherapy-resistant ovarian cancer
K. Vandecasteele (Belgium), A. Makar, P. Tummers, H. Denys, L. Delrue, P. De Visschere, R. Van den Broecke, P. Ost, V. Fonteyne, G. De Meerleer
OC-0368

Joint Symposium

ESTRO-ESMO-ESSO: GUIDELINES ON GASTRIC CANCER

16:15 - 17:15 | AUDITORIUM

Chair: C. Belka (Germany)

Chair: G. Poston (United Kingdom)

- 16:15 > Surgery
Speaker: W. Allum (United Kingdom)
SP-0369
- 16:35 > Radiotherapy
Speaker: M. Verheij (The Netherlands)
SP-0370
- 16:55 > Chemotherapy
Speaker: D. Arnold (Germany)
SP-0371

Proffered Papers

CLINICAL 8: HEAD AND NECK CANCER (2)

16:15 - 17:15 | ROOM STRAUSS 2-3

Chair: J. Giral (Spain)

Chair: K. Skladowski (Poland)

- 16:15 > DAHANCA19: A randomized phase III study of primary (chemo-) radiotherapy and zalutumumab in head and neck carcinomas
J.G. Eriksen (Denmark), C. Maare, J. Johansen, H. Primdahl, J. Evensen, C.A. Kristensen, L.J. Andersen, J. Overgaard
OC-0372

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- 16:25 > An HPV-based predictive model for oropharynx cancer yields more accurate predictions than TNM staging system
E. Hoebens (The Netherlands), E. Rios Velazquez, H.J.W.L. Aerts, M.M. Rietbergen, R.H. Brakenhoff, E.J. Speel, J. Straetmans, B. Kremer, P. Lambin
OC-0373
- 16:35 > High pre-radiotherapy neutrophils are associated with compromised outcomes in HPV-related oropharyngeal cancer
S.H. Huang (Canada), J. Waldron, X.W. Shen, M. Milosevic, L. Tong, M. Truong, B. Perez-Ordóñez, I. Weinreb, W. Xu, B. O'Sullivan
OC-0374
- 16:45 > Hypoxia dose-escalation with chemoradiation in head and neck cancer: planned interim analysis of a randomized study
S. Welz (Germany), C. Pfannenberger, M. Reimold, G. Reischl, P.S. Mauz, D. Zips, M. Alber, C. Belka, D. Thorwarth
OC-0375
- 16:55 > FAZA PET/CT hypoxia imaging in patients with HNSCC treated with radiotherapy: Results from the DAHANCA 24 trial
L.S. Mortensen (Denmark), J. Johansen, J. Kallehauge, H. Primdahl, M. Busk, P. Lassen, S. Jakobsen, J. Theil, M. Nordmark, J. Overgaard
OC-0376
- 17:05 > Carbon ion radiotherapy for adenoid cystic carcinoma of the head and neck
A. Hasegawa (Japan), M. Koto, R. Takagi, H. Ikawa, H. Tsuji, T. Kamada
OC-0377

Proffered Papers

BRACHYTHERAPY 4: PHYSICS

16:15 - 17:15 | ROOM SCHUBERT 4-5-6

Chair: M. De Brabandere (Belgium)

Chair: T. Major (Hungary)

- 16:15 > Report on real-time electromagnetic seed drop position validation for low dose rate brachytherapy
E. Racine (Canada), D. Binnekamp, G. Hautvast, L. Beaulieu
OC-0378
- 16:25 > A novel absorbed dose standard for the calibration of ¹⁹²Ir sources used in high dose rate brachytherapy
M. D'Arenzo (Italy), A.S. Guerra, S. Loreti, C. Caporali, M. Pimpinella, I. Astefanoaei, C. Bolzan
OC-0379
- 16:35 > Tissue identification by dual energy computed tomography for brachytherapy
F. Verhaegen (The Netherlands), M. Gaudreault, G. Landry, L. Beaulieu
OC-0380

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- 16:45 > Effect of metal CT artifact with model-based dose calculation algorithms
B. Reniers (The Netherlands), F. Verhaegen
- 16:55 > Adaptive error detection for brachytherapy: Guidance for decision making during real-time in-vivo dosimetry
G. Kertzscher (Denmark), C.E. Andersen, K. Tanderup
- 17:05 > Validating BRACHYGUIDE: An end-user oriented tool for benchmarking brachytherapy TPS dosimetry beyond TG-43
P. Papagiannis (Greece), E. Pantelis, V. Peppas, V. Lahanas, E. Pappas, C. Loukas

■ Proffered Papers

PHYSICS 7: ROTATIONAL TECHNIQUES

16:15 - 17:15 | ROOM LEHAR 1-2-3

Chair: *W. Verbakel (The Netherlands)*Chair: *G. Kragl (Austria)*

- 16:15 > Development of fully optimised single iteration VMAT class solutions and their clinical application
P.A. Wheeler (United Kingdom), M. Chu, A.R. Mazurek, R.H. Maggs, R. Jadon, J. Staffurth, C.L. Hanna, T. Perrett, D.G. Lewis, A.E. Millin
- 16:25 > A deliverability comparison of equivalent dual-arc VMAT plans generated in two different TPSs
K. Petersson (Sweden), P. Engström, T. Knöös, C. Ceberg
- 16:35 > Dosimetric quality and treatment efficiency of non-coplanar ARC therapy
E. Wild (Germany), M. Bangert, S. Nill, U. Oelfke
- 16:45 > Improving tumour control in NSCLC through functionally-optimised and dose-escalated VMAT
C. Baker (United Kingdom), A. Willett, J. Uzan, P. Jain, C. Eswar, J. Littler
- 16:55 > Fully automated VMAT plan generation for prostate cancer patients
P. Voet (The Netherlands), M.L.P. Dirks, S. Breedveld, A. Al Mamgani, L. Incrocci, B.J.M. Heijmen
- 17:05 > Comparison between conventional and FFF beams for IMAT radiation therapy of various treatment sites
D. Gasic (Denmark), L. Ohlhues, N.P. Brodin, L.S. Fog, T. Pommer, J.P. Bangsgaard, P. Munck af Rosenschöld

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OC-0381

OC-0382

OC-0383

OC-0384

OC-0385

OC-0386

OC-0387

OC-0388

OC-0389

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■ Proffered Papers

PHYSICS 8: ADVANCEMENT IN PLAN OPTIMISATION AND EVALUATION

16:15 - 17:15 | ROOM STOLZ 1-2

Chair: *M. Söhn (Germany)*Chair: *Y. Seppenwoolde (Austria)*

- 16:15 > Inter-fractional robustness of beam angles and margins in scanned carbon treatment of pancreatic tumors
V. Batista (Germany), D. Richter, O. Jaekel, S. Combs
- 16:25 > Improving IMRT planning using the stochastic frontier method
M.C. Gagne (Canada), D. Tremblay, N. Varfalvy, L. Archambault
- 16:35 > Shortening IMPT treatment times by reducing proton energy layers
S. Van de Water (The Netherlands), H.M. Kooy, B.J.M. Heijmen, M.S. Hoogeman
- 16:45 > Can particle beam therapy be improved using helium ions?
- A treatment planning study focusing on pediatric patients
H. Fuchs (Austria), B. Knäusl, K. Dieckmann, D. Georg
- 16:55 > A fast lexicographic optimizer for fully automated multi-objective plan generation
B. Heijmen, R. Van Haveren, P. Voet, S. Breedveld (The Netherlands)
- 17:05 > Evaluating plan quality using data envelopment analysis
J. Simpson (Australia), K.M. Lin, A. Raith, M. Ehrgott, G. Sasso

■ Proffered Papers

RTT 4: USE OF IGRT IN THE EVALUATION OF OPTIMAL PATIENT POSITIONING

16:15 - 17:15 | ROOM SCHUBERT 1-2-3

Chair: *R. Martens (The Netherlands)*Chair: *K.N. Goudschaal (The Netherlands)*

- 16:15 > Evaluation of the positioning accuracy of head and neck patients with/without an additional vacuum cushion
P. Scherer (Austria), M. Kopp, D.A. Hodgson, R.M. Appleyard, F. Wolf, G. Fastner, F. Sedlmayer
- 16:25 > Evaluation of anatomical changes using cone-beam CT during radiotherapy for oesophageal cancer
A. Van Nunen (The Netherlands), M. Van Boxtel, M. Van der Sangen, P. Van Haaren

ABS. N°

OC-0390

OC-0391

OC-0392

OC-0393

OC-0394

OC-0395

OC-0396

OC-0397

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- 16:35 > Managing of field junctions from two CT series in total marrow irradiation with VMAT
P. Mancosu (Italy), P. Navarria, L. Castagna, A. Gaudino, G. Reggiori, V. Palumbo, A. Stravato, F. Lobefalo, M. Scorsetti, S. Tomatis **OC-0398**
- 16:45 > First clinical results of a carina registration correction protocol for locally advanced lung cancer patients
M. Buijs (The Netherlands), F. Koetsveld, J. Belderbos, J.J. Sonke, P. Remeijer **OC-0399**
- 16:55 > Comparison of four different systems for the immobilisation of the head during radiation therapy
B. Goudry (Belgium), H. Van Steen, L. Mommaerts, P. Meijnders, D. Van den Weyngaert, D. Van Gestel **OC-0400**
- 17:05 > Validation of Gated RapidArc treatments delivery using the Electronic Portal Imaging Device
J. Molinier, L. Bedos (France), N. Aillères, D. Azria, P. Fenoglietto **OC-0401**

■ Poster Discussion

YOUNG SCIENTISTS 6: DOSIMETRY AND DOSE MEASUREMENTS

16:15 - 17:15 | POSTER AREA 1

Chair: C. Bert (Germany)

Chair: S. Nill (United Kingdom)

- > Proton range monitoring using prompt gamma camera in clinical configuration
G. Janssens (Belgium), J. Smeets, F. Roellinghoff, D. Prieels, F. Stichelbaut, A. Celani, I. Perali, C. Fiorini, E. Clementel, E. Sterpin **PD-0402**
- > Radiation-induced changes in hepatocyte-specific Gd-EOB-DTPA enhanced MRI: Potential mechanism
C. Richter (Germany), J. Seco, D.G. Duda, T. Bortfeld **PD-0403**
- > Tomographic reconstruction of regular and irregular fields by means of optical scintillating fiber layer
M.F. Spadea (Italy), A. Gallo, F. Amato, S. Scaramuzzino, L. Lamanna **PD-0404**
- > Determination of reference levels for quality assurance of flattening filter free beams
E. Vanetti (Switzerland), A. Clivio, M.F. Belosi, L. Cozzi, G. Nicolini, G. Bolard, P. Fenoglietto, H. Krauss, A. Fogliata **PD-0405**

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- > Three-point method for IMRT verification with radiochromic film dosimetry without previous calibration
P. Gallego (Spain), F. San Miguel, R. Polo, R. García, R. Ayala, R. Sendón **PD-0406**
- > Improving safety in radiotherapy: The implementation of the Global Risk Analysis method
R. Mazon (France), N. Aguiñi, E. Rivin del Campo, A. Baudré, I. Dumas, S. Lopes da Silva, E. Deutsch, D. Lefkopopoulos, J. Bourhis **PD-0407**

■ Poster Discussion

YOUNG SCIENTISTS 7: DOSE CALCULATION AND TREATMENT PLANNING

16:15 - 17:15 | POSTER AREA 2

Chair: L.B. Hysing (Norway)

Chair: T. Gauer (Germany)

- > Recalculating AAA plans with Acuros XB for oesophageal cancer - are we getting closer to the «truth»?
S. Padmanaban (United Kingdom), A. Walsh, S. Warren, M. Partridge, M.A. Hawkins **PD-0408**
- > Dosimetric considerations to determine the optimal technique for localized prostate cancer
P. Kuess (Austria), D. Georg, J. Hopfgartner, J. Gora, G. Kragl, D. Berger, G. Goldner, P. Georg **PD-0409**
- > Multi centre planning study on flattening filter free beams for SBRT lung cancer treatment
C.R. Hansen (Denmark), J.R. Sykes, J. Barber, R. Bromley, S. Fisher, M. Bailey, C. Brink, D. Thwaites **PD-0410**
- > Trade-offs between PTV dose homogeneity and OAR sparing: Influence of different planning protocols
J.P. Tol (The Netherlands), M. Dahele, P. Doornaert, B.J. Slotman, W.F.A.R. Verbakel **PD-0411**
- > Combined FiF+ Tangent-to-tangents VMAT breast SIB technique: Clinical introduction of an optimal class solution
A. Gulyban (Belgium), S. Cucchiaro, M. Mathot, C. Ernst, N. Martin, F. Sequenzia, S. Ben Mustapha, P. Coucke, F. Lakosi **PD-0412**
- > Calculation of microdosimetric data due to subcellular compartment sizes determined from histological samples
C.M. Poole (Australia), A. Ahnesjö, S. Enger **PD-0413**

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■ Poster Discussion

YOUNG SCIENTISTS 8: FUNCTIONAL IMAGING

16:15 - 17:15 | POSTER AREA 3

Chair: E. Troost (The Netherlands)

Chair: D. Monnich (Germany)

- > Tracer kinetic model selection for dynamic contrast-enhanced MRI of locally advanced cervical cancer
L. Kallehauge (Denmark), S. Haack, K. Tanderup, J.C. Lindegaard, S. Mohamed, E.M. Pedersen, L. Fokdal, T. Nielsen
PD-0414
- > Automatic delineation of tumor volumes by co-segmentation of hybrid PET/MRI data
S. Leibfarth (Germany), C. Siegel, H. Schmidt, N. Schwenzer, D. Zips, D. Thorwarth
PD-0415
- > Patient modelling in head and neck hyperthermia treatment planning: is CT-based auto-segmentation sufficient?
R.F. Verhaart (The Netherlands), V. Fortunati, F. Adibzadeh, G.M. Verduijn, J.F. Veenland, T. Van Walsum, M.M. Paulides
PD-0416
- > Correlation of pulmonary radioresponsiveness assessed during and post radiotherapy for NSCLC
U. Bernchou (Denmark), T. Schytte, A. Bertelsen, S.M. Bentzen, O. Hansen, C. Brink
PD-0417
- > Development of a software platform for evaluating automatic PET segmentation methods
B. Berthon (United Kingdom), E. Spezi, C.R. Schmidlein, A. Apte, P. Galavis, H. Zaidi, E. De Bernardi, J.A. Lee, A. Kirov, I.NC. Other contributors
PD-0418
- > Kilo voltage x-ray visibility and artifact quantification for 2D & 3D imaging of a new liquid fiducial marker for IGRT
J. Bengtsson Scherman (Denmark), R.I. Jølck, T.L. Andersen, P. Munck af Rosenschöld
PD-0419

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■ Poster Discussion

YOUNG SCIENTISTS 9: BRACHYTHERAPY: GYNAECOLOGY AND PROSTATE

16:15 - 17:15 | POSTER AREA 4

Chair: N. Nesvacil (Austria)

Chair: N. Tselis (Germany)

- > Effect of vaginal packing (VP) on vagina and OAR dose in 337 consecutive cervical cancer brachytherapy applications
M. Federico (Spain), S. Torres Pozas, B. Pinar, M. Lloret, M.A. Cabezón, M.A. García Bello, M.D. Rey Baltar, P. Fustero, R. Martín Oliva, P.C. Lara
PD-0420
- > Brachytherapy planning techniques for cervical cancer as part of the INTERLACE Trial
P. Diez (United Kingdom), J. Conibear, M. McCormack
PD-0421
- > 3D Image guided adaptive brachytherapy for locally advanced vaginal cancer. Outcome and dose-volume parameters.
A.R. Zizzo (Denmark), J. Lindegaard, K. Tanderup, S.K. Nielsen, L. Røhl, E.M. Pedersen, L. Fokdal
PD-0422
- > Impact of technology and learning curve on migration and seed loss in permanent prostate implants
S. Aubin (Canada), A.G. Martin, W. Foster, E. Vigneault, L. Beaulieu
PD-0423
- > MR- guided and tumor-targeted salvage HDR brachytherapy for locally recurrent prostate cancer
T. Pulvirenti (Canada), P. Chung, G. Morton, A. Rink, J. Lee, K. Brock, A. Simeonov, J. Abed, G. O'Leary, C. Ménard
PD-0424
- > Focal therapy to prostatic tumour lesion using LDR- or HDR brachytherapy technique
S. Rylander (Denmark), D. Polders, M. Steggerda, L. Moonen, K. Tanderup, U.A. Van der Heide
PD-0425

ABS. N°

■ Poster Discussion

YOUNG SCIENTISTS 10: RADIOBIOLOGY

16:15 - 17:15 | POSTER AREA 5

Chair: P. Span (The Netherlands)

Chair: G. Borst (The Netherlands)

- > Homologous recombination repair deficient tumor cells exhibit increased radiosensitization by PARP inhibition
F. Hageman (The Netherlands), C.V.M. Verhagen, A. Di Carli, M.J. O'Connor, J. Jonkers, M. Verheij, M. Van den Brekel, C. Vens
PD-0426

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- > A pharmacodynamic assay to assess the radiosensitizing potential of PARP inhibitors in clinical trials
R. De Haan (The Netherlands), D. Pluim, B. Van Triest, J.H.M. Schellens, M. Verheij, C. Vens
- > Targeting HSP90 with the novel inhibitor NW457 attenuates radioresistance of human glioblastoma cells
L. Kinzel (Germany), K. Seidl, N. Winssinger, A.A. Friedl, C. Belka, K. Lauber
- > Combining chemoradiation with COX-2 inhibitors in rectal cancer: clinical and translational data of a phase II study
A. Debucquoy (Belgium), E. Van Cutsem, K. Geboes, F. Penninckx, A. D'Hoore, K. Haustermans
- > Studying the effect of radiation on vascular function and tumor microenvironment using intravital imaging
A. Maeda (Canada), J. Bu, E. Chen, R.S. DaCosta
- > HIF1 signaling in aggressive hypoxic cervical tumors
C.S. Fjeldbo (Norway), C.H. Julin, E.K. Aarnes, G.B. Kristensen, R. Holm, H. Lyng

ABS. N°

PD-0427

PD-0428

PD-0429

PD-0430

PD-0431

■ Award Lecture

GEC-ESTRO IRIIDIUM 192 AWARD

17:30 - 18:00 | AUDITORIUM

17:30 **Chair: P. Hoskin (United Kingdom)**

- 17:32 > André Wambersie: from Paris system to ICRU 88, a close ally for Brachytherapy
Speaker: *E. Van Limbergen (Belgium)*

SP-0432

- 17:55 > Awardee: *A. Wambersie (Belgium)*

■ Award Lecture

COMPANY AND ACADEMIC AWARD LECTURES

18:00 - 18:30 | AUDITORIUM

Chair: V. Valentini (Italy)**Chair: D. Zips (Germany)****Chair: C. Fiorino (Italy)**

- 18:00 > ★ ESTRO-Accuray Award ★
Real time prostate gland motion and deformation during cyberknife stereotactic body radiotherapy
D. Gupta (India)

SP-0433

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- 18:10 > ★ ESTRO-Varian Award ★
PET imaging for characterization of head and neck tumours
B. Hoeben (The Netherlands)
- 18:20 > ★ ESTRO-Jack Fowler University of Wisconsin Award ★
Real-time dose reconstruction during volumetric modulated arc therapy with dynamic MLC tracking
T. Ravkilde (Denmark)

ABS. N°

SP-0434

SP-0435

MONDAY, 7 APRIL 2014

■ Teaching Lecture

THE CONCEPT OF ADAPTIVE RADIOTHERAPY (ART)

08:00 - 08:40 | ROOM STRAUSS 1

Chair: G.M. Cattaneo (Italy)

08:00 > The concept of adaptive radiotherapy (ART)
Speaker: J. Sonke (The Netherlands)

ABS. N°

SP-0436

■ Teaching Lecture

NOVEL DEVELOPMENTS IN FUNCTIONAL IMAGING FOR ONCOLOGY

08:00 - 08:40 | ROOM SCHUBERT 4-5-6

Chair: K. Haustermans (Belgium)

08:00 > Novel developments in functional imaging for oncology
Speaker: M. Hacker (Austria)

SP-0437

■ Teaching Lecture

IMAGING BIOMARKERS TO MEASURE TUMOUR OXYGENATION: TOWARDS CLINICAL APPLICATION IN RADIATION ONCOLOGY

08:00 - 08:40 | ROOM LEHAR 4

Chair: J. Kaanders (The Netherlands)

08:00 > Imaging biomarkers to measure tumour oxygenation: towards clinical application in radiation oncology
Speaker: B. Gallez (Belgium)

SP-0438

■ Teaching Lecture

HYP0-FRACTIONATION FOR EARLY BREAST CANCER

08:00 - 08:40 | AUDITORIUM

Chair: B. Offeren (Denmark)

08:00 > Hypo-fractionation for early breast cancer
Speaker: J.R. Yarnold (United Kingdom)

SP-0439

■ Teaching Lecture

METHODOLOGY OF MODERN TRIALS IN RADIATION ONCOLOGY: 5 FOUNDATIONAL PRINCIPLES

08:00 - 08:40 | ROOM STRAUSS 2-3

Chair: R. Suwinski (Poland)

08:00 > Methodology of modern trials in Radiation Oncology: 5 foundational principles
Speaker: T. Maughan (United Kingdom)

SP-0440

MONDAY, 7 APRIL 2014

■ Teaching Lecture

TREATMENT PLANNING TECHNIQUES TO HANDLE GEOMETRICAL AND ANATOMICAL UNCERTAINTIES: STATE OF THE ART

08:00 - 08:40 | ROOM LEHAR 1-2-3

Chair: M. Van Herk (The Netherlands)

08:00 > Treatment planning techniques to handle geometrical and anatomical uncertainties: State of the art
Speaker: M. Söhn (Germany)

ABS. N°

SP-0441

■ Teaching Lecture

DOSIMETRY OF SMALL FIELDS: PRESENT STATUS AND FUTURE GUIDELINES BY IAEA

08:00 - 08:40 | ROOM STOLZ 1-2

Chair: P. Andreo (Sweden)

08:00 > Dosimetry of small fields: Present status and future guidelines by IAEA
Speaker: H. Palmans (United Kingdom)

SP-0442

■ Teaching Lecture

CURRENT STATUS OF PALLIATIVE RADIATION THERAPY

08:00 - 08:40 | ROOM SCHUBERT 1-2-3

Chair: M. Coffey (Ireland Republic of)

08:00 > Current status of palliative radiation therapy
Speaker: J.W. Leer (The Netherlands)

SP-0443

■ Multidisciplinary Tumour Board

SESSION 3: HEAD AND NECK CANCER

08:00 - 08:40 | ROOM A4

Moderator: V. Grégoire (Belgium)

Panelist: N. Dinapoli (Italy)

Panelist: H. Mehanna (United Kingdom)

Panelist: L. Licitra (Italy)

Panelist: S. Nemeč (Austria)

■ Joint Symposium ESTRO-ESR

ADAPTIVE RADIOTHERAPY TO SHRINKING TUMOURS I

08:45 - 10:00 | ROOM STRAUSS 1

The session will focus on several challenges/controversies regarding ART strategies when significant tumour shrinkage occurs.

The first presentation will discuss imaging methods for pre-surgery tumour response, imaging-based baseline predictors, timing of assessment and of maximum response. The second lecture will focus on

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the risk of underdosing microscopic disease extensions with highly conformal techniques for lung cancer, introducing a model to predict the risk of MDE occurrences from pre-treatment images, discussing different types of shrinkage.

A short overview of strategies for adaptive planning focusing on several technical/physics pitfalls and challenges will follow (technical limitations, margins/dose description, deformable registration and dose accumulation).

Chair: C. Fiorino (Italy)

Chair: L. Bonomo (Italy)

08:45 > MRI and the use of ART in rectal cancer
Speaker: G. Brown (United Kingdom)

ABS. N°

SP-0444

09:10 > Risk of missing sub-clinical disease in NSCLC
Speaker: J. Belderbos (The Netherlands)

SP-0445

09:35 > Challenges in adaptive planning
Speaker: D. Verellen (Belgium)

SP-0446

■ Symposium

DEFINING THE NEED FOR RADIOTHERAPY / PROVISION

08:45 - 10:00 | ROOM SCHUBERT 4-5-6

This session focuses on resource needs for radiotherapy, on the negative impact of unmet needs and how to address this.

The key variables and sources to use when defining the needs will be illustrated for Europe through the experience of the ESTRO-HERO project.

One consequence of unmet needs is the creation of waiting lists. The adverse effects on local control and the social repercussions of delaying radiotherapy will be reviewed.

In order to avoid these negative consequences, the Danish clinical oncology society has worked towards standardisation and fast track systems for diagnosis and treatment of cancer. Examples from head and neck cancer will be shown.

Lastly, the Dutch radiotherapy society has developed a system to forecast radiotherapy resource needs and align capacity planning to these needs. Their 20-year experience will be documented, along with potential implications of changing radiotherapy practice.

Chair: Y. Lievens (Belgium)

Co-Chair: U. Ricardi (Italy)

08:45 > Radiotherapy in Europe: An unmet need?
Speaker: J.M. Borras (Spain)

SP-0447

09:03 > The clinical impact of waiting lists for radiotherapy
Speaker: W. Mackillop (Canada)

SP-0448

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09:21 > Waiting times, standardization and fast track systems – The Danish experience
Speaker: C. Grau (Denmark)

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SP-0449

09:39 > Optimise resources to decrease waiting times
Speaker: P. Vos (The Netherlands)

SP-0450

■ Symposium

THE IMPORTANCE OF MACRO-AND MICRO-ENVIRONMENTS – TUMOUR METABOLISM AND MORE

08:45 - 10:00 | ROOM LEHAR 4

Chair: M. Pruschy (Switzerland)

Co-Chair: T. Seppi (Austria)

08:45 > DNA damage response and tumour metastasis
Speaker: B. Xu (USA)

SP-0451

09:03 > Lactate transport inhibition as a new anticancer strategy to combine with radio- and chemotherapy
Speaker: O. Feron (Belgium)

SP-0452

09:21 > Vascular remodeling during radiation
Speaker: S. Supiot (France)

SP-0453

09:39 > Targeting metabolism to improve radiotherapy
Speaker: M. Busk (Denmark)

SP-0454

■ Joint Symposium ESTRO-ASTRO

CURRENT CHALLENGES IN RADIATION THERAPY FOR BREAST CANCER

08:45 - 10:00 | AUDITORIUM

The field of breast cancer as a whole and radiation oncology in particular is evolving rapidly. In this session, we will provide an update on 4 challenging topics.

So-called oncoplastic surgical techniques have been introduced to facilitate the applicability of breast conserving treatment in situations where this was not possible in the past because of an anticipated unacceptable outcome - but what is its importance for radiation oncology?

The interest in locoregional treatments has increased after the EBCTCG meta-analyses and the presentation of more recent trials. In view of the ongoing personalisation of cancer treatment and the interaction between tumour, patient and treatment related factors, 2 particular fields will be discussed: locoregional management for triple negative breast cancer and after primary systemic treatment. The possible drawback of increasing the irradiation fields to include the regional lymphatics and thereby delivering possibly a dose to the heart will be reviewed extensively.

Chair: V. Valentini (Italy)

Chair: P. Poortmans (The Netherlands)

Chair: B. Haffty (USA)

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- 08:45 > The impact of oncoplastic surgery on volume delineation and side effects
Speaker: P. Poortmans (The Netherlands) **SP-0455** **ABS. N°**
- 09:03 > Locoregional management for triple negative breast cancer
Speaker: B. Haffty (USA) **SP-0456**
- 09:21 > Is there a lower limit for radiation dose when avoiding cardiac side effects?
Speaker: C. Petersen (Germany) **SP-0457**
- 09:39 > Management of the regional lymph nodes after primary systemic treatment
Speaker: E. Strom (USA) **SP-0458**

Symposium**PERSONALISED RADIATION THERAPY – BIOMARKERS, TRIAL DESIGN, PREVAILING CONCEPTS**

08:45 - 10:00 | ROOM STRAUSS 2-3

- 1) Biomarker-driven personalised radiation therapy - predictive molecular signatures in an adaptive multimodal therapy course - molecular targeting for the modification of radiation response - next-generation clinical trials
- 2) Trial design in personalised radiation therapy - multiplicity and complexity - targeting of tumour hypoxia as a model-of-concept - the comprehensive early-phase trial design - trial outcome data, including tolerability and response biomarkers
- 3) Conformal, tailored and adaptive radiation oncology in the molecular biology and functional imaging era - decision-supportive tools in knowledge-based oncology - the impact of molecular biology on clinical treatment decisions * the impact of functional imaging on clinical treatment decisions

Chair: A.H. Ree (Norway)**Co-Chair: H. Geinitz (Austria)**

- 08:45 > Biomarker-driven personalised radiation therapy
Speaker: C. Rödel (Germany) **SP-0459**
- 09:10 > Trial design in personalised radiation therapy - multiplicity and complexity
Speaker: A.H. Ree (Norway) **SP-0460**
- 09:35 > Conformal, tailored, and adaptive radiation oncology in the molecular biology and functional imaging era
Speaker: V. Valentini (Italy) **SP-0461**

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■ INTERDISCIPLINARY WITH RADIOBIOLOGY FOCUS

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- Symposium**
QA STRATEGIES FOR TRACKING AND GATING
08:45 - 10:00 | ROOM LEHAR 1-2-3
Gating and tracking strategies are rapidly being incorporated in patient's treatments in Radiation Therapy. This symposium will focus on Quality Assurance strategies for motion management techniques both in imaging for planning and also during treatment. Motion monitoring, gating and tracking will be discussed. The learning objectives covered are:
- To understand the issues related to motion management.
 - To provide a comprehensive overview of QA strategies for motion control.
 - To review the concept of surrogacy and the potential limitations of different systems.
 - To understand the need of temporal coherence between imaging modalities and beam delivery techniques.
 - To discuss the aim and frequency of different Quality Controls.
- Chair: N. Jornet (Spain)**
Co-Chair: P. Steiner (Austria)

- 08:45 > Motion management QA: From imaging to treatment delivery
Speaker: C. Cavedon (Italy) **SP-0462**
- 09:10 > Commissioning and periodic QA strategies for gating
Speaker: M. Aznar (Denmark) **SP-0463**
- 09:35 > Commissioning and periodic QA strategies for tracking
Speaker: C. Garibaldi (Italy) **SP-0464**

Symposium**ADVANCES IN DOSIMETRY**

08:45 - 10:00 | ROOM STOLZ 1-2

The symposium will review the recent advances in plastic scintillation detectors and in synthetic diamond detectors. Their application in small field dosimetry would be presented. The use of scintillating materials for 2D and 3D dosimetry would be discussed. The determination of detector perturbation factors and their importance for relative dosimetry would be presented. At the end of the symposium the need for 3D dosimetry would be stressed along with the recent advances in gel dosimetry read-out systems.

Chair: E. Gershkevitch (Estonia)**Co-Chair: J. Izewska (Austria)**

- 08:45 > Advances in plastic scintillation detectors dosimetry
Speaker: L. Beaulieu (Canada) **SP-0465**
- 09:03 > Determination of detector perturbation factors for relative dosimetry
Speaker: A. Scott (Australia) **SP-0466**

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- 09:21 > Advances in synthetic diamond detectors dosimetry
Speaker: M. Pimpinella (Italy)
- 09:39 > Revisiting gel dosimetry. Is there still a need for elaborate 3D-detectors?
Speaker: S. Back (Sweden)

■ Symposium

PALLIATIVE CARE: A MULTIDIMENSIONAL APPROACH

08:45 - 10:00 | ROOM SCHUBERT 1-2-3

Palliative care is comfort care given from the time of diagnosis and which continues throughout cancer treatments and beyond. During this symposium, speakers will expose different aspects that have been put into place in order to improve and optimize the management of palliative patients. The development of a fast-track radiotherapy schedule has allowed patients suffering from vertebral metastasis to be treated using a 'one stop-shop' technique. While RTT-led palliative care have allowed for the development of new pathways in radiation therapy resulting in improvements for the patients, such as diminished waiting times, and extended RTT competencies and roles. Finally, rehabilitation strategies can support patients' wellbeing and quality of life through the establishment of preventive and progressive adaptations.

Chair: A. Vaandering (Belgium)**Co-Chair: N. Metz (Austria)**

- 08:45 > The development of a one-stop-shop palliative radiotherapy treatment using MR and CBCT
Speaker: E. Brunenberg (The Netherlands)
- 09:10 > Rehabilitation in palliative care
Speaker: C. Payne (United Kingdom)
- 09:35 > Consultant RTT-led care in palliative radiation therapy
Speaker: N. Cornelius (United Kingdom)

■ Poster Discussion 7

RTT: BREAST RADIATION THERAPY - TREATMENT PREPARATION

09:00 - 09:45 | ROOM A4

Chair: M. Mast (The Netherlands)**Chair: M. Kamphuis (The Netherlands)**

- > PET-CT SIM: Radiation Therapist (RT) led protocol development and clinical implementation into routine practice
M. Kearney (Qatar), M. McGarry, S. Paloor, R. Hammoud, E. Rajeh, M. Riyas, S. Divakar, P. Petric, N. Al-Hammadi, G. Perkins

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- > Comparing the reproducibility of respiratory pattern during SBRT verses 4DCT
E. Voorjans Leconte (Switzerland), S. Wipf, S. Lang, A. Stüssi, O. Riesterer, C. Winter
- > MRI integration into treatment planning of the head and neck: can we avoid patient immobilization?
V. Fortunati (The Netherlands), R.F. Verhaart, F. Angeloni, A. Van der Lugt, W.J. Niessen, J.F. Veenland, M.M. Paulides, T. Van Walsum
- > Whole breast radiotherapy in prone and supine position: What treatment technique to choose?
B. Speleers (Belgium), W. De Neve, I. Madani, L. Veldeman, T. Mulliez
- > QA program for IGRT and the role of the RTT: Detection of set-up errors for breast cancer patients
K. Goudschaal (The Netherlands), M. Kamphuis, Z. Van Kesteren, R. De Jong, M. Frank, A. Bel, N. Van Wieringen
- > Dosimetric comparison of different non-invasive techniques for additional boost delivery after whole breast RT
T. Reynders (Belgium), H. Van Parijs, K. Heuninckx, D. Verellen, G. Storme, M. De Ridder
- > Reproducibility of deep inspiration breath-hold and dosimetric implications in treatments of left-breast cancer
P. Porcu (Italy), A. Fassi, P. Tabarelli, M. Liotta, I. Meaglia, C. Bocci, M. Riboldi, G. Baroni, G.B. Ivaldi

■ Symposium

ADAPTIVE RADIOTHERAPY TO SHRINKING TUMOURS II

10:30 - 11:30 | ROOM STRAUSS 1

In this interdisciplinary session three speakers will address the topic adaptive radiotherapy for shrinking tumours. Christine Haie-Meder will give her view on adaptive brachytherapy in cervical cancer. She will address how cervical cancer tumours shrink during the course of external beam radiotherapy and discuss its consequences on the brachytherapy technique. Clinical results and the impact of delineation uncertainties on dosimetry will be discussed as well. Michael Velec will address practical issues for adaptive radiotherapy for liver tumours. Starting with examples of geometric deviations that may require adaptation for high precision liver radiotherapy, practical methods to adapt the treatment plan to them and risks with those will be discussed. Finally, Claudio Fiorino will address the rationale and aims of boosting for rectal cancer using adaptive radiotherapy. Besides practical issues regarding treatment planning, margins, and imaging, clinical results on the first 25 patients will be presented.

Chair: M. Hoogeman (The Netherlands)**Co-Chair: J. Hammer (Austria)**

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PD-0477

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- 10:30 > Adaptive brachytherapy in cervical cancer
Speaker: C. Haie-Meder (France)
- 10:50 > Practical adaptive radiation therapy for liver tumours
Speaker: M. Velec (Canada)
- 11:10 > Efficient implementation of an adaptive boost strategy in the neoadjuvant treatment of rectal cancer
Speaker: C. Fiorino (Italy)

■ Proffered Papers

RADIOBIOLOGY 3: INTERPLAY BETWEEN HYPOXIA, DNA REPAIR AND RADIOSENSITIVITY

10:30 - 11:30 | ROOM LEHAR 4

Chair: R. Bristow (Canada)**Chair: K. Borgmann (Germany)**

- 10:30 > Paclitaxel at lower nanomolar concentrations sensitizes tumor cells to irradiation by inducing aneuploidy
M. Orth (Germany), C. Belka, K. Lauber
- 10:40 > DNA repair defects in squamous cell carcinomas of the head and neck
C. Vens (The Netherlands), C. Verhagen, D. Vossen, F. Hageman, K. Borgmann, R. Grenman, R. Kerkhoven, M. Verheij, L. Wessels, M.W.M. Van den Brekel
- 10:50 > Targeting Rad51 to radiosensitize glioblastoma stem cells
H. King (United Kingdom), S.C. Short
- 11:00 > G2 checkpoint signalling in hypoxic cells
G. Hasvold (Norway), C. Lund-Andersen, M. Lando, H. Lyng, R.G. Syljuasen
- 11:10 > Genetically engineered breast cancer mouse models to explore and target radioresistance
G. Borst (The Netherlands), C. Coackley, H. Yucel, C. Guyader, A. Berlin, J.J. Sonke, M. Verheij, J. Jonkers, S. Rottenberg, R. Bristow

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SP-0480

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■ Proffered Papers

CLINICAL 9: BREAST CANCER (2)

10:30 - 11:30 | AUDITORIUM

Chair: Y. Kirova (France)**Chair: A. Resch (Austria)**

- 10:30 > 17 year results of the randomized boost versus no boost EORTC 22881-10882 trial in early breast cancer
H. Bartelink (The Netherlands), P. Maingon, P.M. Poortmans, C. Weltens, A. Fourquet, J.J. Jager, D.A.X. Schinagel, C.C. Rodenhuis, S. Collette, L. Collette
- 10:40 > Risk of second primary lung cancer in women after radiotherapy for breast cancer; a DBCG based dose-response study
T. Grantzau (Denmark), M.S. Thomsen, J. Overgaard
- 10:50 > Toxicity of APBI using IMRT versus whole breast irradiation: 3-year follow-up of a Phase III randomized trial
L. Meattini (Italy), D. Scartoni, C. Saieva, E. Monteleone Pasquetti, C. Muntoni, V. Scotti, C. De Luca Cardillo, L. Orzalesi, S. Bianchi, L. Livi
- 11:00 > Hypofractionated WBI plus IOERT-boost in early stage breast cancer (HIOB): Updated results of a prospective trial
G. Fastner (Austria), R. Reitsamer, P. Kopp, D. Murawa, E. Hager, A. Ciabattini, R. Brimmer, J. Reiland, W. Budach, F. Sedlmayer
- 11:10 > Late cosmetic and skin toxicity outcome in hypofractionated whole breast 3D-radiotherapy
G. Lazzari (Italy), A.N. Crastolla, A.R. Marsella, G. Porrazzo, M.G. Monis, M. Soloperto, A. Nicolau, L. Santorsa, A. Terlizzi, G. Silvano
- 11:20 > Accelerated partial breast irradiation vs. whole breast irradiation: A cost-minimization analysis
S. Rivera (France), T. Bathily, E. Rivin, E. Deutsch, I. Borget, C. Bourquier

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OC-0488

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OC-0493

■ Proffered Papers

CLINICAL 10: RECTAL CANCER (2)

10:30 - 11:30 | ROOM STRAUSS 2-3

Chair: J. Gérard (France)**Chair: K. Bujko (Poland)**

- 10:30 > Capecitabine based preoperative chemo-RT in rectal cancer intensified by RT or oxaliplatin: The INTERACT trial
V. Valentini (Italy), A. De Paoli, M.C. Barba, M.L. Friso, M. Lupattelli, R. Rossi, S. Di Santo, F. De Marchi, C. Coco, G.B. Doglietto

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- 10:40 > Local failure after neoadjuvant treatment and local excision for rectal cancer: a multicenter LEADER trial
S. Pucciarelli (Italy), A. De Paoli, M. Guerrieri, V. Valentini, A. Perin, F. De Marchi, G. Mantello, V. Canzonieri, M.L. Friso, C. Coco
OC-0495
- 10:50 > Impact of radiation boost on pCR-rate in locally advanced rectal cancer: A systematic review and meta-analysis
J.P.M. Burbach (The Netherlands), A.M. Den Harder, H.M. Verkooijen, M. Van Vulpen, O. Reerink
OC-0496
- 11:00 > Feasibility study of external beam radiotherapy followed by brachytherapy in inoperable rectal cancer patients
L. Velema (The Netherlands), A. Cats, K. Neelis, Y. Van der Linden, R. Nout, B. Van Triest, J. Buijssen, T. Rozema, M. Ketelaars, C. Marijnen
OC-0497
- 11:10 > CTV delineation for rectal cancer treatment: ambiguities defined by a national review project
L. Joye (Belgium), H. Van Herck, P. Slagmolen, G. Defraene, E. Hortobagyi, F. Maes, K. Haustermans
OC-0498
- 11:20 > Final results of READY (REsearch program for AutoDelineation Systems) - RECTAL 02: Perspective study
M.A. Gambacorta (Italy), C. Valentini, L. Boldrini, N. Caria, G.C. Mattiucci, D. Pasini, M. Boccardi, G. Chiloiro, N. Dinapoli, V. Valentini
OC-0499

■ Proffered Papers

PHYSICS 9: MANAGING INTRAFRACTION MOTION

10:30 - 11:30 | ROOM LEHAR 1-2-3

Chair: M. Aznar (Denmark)

Chair: H. Furtado (Austria)

- 10:30 > A comparison of two clinical correlation models for dynamic tumor tracking with a focus on geometrical accuracy
J. Dhont (Belgium), K. Poels, T. Depuydt, T. Lacornerie, B. Engels, C. Collen, M. Buleteanu, T. Gevaert, D. Verellen, M. De Ridder
OC-0500
- 10:40 > Comparison between existing and proposed 4DCT protocols
D.A. Low (USA), D.H. Thomas, J.M. Lamb, P.P. Lee, S. Gaudio, S. Jani, T. Dou, B. White, X. Wu
OC-0501

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- 10:50 > Respiratory motion integrated IMRT optimization for stereotactic treatment of pancreatic cancers
A. Patel (The Netherlands), A.N. Kotte, H.D. Heerkens, M. Bal, O. Reerink, M. Van Vulpen, M.G. Witte, G.J. Meijer
OC-0502
- 11:00 > Impact of cardiac and respiratory motion during cardiac radiosurgery: a dose accumulation study in a porcine model
R. Werner (Germany), F. Bode, R. Bruder, M. Gebhard, J. Dunst, D. Rades, O. Blanck
OC-0503
- 11:10 > Comparing a clinical protocol and fast intra-fraction update of a new motion prediction model for tumor tracking
K. Poels (Belgium), T. Depuydt, B. Engels, C. Collen, F. Steenbeke, M. Boussaer, M. Duchateau, T. Gevaert, D. Verellen, M. De Ridder
OC-0504
- 11:20 > Patient-specific motion and treatment margins in pancreatic stereotactic body radiation therapy
M. Miften (USA), B.L. Jones, N. Fukami, T. Schefter
OC-0505

■ Proffered Papers

PHYSICS 10: BASIC DOSIMETRY

10:30 - 11:30 | ROOM STOLZ 1-2

Chair: H. Palmans (United Kingdom)

Chair: P. Eichberger (Austria)

- 10:30 > Ionization chamber response in the presence of magnetic fields – the influence of the wall effect
J. De Pooter (The Netherlands), L.A. De Prez
OC-0506
- 10:40 > A universal predictive model for diode correction factors in small radiation fields
P.Z.Y. Liu (Australia), N. Suchowerska, D.R. McKenzie
OC-0507
- 10:50 > 3D real-time water-equivalent dosimeter using a single light-field camera for pre-treatment QA
M. Goulet (Canada), M. Rilling, L. Gingras, S. Beddar, L. Beaulieu, L. Archambault
OC-0508
- 11:00 > Early results for a novel IMRT verification system based on an upstream MAPS detector
S. Blake (United Kingdom), S. Fletcher, P. Stevens, J. Velthuis, R. Page, R. Hugtenberg
OC-0509

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11:10 > Absolute dosimetry for synchrotron microbeam radiation therapy using a graphite calorimeter
S. Duane (United Kingdom), N.D. Lee, F. Graber, E. Brauër-Krisch, J.C. Crosbie

11:20 > Monte Carlo calculated output correction factors for nine small field detectors in Varian Clinac iX 6 MV photon beams
H. Benmakhlouf (Sweden), J. Sempau, P. Andreo

■ Debate

IN THE ERA OF CONE BEAM CT, THIS HOUSE BELIEVES THAT ELECTRONIC PORTAL IMAGING IS OBSOLETE

10:30 - 11:30 | ROOM SCHUBERT 1-2-3

The objective of the debate is to discuss the current and future role of the tools which generate images for radiotherapy treatment verification, focus on the changing clinical practice with the introduction of OBI. The role of EPID needs to be redefined since it has been surpassed by other technological developments. Nevertheless, it is still used to visualize bone and implanted markers or when the fast image acquisition is important and for MLC position verification.

On the other hand, with the introduction of IMRT and VMAT techniques and the recent development of Adaptive Radiotherapy, the 3D visualization becomes more and more important. CBCT gives the best quality images and important information on the soft tissue.

The discussion will try to obtain a clear position between the speakers, chairs and the audience on the possible benefits of electronic portal imaging.

Chair: D. Pasini (Italy)**Chair: J.G. Eriksen (Denmark)****Chair: B. Holch Kristensen (Denmark)**

10:30 > For the motion
Speaker: A. Betgen (The Netherlands)

10:45 > Against the motion
Speaker: E. Forde (Ireland Republic of)

11:00 > For the motion rebuttal
Speaker: A. Betgen (The Netherlands)

11:10 > Against the motion rebuttal
Speaker: E. Forde (Ireland Republic of)

11:20 > Audience participation

ABS. N°

OC-0510

OC-0511

SP-0511

SP-0512

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■ Poster Discussion 8

CLINICAL: CNS/PALLIATION/LYMPHOMA

10:30 - 11:15 | ROOM A4

Chair: K. Dieckmann (Austria)**Chair: D. Vordermark (Germany)****Chair: N. Burnet (United Kingdom)**

> Impact of age and comorbidities in glioblastoma patients. Which cut-off of age make a difference?

C. Mazzarella (Italy), S. Chiesa, N. Dinapoli, A.R. Alitto, B. Diletto, M. Ferro, D. Marchesano, M.A. Gambacorta, V. Valentini, M. Balducci

> Karnofsky performance score as easy tool to predict survival in patients with painful bone metastases

P.G. Westhoff (The Netherlands), A. De Graeff, E.M. Monnikhof, E.M. Van der Steen - Banasik, M. Van Vulpen, J.W.H. Leer, C.A.M. Marijnen, Y.M. Van der Linden

> Phase II study of VERO SBRT for oligometastatic cancer: First clinical results

B. Engels, R. Van den Begin (Belgium), T. Depuydt, K. Poels, T. De Vin, T. Gevaert, M. Duchateau, C. Collen, D. Verellen, M. De Ridder

> Edema or not edema: this the matter in glioblastoma CTV! Hypothesis from two sequential phase II studies

S. Chiesa (Italy), C. Mazzarella, M. Ferro, N. Dinapoli, G.C. Mattiucci, F. Miccichè, M.T. Riccardi, V. Frascino, A.G. Morganti, M. Balducci

> Memory preservation in patients with brain metastases following hippocampal avoidance whole-brain RT

W. Tomé (USA), M. Mehta, S. Deshmukh, V. Gondi, C. Cane, B. Corn, H. Rowley, V. Kundapur, A. DeNittis, L. Kachnic

> Early stage nodal follicular lymphoma using IF radiotherapy and Rituximab: Results of the MIR trial of the GLSG and ARO

K. Herfarth (Germany), S. Schnaidt, Aro, Glsg

> Short course vs. standard course radiotherapy, in elderly and/or fragile patients with glioblastoma multiforme

L. Kepka (Poland), W. Roa, N. Kumar, V. Sinaika, J. Matiello, D. Lomidze, D. Hentati, D. Guedes de Castro, S. Ghosh, E. Fidarova

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- > A comparative study between radiation induced- and sporadic meningiomas treated with linac based radiosurgery
M. Wygoda (Israel), A. Wygoda, A. Bibas, N. Schwob, N. Adika, R. Sharif, Y. Shoshan
- > Impact of cardiac screening on satisfaction with information provision in Hodgkin Lymphoma survivors
L.A. Daniels (The Netherlands), A.D.G. Krol, M.A. De Graaf, A.H.J.A. Scholte, M.B. Van 't Veer, H. Putter, A. De Roos, M.J. Schalijs, C.L. Creutzberg

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PD-0520

PD-0521

■ Proffered Papers

SELECTED RANDOMISED TRIALS

11:45 - 12:30 | AUDITORIUM

Chair: R. Pötter (Austria)

Chair: D. Zips (Germany)

- 11:45 > 3D-CRT/IMRT with/without short term androgen deprivation in localized T1b-cT2aN0M0 prostate cancer (EORTC 22991)
M. Bolla (France), P. Maingon, A.C.M. Van den Bergh, C. Carrie, S. Villa, P. Kitsios, P. Poortmans, S. Sundar, E.M. Van der Steen-Banasik, L. Collette
- 11:55 > Discussant: R. Bristow (Canada)
- 12:05 > Lymph node RT improves survival in breast cancer: 10 years results of the EORTC ROG and BCG phase III trial 22922/10925.
P. Poortmans (The Netherlands), H. Struikmans, S. Collette, C. Kirkove, V. Budach, P. Maingon, M.C. Valli, A. Fourquet, W. Van den Bogaert, H. Bartelink
- 12:15 > Discussant: B. Haffty (USA)

OC-0522

OC-0523

■ Award Lecture

KLAUS BREUR AWARD

12:30 - 13:00 | AUDITORIUM

Chair: V. Valentini (Italy)

- 12:30 > Image guided adaptive radiotherapy - the paradigm of cervix cancer brachytherapy
Speaker: R. Pötter (Austria)

SP-0524

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■ Symposium

BEST OF ASTRO SESSION

14:30 - 16:00 | ROOM STRAUSS 1

The Best of ASTRO at ESTRO session will provide ESTRO meeting attendees a review of the most relevant, highly-rated abstracts for palliative care, lymphoma and lung from the 2013 ASTRO Annual Meeting. Advances in the applications, technologies and methodologies of radiation oncology continue to evolve rapidly and the delivery of radiation therapy has become more complex, making it imperative that the radiation oncology professional remain current in the state-of-the-art techniques. This 90-minute session will afford attendees the opportunity to gain exposure to the latest science in radiation oncology as it relates to palliative care, lymphoma and lung.

Chair: V. Valentini (Italy)

Chair: C. Lawton (USA)

Chair: B. Haffty (USA)

- 14:30 > Introduction
- 14:32 > Palliative care
Speaker: E. Chow (Canada)
- 15:01 > Lymphoma
Speaker: A. Ng (USA)
- 15:30 > Lung
Speaker: M. Werner-Wasik (USA)

■ Symposium: Gottwald Schwarz Symposium

BIOLOGICALLY ADAPTIVE RADIOTHERAPY: THE HYPOXIA EXAMPLE

14:30 - 16:00 | ROOM SCHUBERT 4-5-6

In 1909 Gottwald Schwarz showed that reduction of tissue perfusion, resulting in hypoxia, is radioprotective. Hypoxia initiates a cascade of cellular defense mechanisms. To counteract hypoxia it is of utmost importance to understand the biological and molecular mechanisms behind the radioprotective effect hypoxia. This negative effect can be overcome by increasing the oxygenation status of tumors, applying oxygen mimicking agents or targeting hypoxic cells with cytotoxins. Also, by dose painting of hypoxic tumor areas tumor control may also be enhanced.

The Gottwald Schwarz symposium will give a review, from preclinical research to clinical application, how hypoxia can be overcome in clinical radiotherapy.

Chair: J. Bussink (The Netherlands)

Co-Chair: P. Lukas (Austria)

- 14:30 > The biological rationale for targeting hypoxia - past, present, and future
Speaker: B. Wouters (Canada)
- 15:00 > Translating hypoxia imaging into adaptive radiotherapy
Speaker: J. Lee (Belgium)

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- 15:30 > Clinical interventions and biological stratification
Speaker: J. Kaanders (The Netherlands)

Joint Symposium ESTRO-EORTC

CURRENT DEVELOPMENTS IN SOFT TISSUE SARCOMA TREATMENT

14:30 - 16:00 | AUDITORIUM

*Chair: C. Le Pechoux (France)**Chair: J. Blay (France)*

- 14:30 > Radiotherapy for Desmoid-type Fibromatosis: An effective treatment option
Speaker: R. Keus (The Netherlands)
- 14:52 > Changes in the local approach of retroperitoneal sarcoma: A real challenge
Speaker: S. Bonvalot (France)
- 15:14 > Limb sarcoma: Should the optimal timing sequence for radiotherapy be the same for all patients?
Speaker: R. Haas (The Netherlands)
- 15:36 > Chordoma: current concepts management and future directions
Speaker: J. Debus (Germany)

Symposium

INDIVIDUALISATION OF TREATMENT FOR PATIENTS WITH HIGH GRADE GLIOMA

14:30 - 16:00 | ROOM STRAUSS 2-3

Molecular and clinical biomarkers are beginning to inform treatment of patients with high grade glioma. Three influential and engaging speakers from Europe and North America will outline recent progress in this field and debate current areas of controversy and innovation. The key question is whether rational application of novel molecular and radiation technologies can improve outcomes for patients with this devastating disease.

*Chair: A. Chalmers (United Kingdom)**Co-Chair: M. Niyazi (Germany)*

- 14:30 > Molecular biomarkers in glioma: Prognostic or predictive?
Speaker: W. Wick (Germany)
- 15:00 > Maximising benefit and minimising risk in the treatment of elderly patients with glioblastoma
Speaker: N.J. Laperrriere (Canada)

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- 15:30 > Do patients with glioblastoma benefit from IMRT?
Speaker: N. Burnet (United Kingdom)

Symposium

CLINICAL VALIDATION OF CONTOUR PROPAGATION AND ATLAS-BASED SEGMENTATION TOOLS

14:30 - 16:00 | ROOM LEHAR 1-2-3

In this session a critical review and clinical validation of automated segmentation tools will be provided. An overview will be given of the main indices used for evaluating the accuracy of contour propagation, as well as management of inter-observer variability using metrics including level of agreement between experts. Open source tools for evaluating deformable image registration algorithms will be presented and the need for validation will be explained. Advantages and limitations of using data sets versus algorithms will be covered. Three commercial solutions will be benchmarked and performance quantification will be illustrated for head-and-neck.

*Chair: D. Verellen (Belgium)**Co-Chair: G. Rizzo (Italy)*

- 14:30 > Metrics for quantifying differences between contours
Speaker: G. Rizzo (Italy)
- 14:52 > Open source tools for validation of deformable registration
Speaker: D. Sarrut (France)
- 15:14 > Quantifying the performances of commercially available deformable registration tools in contouring OAR in ART
Speaker: L. Widesott (Italy)
- 15:36 > Quantifying the performances of atlas-based auto-segmentation in HN
Speaker: D. Teguh (The Netherlands)

Symposium

ACCURACY AND ITS CLINICAL RELEVANCE IN BRACHYTHERAPY

14:30 - 16:00 | ROOM STOLZ 1-2

This session will review the current knowledge about accuracy of brachytherapy taking into account dose calculation, registration of dose distribution with imaging data and dose delivery. Dose calculation includes treatment planning system modelling, consensus data and TG-43 approximations. Inter-fraction changes and interobserver contouring variations are depending on clinical site and technique. Uncertainties have a direct impact on the outcome, depending on the dose response curve and the prescribed dose levels. This knowledge can help the clinician to decide on the treatment intent, the necessary accuracy, the appropriate application method and also the planning aim for dosimetric parameters.

*Chair: C. Kirisits (Austria)**Co-Chair: K. Tanderup (USA)*

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- 14:30 > Brachytherapy accuracy: From calibration to calculation
Speaker: J. Perez-Calatayud (Spain)
- 15:00 > Dose delivery and impact of uncertainties on dose response in the clinical setting
Speaker: N. Nesvacil (Austria)
- 15:30 > Relevance of accuracy in brachytherapy: clinical perspective
Speaker: P. Petric (Qatar)

■ Symposium

PATIENT MANAGEMENT AND SUPPORTIVE CARE

14:30 - 16:00 | ROOM SCHUBERT 1-2-3

The session has focus on side effects and how RTTs can take care of the patients. First there will be a presentation about acute and late side effects according to head- and neck cancer patients receiving multimodality treatments and the corresponding care. A project with RT support in information and education within a local community setting will be presented together with a discussion of the current role for RTTs. The last presentation will shed light on the effect of exercises for patients receiving adjuvant treatment relative to physical fitness, fatigue and chemotherapy.

Chair: A. Boejen (Denmark)**Co-Chair: B. Stanek (Austria)**

- 14:30 > Management of side effects in head and neck cancer patients treated in multimodality setting
Speaker: P. Cornacchione (Italy)
- 15:00 > Radiotherapy information and support in the community, - as part of rehabilitation
Speaker: L. Perchard-Rees (United Kingdom)
- 15:30 > Intensive physical training during adjuvant treatment
Speaker: H. Van Waart (The Netherlands)

■ Poster Discussion 9

PHYSICS: MODELLING AND ADAPTIVE RADIOTHERAPY

14:30 - 15:15 | ROOM A4

Chair: I.R. Vogelius (Denmark)**Chair: L. Cozzi (Switzerland)**

- > Modeling the risk of self-reported acute nicturia in prostate cancer RT: Ad interim results of a prospective study
V. Carillo (Italy), C. Cozzarini, T. Rancati, F. Civardi, V. Casanova Borca, M. Palombarini, A. Pierelli, E. Pignoli, R. Valdagni, C. Fiorino

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- > Effects of non-target dose on normal prostate cells
L. Shields (Ireland Republic of), I. Vega-Carrascal, F. Lyng, B. Mc Clean
- > GI dose constraints for prostate radiotherapy: Derivation by toxicity and localised anatomy
M.A. Ebert (Australia), S. Gulliford, K. Foo, A. Haworth, A. Kennedy, D.J. Joseph, J.W. Denham
- > Refining a method to define population-based margins including the residual deformation error in daily IGRT
R. Raso (Italy), C. Fiorino, M. Pagliazzi, E. Scalco, S. Broggi, A. Spinelli, G.M. Cattaneo, G. Rizzo, R. Calandrino
- > Volumetric changes in head and neck radiotherapy are not the most significant predictors for dose distribution shifts
P. Winkler (Austria), G. Jakse, G. Lodron, M. Uray, H. Mayer, R. Flitsch, K. Kapp
- > Impact of DVH prediction models and a standardized planning technique on post-op endometrial IMRT plan quality
L.A. Olsen (USA), J. Tan, M. Watts, A. Magliari, A. Lindsay, D. Yang, J.K. Schwarz, P.W. Grigsby, K.L. Moore, S. Mutic
- > Impact on NTCP of worst-case and beam-angle optimization in IMPT for oropharyngeal cancer patients
I. Van Dam (The Netherlands), S. Van de Water, D.R. Schaart, A. Al-Mamgani, B.J.M. Heijmen, M.S. Hoogeman
- > Cervix motion in 50 cervical cancer patients, derived from daily CBCT and implanted fiducials
T.R. Langerak, J.W.M. Mens, S. Quint, S.T. Heijkoop, M.L. Bondar, B.J.M. Heijmen, M.S. Hoogeman (The Netherlands)
- > How many fractions are necessary for an accurate accumulation of bladder wall dose?
T. Rosewall (Canada), J. Wheat, G. Currie, J. Xie, J. Moseley, A. Bayley, C. Catton, P. Chung, V. Kong, M. Milosevic

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MONDAY, 7 APRIL 2014

Symposium

IMMUNOLOGY AND RADIOTHERAPY

16:30 - 17:30 | ROOM STRAUSS 1

Although radiation therapy is usually described as an immunosuppressive modality, there are new preclinical evidences suggesting that IR could have also generated substantial changes in the tumor microenvironment, including triggering an inflammatory process. This finding implies that radiotherapy could both modulate tumor immunity and have out-of-field activity by recruiting biological effectors. There are numerous uncertainties regarding the true biological impact of radiation on tumor immunogenicity, but some preclinical studies established the proof of concept that combining IR with strategies modifying immunology such as immune checkpoints targeting agents (anti CTL | Room A4, anti PDI: anti PDL1 agents) could enhance antitumor effects.

Chair: E. Deutsch (France)

Co-Chair: F. Wolf (Austria)

- 16:15 > Novel immunotherapeutic drugs in clinical trials
Speaker: C. Massard (France)
- 16:35 > Impact of the inflammatory tumour microenvironment on radiation response
Speaker: D.G. Duda (USA)
- 16:55 > Radiotherapy and immunotherapy combinations - unlocking the potential
Speaker: T. Illidge (United Kingdom)

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SP-0554

SP-0555

SP-0556

Symposium

INDIVIDUALISED RADIOTHERAPY FOR HPV POSITIVE HEAD AND NECK CANCER

16:30 - 17:30 | ROOM SCHUBERT 4-5-6

Patients with locally advanced stage III/IV, HPV-associated HNSCC, have significant better survival and low risk of recurrence compared with HPV-negative SCC. Increasing debate has been focused on de-intensification of treatment in the hopes of minimizing chemoradiotherapy-related morbidity without compromising the current cure rates. In the Symposium the following issues will be highlighted: 1. experimental evidences on radio and chemosensitivities of HPV(+) HNSCC cell lines and the potential enhancement of radiosensitivity via molecular targeting; 2. main concepts of treatment de-escalations (options, rationale and pitfalls) for HPV(+) HNSCC; 3. prognostic/predictive factors and design methodology for individualized radiotherapy trials.

Chair: R. Corvò (Italy)

Co-Chair: G. Jakse (Austria)

- 16:30 > Radiobiology of HPV-positive HNSCC cells: Mechanisms of radiosensitivity and implications for therapy
Speaker: T. Rieckmann (Germany)

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- 16:50 > Challenges and pitfalls in treatment de-escalation in HPV oropharyngeal cancer patients
Speaker: H. Mehanna (United Kingdom)
- 17:10 > Design methodology for individualized radiotherapy trials
Speaker: S. Collette (Belgium)

ABS. N°

SP-0558

SP-0559

Symposium

ESTRO DELINEATION GUIDELINE FOR BREAST CANCER

16:30 - 17:30 | ROOM LEHAR 4

This session will give an update on the current state-of-the-day of the development of guidelines for target volume delineation in breast cancer.

We will start with the ESTRO recommendations for the breast and the thoracic wall, including tools to improve delineation of the boost after classical tumorectomy as well as after oncoplastic procedures. This will be followed by the consensus for contouring the lymph node areas: all levels of the axilla, the supraclavicular region and the internal mammary chain, including specific situations including after axillary lymph node dissection and without axillary surgery.

We conclude with the guidelines for delineation for partial breast irradiation developed by GEC-ESTRO, including the use of imaging, markers and margins.

Chair: P. Poortmans (The Netherlands)

Co-Chair: A. Schratte-Sehn (Austria)

- 16:15 > ESTRO guideline for treatment volume definition of the breast, boost and thoracic wall: questions and answers
Speaker: Y. Kirova (France)
- 16:35 > ESTRO guideline for delineation of lymph node regions in breast cancer
Speaker: L. Boersma (The Netherlands)
- 16:55 > Target volume delineation in partial breast brachytherapy
Speaker: T. Major (Hungary)

SP-0560

SP-0561

SP-0562

Proffered Papers

CLINICAL 11: LATE BREAKING ABSTRACTS

16:30 - 17:30 | AUDITORIUM

Chair: L. Livi (Italy)

Chair: K. Kapp (Austria)

- 16:30 > 10 years' results of the ARO 95-06 trial of concurrent 70.6 Gy HART/MMC/5-FU versus 77.6 Gy HART alone in LASCC of the H&N
Y. Budach (Germany), C. Stromberger, C. Poettgen, M. Baumann, W. Budach, G. Grabenbauer, S. Marnitz, H. Olze, K.D. Wernecke, P. Ghadjar

OC-0563

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- 16:40 > Quality of life outcomes from a multicenter study of SBRT for low- and intermediate-risk prostate cancer
R. Meier (USA), I. Kaplan
OC-0564
- 16:50 > SPACE - A randomized study of SBRT vs conventional fractionated radiotherapy in medically inoperable stage I NSCLC
J. Nyman (Sweden), A. Hallqvist, J.A. Lund, O.T. Brustugun, P. Bergström, S. Friesland, R. Lewensohn, N. Drugge, H. Rylander, I. Lax
OC-0565
- 17:00 > Continuous Hyperfractionated Accelerated RadioTherapy – Escalated Dose (CHART-ED): A Phase I study
M. Hutton (United Kingdom), R. Hill, P. Wilson, P. Atherton, S. Morgan, J. Dickson, K. Murray, J. Paul
OC-0566
- 17:10 > 5x4 Gy vs. 10x3 Gy for metastatic spinal cord compression: Preliminary results of the SCORE-2 trial
D. Rades (Germany), B. Segedin, R. Garcia, M. Metz, M. Nitsche, A. Schreiber, H. Badakhshii, P. Hipp, D. Norkus, S.E. Schild
OC-0567
- 17:20 > Quality of life in very elderly radiotherapy patients: prospective study using the new EORTC QLQ-ELD14 module
D. Vordermark (Germany), A. Kaufmann, H. Schmidt, C. Ostheimer, J. Ullrich, M. Landenberger
OC-0568

■ Proffered Papers

CLINICAL 12: HEALTH ECONOMICS

16:30 - 17:30 | ROOM STRAUSS 2-3

Chair: J.W. Leer (The Netherlands)

Chair: P. Vos (The Netherlands)

- 16:30 > Radiotherapy departments and equipment in the European countries: Final results from the ESTRO-HERO survey
C. Grau (Denmark), N. Defourney, J. Malicki, P. Dunscombe, J.M. Borrás, M. Coffey, B. Slotman, M. Bogusz, C. Gasparotto, Y. Lievens
OC-0569
- 16:42 > Radiotherapy staffing in the European countries: Final results from the ESTRO-HERO survey
Y. Lievens (Belgium), M. Coffey, N. Defourney, P. Dunscombe, J. Borrás, B. Slotman, J. Malicki, M. Bogusz, C. Gasparotto, C. Grau
OC-0570
- 16:54 > Present and future status of radiation therapy in low-middle income countries: An imminent global crisis
N.R. Datta (Switzerland), M. Samiei, S. Bodis
OC-0571

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- 17:06 > Patterns of practice in palliative radiotherapy in Africa – case revisited
B. Jeremic (South Africa), V. Vanderpuye, S. Abdel-Wahab, P.M. Gaye, L. Kochbati, D. Dawotola, T. Wondemagegnehu, M. Diwani, C. Nyongesa, T. Shouman
OC-0572
- 17:18 > Availability and outcomes of radiotherapy in central Poland
J. Chalubinska-Fendler (Poland), W. Fendler, M. Spych, J. Luniewska-Bury, W. Mlynarski, J. Fijuth
OC-0573

■ Proffered Papers

PHYSICS 11: INTERFRACTION VARIATIONS

16:30 - 17:30 | ROOM LEHAR 1-2-3

Chair: C. Brink (Denmark)

Chair: E. Steiner (Austria)

- 16:30 > MRI-based inter-fraction motion analysis for rectal cancer boost radiotherapy
J.J.E. Kleijnen (The Netherlands), B. Van Asselen, J.P.M. Burbach, M. Intven, O. Reerink, J.J.W. Lagendijk, B.W. Raaymakers
OC-0574
- 16:50 > Large scale implementation of adaptive radiotherapy for lung cancer patients
L. Hoffmann (Denmark), M. Knap, A.A. Khalil, M.H. Andersen, A.B. Rasmussen, M.K. Joergensen, D.S. Moeller
OC-0575
- 16:40 > Dosimetric improvements due to an adaptive strategy for lung cancer patients
D. Moeller (Denmark), M.M. Knap, A.A. Khalil, M.I. Holt, T.B. Nyeng, L. Hoffmann
OC-0576
- 17:00 > Automated daily breath hold verification by imaging in 504 breast cancer patients
J.C.J. De Boer (The Netherlands), H.J.G. Van den Bongard, B. Van Asselen
OC-0577
- 17:10 > Mediastinal lymph node position variability in relation to the carina in radical irradiated lung cancer patients
E.E. Schaake (The Netherlands), M.M.G. Rossi, W.A. Buikhuisen, J.S.A. Belderbos, J.A. Burgers, J.J. Sonke
OC-0578
- 17:20 > Decision support for re-planning in head and neck cancer patients treated with adaptive radiotherapy
R.G.J. Kierkels (The Netherlands), L.C. Pickup, M.J. Gooding, J. Free, J.A. Langendijk, C.L. Brouwer, N.M. Sijtsema
OC-0579

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■ Proffered Papers

PHYSICS 12: CLINICAL DOSE MEASUREMENTS

16:30 - 17:30 | ROOM STOLZ 1-2

Chair: W. Van Elmpt (The Netherlands)

Chair: W. Lechner (Austria)

- 16:30 > Results from an online patient in-vivo dosimetry protocol for prostate cancer
S. Beddar (USA) OC-0580
- 16:40 > Dosimetry of 100 – 250 MeV Very High Energy Electrons (VHEE) as a new treatment modality for radiotherapy
A. Subiel (United Kingdom), *V. Moskvina*, *S. Cipiccia*, *G.H. Welsh*, *A. Sorensen*, *P. Evans*, *M. Partridge*, *C. DesRosiers*, *M. Boyd*, *D.A. Jaroszynski* OC-0581
- 16:50 > Opposite relationship shown between IMAT plan complexity and QA success rate for two patient-specific QA systems
T. Pommer (Denmark), *L.S. Fog*, *I.R. Vogelius*, *B. Smulders*, *M. Lundemann*, *P. Munck af Rosenschöld* OC-0582
- 17:00 > Prediction of deviations between planned and delivered dose for VMAT treatment plans
A.L. Wolf (The Netherlands), *A. Mans*, *C. Van Vliet-Vroegindewij*, *E. Damen* OC-0583
- 17:10 > Online 3D dose verification for VMAT treatments
H. Spreeuw (The Netherlands), *R. Rozendaal*, *I. Olaciregui-Ruiz*, *A. Mans*, *B. Mijnheer*, *M. Van Herk* OC-0584
- 17:20 > A pixel detector system for QA measurements
S. Reinhardt (Germany), *S. Kantz*, *R. Berger*, *M. Reiner*, *W. Assmann*, *K. Parodi* OC-0585

■ Proffered Papers

RTT 5: CURRENT PERSPECTIVES ON PATIENT CARE AND CLINICAL PRACTICE

16:30 - 17:30 | ROOM SCHUBERT 1-2-3

Chair: A.L. Soares (Portugal)

Chair: P. Figueiredo (Angola)

- 16:30 > Which benefits and harms should be addressed in the pre-radiation consultation with rectal cancer patients?
M. Kunneman, *A.H. Pieterse*, *A.M. Stiggelbout*, *C.A.M. Marijnen* (The Netherlands) OC-0586

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- 16:40 > An assessment of compassion fatigue levels among radiation therapists working in Ireland, using the proQOL-v5
R. Dempsey (Ireland Republic of), *L. Maignol*, *A. Craig* OC-0587
- 16:50 > Influence of coloured light and self-selected music on the subjective well-being of patients during radiotherapy
J. Stadlbauer (Austria), *H.J. Gmeilbauer*, *K. Rieder*, *P. Scherer*, *F. Sedlmayer* OC-0588
- 17:00 > Knowledge and attitudes of healthcare professionals towards provision of information regarding erectile dysfunction
C. O'Connell (Ireland Republic of), *M. Cunningham*, *A. O' Donovan* OC-0589
- 17:10 > Optimising radiotherapy for bone metastases by target volume delineation and individualised treatment planning
A. Alberts (The Netherlands), *A. Patel*, *E. Mierlo van*, *I. Nouwens*, *S. Hol*, *W. Smits*, *D. Verhoof*, *L. van der Linden*, *E. Raaijmakers*, *P. Poortmans* OC-0590
- 17:20 > Evaluation of barrier film in prevention of acute radiation dermatitis in breast cancer patients
M. Rempel (Canada), *D. McGregor* OC-0591

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OC-0587

OC-0588

OC-0589

OC-0590

OC-0591

■ Teaching Lecture

NTCP MODELLING: FACT OR MYTH?

08:30 - 09:10 | ROOM SCHUBERT 1-2-3

Chair: T. Rancati (Italy)

08:30 > NTCP modelling: Fact or myth?
Speaker: A. Van Der Schaaf (The Netherlands)

ABS. N°

SP-0592

■ Teaching Lecture

REVIEW OF SECONDARY CANCERS

08:30 - 09:10 | ROOM SCHUBERT 4-5-6

Chair: M. Krenkli (Italy)

08:30 > Review of secondary cancers
Speaker: K. Trott (Germany)

SP-0593

■ Teaching Lecture

MICRORNAS AND TUMOUR RADIATION RESPONSE

08:30 - 09:10 | ROOM LEHAR 4

Chair: A.E. Kiltie (United Kingdom)

08:30 > microRNAs and tumour radiation response
Speaker: N. Zaffaroni (Italy)

SP-0594

■ Teaching Lecture

LOCALLY ADVANCED NSCLC: IS THERE A ROLE FOR RADIOTHERAPY TO IMPROVE LOCAL CONTROL?

08:30 - 09:10 | ROOM STRAUSS 1

Chair: R. Dziadziuszko (Poland)

08:30 > Locally advanced NSCLC: Is there a role for radiotherapy to improve local control?
Speaker: D. De Ruysscher (Belgium)

SP-0595

■ Teaching Lecture

HEALTH ECONOMICS IN RADIATION ONCOLOGY

08:30 - 09:10 | ROOM STRAUSS 2-3

Chair: B. Slotman (The Netherlands)

08:30 > Health economics in Radiation Oncology
Speaker: P. Dunscombe (Canada)

SP-0596

■ Teaching Lecture

COST-BENEFIT OF FURTHER OPTIMISATION OF VMAT AND IMRT PLANNING

08:30 - 09:10 | ROOM LEHAR 1-2-3

Chair: J. Bedford (United Kingdom)

08:30 > Cost-benefit of further optimisation of VMAT and IMRT planning
Speaker: M. Alber (Denmark)

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SP-0597

■ Teaching Lecture

STATE OF THE ART OF RADIOTHERAPY UNDER MRI GUIDANCE

08:30 - 09:10 | ROOM STOLZ 1-2

Chair: A. Beavis (United Kingdom)

08:30 > State of the art of radiotherapy under MRI guidance
Speaker: U. Van der Heide (The Netherlands)

SP-0598

■ Teaching Lecture

FUNDAMENTALS OF SCIENTIFIC RESEARCH

08:30 - 09:10 | ROOM A4

Chair: M. Leech (Ireland Republic of)

08:30 > Fundamentals of scientific research
Speaker: S. Bentzen (USA)

SP-0599

■ Symposium

CLINICAL FACTORS INFLUENCING RADIATION INDUCED TOXICITY

09:15 - 10:30 | ROOM SCHUBERT 1-2-3

Apart from the beneficial effects of radiotherapy on tumor control, long-term treatment related effects are known to occur, especially in patients irradiated at younger age. In this session, we will summarize these treatment-related effects for different age groups. In addition, the underlying mechanisms of radiation induced normal tissue effects will be discussed.

Chair: TBC

Co-Chair: T. Langsenlehner (Austria)

09:15 > Epidemiology of late effects after radiotherapy at childhood and young adult ages
Speaker: F. Van Leeuwen (The Netherlands)

SP-0600

09:40 > Radiation-related treatment effects across the age spectrum with a focus on prostate cancer
Speaker: C. Cozzarini (Italy)

SP-0601

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- 10:05 > Age, aging and the age-old question: how does age affect the induction of normal tissue effects?
Speaker: J. Williams (USA)

■ Symposium

DOSE ESCALATION

09:15 - 10:30 | ROOM SCHUBERT 4-5-6

This symposium will explore the biological, clinical and physics aspects of dose escalation in radiation oncology. Theoretical concepts of biological dose and therapeutic ratio will be presented as a model for optimising tumour control and minimising late morbidity. The clinical data for improved local control with dose escalation in cervical cancer, head and neck cancer and prostate cancer in particular will be discussed with particular reference to the role of brachytherapy in achieving extreme dose distributions across a tumour volume. The challenge of achieving high tumour doses within normal tissue constraints will be explored further against the background of the available radiation techniques in clinical use and their physical limitations.

Chair: P. Hoskin (United Kingdom)**Co-Chair: C. Doeller (Austria)**

- 09:15 > The use of normal tissue-to-tumour alpha/beta ratios evaluate and optimise radiotherapy treatments
Speaker: H. Gay (USA)
- 09:40 > Clinical data demonstrating dose response in breast/cervix/prostate/head and neck
Speaker: E. Van Limbergen (Belgium)
- 10:05 > Methods for achieving dose response within OAR tolerances - facts and fiction
Speaker: D. Georg (Austria)

■ Symposium

EPIGENETIC AND MIRNA REGULATION OF TUMOUR RESPONSE TO RADIOTHERAPY

09:15 - 10:30 | ROOM LEHAR 4

This session will explore emerging roles for miRNA and epigenetic regulation of gene expression in cancer and radiobiology. It will include a presentation from S. Wiemann on studies utilizing global miRNA-protein interaction screens that have been used to discover miRNAs modulating NF- κ B and EGFR-signaling in cancer, including their mechanisms of action. The mechanistic understanding of miRNAs discovered in these screens will be demonstrated, followed by a more general discussion of how miRNAs are integrated into regulation interconnected protein networks, and the ways we undertake to elucidate such interactions. M. de Jong, will then discuss oncogenic and tumour suppressive miRNAs that are deregulated in Head and Neck cancer, and recent identification of miRNAs of rel-

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evance to radiation treatment in this disease. The third presentation will explore the use of epigenetic marks as biomarkers of radiation response, focusing on differences in DNA methylation that regulate gene silencing. Finally, A. Kiltie will discuss efforts to target epigenetic regulation of gene expression in combination with radiotherapy. The use of histone deacetylase inhibitors, such as panobinostat, are being explored as potential radiosensitizers in bladder cancer as a means to provide less toxic therapeutic options that are better tolerated by elderly patients.

Chair: B. Wouters (Canada)**Co-Chair: F. Zehentmayr (Austria)**

- 09:15 > miRNA-protein interaction networks in cancer
Speaker: S. Wiemann (Germany)
- 09:33 > microRNAs and radioresistance in head and neck cancer
Speaker: M. De Jong (The Netherlands)
- 09:51 > DNA methylation biomarkers of radiation response
Speaker: E.M.D. Schuurin (The Netherlands)
- 10:09 > Targeting histone acetylation in combination with radiotherapy
Speaker: A.E. Kiltie (United Kingdom)

■ Symposium

CURRENT DEVELOPMENTS IN THE MULTIDISCIPLINARY MANAGEMENT OF HEAD AND NECK CANCER

09:15 - 10:30 | ROOM STRAUSS 1

Chair: J. Bourhis (Switzerland)**Co-Chair: M. Kopp (Austria)**

- 09:15 > Will targeted agents improve the results of chemoradiation in high-risk HPV-negative head and neck cancers?
Speaker: E. Deutsch (France)
- 09:33 > Is there a role for therapeutic HPV vaccination in patients with head and neck cancer?
Speaker: K. Harrington (United Kingdom)
- 09:51 > Will the use of robotic surgery lead to de-escalation of treatment for oropharyngeal cancers?
Speaker: A. Dietz (Germany)
- 10:09 > Will personalised medicine approaches increase therapeutic options for salivary gland cancers?
Speaker: L. Licitra (Italy)

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SP-0611

SP-0612

SP-0613

TUESDAY, 8 APRIL 2014

Symposium

RADIOTHERAPY COSTS

09:15 - 10:30 | ROOM STRAUSS 2-3

The session will cover cost of radiotherapy in global oncology context:

- types of costs
- costs versus reimbursement
- methods of cost accounting – Activity Based Costing (ABC)
- where should we invest the money, where can we save?
- who should benefit from the investment: individual patient, health insurance companies, physicians...
- at which step of the cancer – initial or to palliative
- which innovative therapy to invest in – and who has the power to decide?
- availability of radiotherapy facilities in developing countries
- cost differences between developed-developing countries (staff salaries, training abroad, engineering expertise, maintenance contracts etc.)
- differences in health expenditure and other indicators
- differences in needs-practice related to different cancer incidence
- examples of ABC costing for these conditions

Chair: C. Grau (Denmark)

Co-Chair: R. Hawliczek (Austria)

- 09:15 > Radiotherapy costs: Myths and facts

Speaker: Y. Lievens (Belgium)

- 09:40 > Where should we invest the money, where can we save?

Speaker: P. Pommier (France)

- 10:05 > A worldwide perspective

Speaker: E.H. Zubizarreta (Austria)

Joint Symposium ESTRO-AAPM-EFOMP

THE FUTURE OF MEDICAL PHYSICS IN RADIOTHERAPY: ACADEMIC VS PROFESSIONAL ROLE

09:15 - 10:30 | ROOM LEHAR 1-2-3

Chair: T. Knöös (Sweden)

Chair: A. Torresin (Italy)

Chair: J. Hazle (USA)

- 09:15 > Harmonisation of the role of medical physics within Europe: A challenge or an impossibility?

Speaker: M. Pausco (Italy)

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SP-0615

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- 09:27 > The changing professional role of medical physics in the US
Speaker: R. Jeraj (Slovenia)

- 09:39 > Trends in the medical physics science and its dissemination
Speaker: L.P. Muren (Denmark)

- 09:51 > The role of MP in Europe between research and clinical activity: where are we going?

Speaker: G. Gagliardi (Sweden)

- 10:03 > Panel discussion

M. Pausco (Italy), A. Torresin (Italy), T. Bortfeld (US), R. Jeraj (US), L.P. Muren (Denmark), G. Gagliardi (Sweden), C. Fiorino (Italy), T. Knöös (Sweden)

Symposium

DAILY PLAN SELECTION STRATEGIES IN ADAPTIVE RADIOTHERAPY

09:15 - 10:30 | ROOM STOLZ 1-2

Chair: J. Sonke (The Netherlands)

Co-Chair: J. Liebl (Austria)

- 09:15 > Clinical implementation of on-line adaptive therapy using a plan library for cervical cancer

Speaker: M. Hoogeman (The Netherlands)

- 09:40 > Statistical motion models for generating plan libraries

Speaker: S. Thörnqvist (Denmark)

- 10:03 > Online adaptive image guided radiotherapy for muscle-invasive bladder cancer

Speaker: F. Foroudi (Australia)

Symposium

RESEARCH SKILLS FOR RTTs

09:15 - 10:30 | ROOM A4

Development of radiotherapy technology has been challenging for all involved parties. The following presentations demonstrates the opportunity to create a new role for RTTs in radiotherapy:

- T. Rosewall, CA, identifies the need to engage your entire RT department in research capacity building activities.
- M.B. Ellegaard, DK, discusses the process of converting an idea into a clinical research project in the radiotherapy department. The content of the 'speech' is a mystery because the chairman received nothing.
- L. Mullaney, IE, focusses on the development of scientific writing skills for RTTs. The highlights are: Why should RTTs publish, the writing process and getting published!

ABS. N°

SP-0618

SP-0619

SP-0620

SP-0621

SP-0622

SP-0623

TUESDAY, 8 APRIL 2014

Chair: B. Speleers (Belgium)
Co-Chair: U. Wolff (Austria)

- 09:15 > Creating a research culture within clinical radiotherapy departments
Speaker: T. Rosewall (Canada)
- 09:40 > From idea to implementation of a clinical research project in the radiotherapy department
Speaker: M. Ellegaard (Denmark)
- 10:05 > Development of scientific writing skills
Speaker: L. Mullaney (Ireland Republic of)

Symposium

NEW APPROACHES TO MODEL NORMAL TISSUE REACTIONS

11:00 - 12:00 | ROOM SCHUBERT 1-2-3

Modeling normal tissue reactions after radiation therapy is an essential part of treatment planning. NTCP models define this step in general terms. The first talk focuses on CT imaging as a tool to assess and quantify local damage to lung tissue. The second talk explores the need to clarify the link between exposure, of organ subvolumes and specific endpoints, rather than exposure and whole organs, in NTCP modeling. The third talk presents the specific case of NTCP models for prostate radiotherapy as a reflection on the main purpose of NTCP modeling, i.e. to provide valid outcome predictions for new patients.

Chair: G. Gagliardi (Sweden)
Co-Chair: G. Goldner (Austria)

- 11:00 > Imaging-based scoring of toxicity: Quantification of local radiation-induced lung damage using CT
Speaker: P. Van Luijk (The Netherlands)
- 11:20 > The limits of organ-based NTCP modeling - where to go?
Speaker: W. Dörr (Austria)
- 11:40 > Multivariable NTCP-models: building and validating multivariable models of toxicity after radiotherapy
Speaker: T. Rancati (Italy)

ABS. N°

SP-0624

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SP-0629

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

TUESDAY, 8 APRIL 2014

Symposium

NON-TARGET DOSES

11:00 - 12:00 | ROOM SCHUBERT 4-5-6

The increasing success of cancer treatment and the expansion of IMRT/VMAT has increased interest in the effects of dose received by normal tissue outside the high dose volume. This multidisciplinary session examines the importance of non-target dose. The physics component reviews the accuracy of modelling the dose in these regions, which is important in correlating dose with toxicity and in driving optimisation. The radiobiology talk examines risk estimates for therapy induced second cancer and the validity of extrapolating low dose studies to patients. The clinical section quantifies the risk of second cancer induction using a meta-analysis of more than 2 million breast cancer patients.

Chair: B. McClean (Ireland Republic of)
Co-Chair: B. Zurl (Austria)

- 11:00 > Increased risk of second cancer after radiotherapy; A meta-analysis on 925,523 breast cancer patients
Speaker: T. Grantzau (Denmark)
- 11:20 > Biology: Secondary cancer (biology perspective)
Speaker: K. Trott (Germany)
- 11:40 > Physical aspects of out of field doses, stories told by the TPS and beyond
Speaker: A. Ahnesjö (Sweden)

ABS. N°

SP-0630

SP-0631

SP-0632

Joint Symposium ESTRO-PROS-IAEA

RADIOTHERAPY OF CNS TUMOURS OF CHILDREN

11:00 - 12:00 | ROOM STRAUSS 1

This session will address important open questions in radiotherapy of paediatric CNS tumours: the role of re-irradiation, hyperfractionation, and proton beam therapy.

First speaker, Christian Carrie, will focus on re-irradiation in brain and spinal tumours taking into account spinal cord and brain stem issues. Rolf-Dieter Kortmann will investigate the role of hyperfractionation including clinical data on medulloblastoma, ependymoma and brain stem glioma. Finally, Andrea Wittig will address the role of proton beam therapy with special emphasis on clinical results, dose comparison studies, technical challenges, and implementation into interdisciplinary treatment concepts.

Chair: B. Timmermann (Germany)
Chair: C.R. Freeman (Canada)
Chair: E. Rosenblatt (Austria)

- 11:00 > Is there a role for re-irradiation?
Speaker: C. Carrie (France)
- 11:20 > Is there a role for hyperfractionation?
Speaker: R. Kortmann (Germany)
- 11:40 > Is there a role for proton beam therapy?
Speaker: A. Wittig (Germany)

SP-0633

SP-0634

SP-0635

TUESDAY, 8 APRIL 2014

Symposium**RADIOTHERAPY IN METASTATIC CANCER WITH THE AIM TO IMPROVE SURVIVAL**

11:00 - 12:00 | ROOM STRAUSS 2-3

Radiotherapy in oligometastatic disease is no longer considered a purely palliative treatment in all cases. However, there are several questions that remains to be answered. The concept of treatment in the metastatic setting will be discussed. What should be considered the target: the metastatic lesions or the primary tumor as well? What are the results of SBRT for liver metastases, with emphasis on normal tissue tolerance and clinical results. Finally, should SBRT for lung oligometastatic disease be RESERVED only for patients who are not suitable for surgery or should SBRT be considered a valuable option in operable cases as well.

Chair: H. Langendijk (The Netherlands)**Co-Chair:** M. Nevinny (Austria)

11:00 > Primary tumour-directed therapy in the face of metastatic disease: killing the seed or disturbing the soil?
Speaker: S. Morgan (Canada)

SP-0636

11:20 > Ablation of liver metastases by SBRT
Speaker: M. Hoyer (Denmark)

SP-0637

11:40 > Stereotactic ablative radiotherapy for oligometastatic disease: why and how?
Speaker: J. Widder (The Netherlands)

SP-0638

Symposium**REVIEW OF DOSE COMPARISON METRICS**

11:00 - 12:00 | ROOM LEHAR 1-2-3

This session will cover the current debate on applicability and accuracy of comparison methods for optimally evaluating delivery of complex dose distributions in different situations (machine QA, commissioning and patient-related pre-treatment verification). This will include currently widely used 2D and 3D gamma index methods, their use and parameterisation in practice, their limitations and potential problems; the display and interpretation of results and suitable tolerance criteria. In addition, developments in this topic will be considered, including taking into account more of the available information from the 3D distribution comparisons and also potential applications of other metrics and approaches.

Chair: D.I. Thwaites (Australia)**Co-Chair:** S. Vatnitskiy (Austria)

11:20 > Current status of gamma index use
Speaker: G. Budgell (United Kingdom)

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ABS. N°

TUESDAY, 8 APRIL 2014

11:00 > Drawbacks of current 2D/3D approaches for verifying complex dose distribution delivery
Speaker: P. Carrasco de Fez (Spain)

ABS. N°

SP-0640

11:40 > Other dose metrics
Speaker: C. Ceberg (Sweden)

SP-0641

Joint Symposium ESTRO-EFOMP**ADAPTIVE RADIOTHERAPY STRATEGIES FOR DOSE MONITORING AND RE-PLANNING**

11:00 - 12:00 | ROOM STOLZ 1-2

This joint session with EFOMP will address challenges in the development of adaptive radiotherapy (ART) protocols. By covering three different tumour sites - head & neck, lung and rectum - the talks will illustrate various ART strategies, including (daily) monitoring for anatomy changes and possible re-planning as well as the creation of adaptive plans based on repeat image data accumulated in the initial part of the treatment course. The talks will address highly topical issues such as methods for cone-beam CT based dose calculations as well as inclusion of functional imaging guided adaptations.

Chair: L.P. Muren (Denmark)**Chair:** A. Torresin (Italy)

11:00 > Direct and indirect methods for CBCT-based dose calculations
Speaker: U.V. Elstrøm (Denmark)

SP-0642

11:20 > Anatomical and functional imaging based adaptive radiotherapy for lung tumours
Speaker: W. Van Elmpt (The Netherlands)

SP-0643

11:40 > Changes in pelvic anatomy during radiotherapy for rectal cancer: Implications for ART
Speaker: J. Nijkamp (The Netherlands)

SP-0644

Symposium**TRAIN THE TRAINERS PROGRAMME: AN UPDATE**

11:00 - 12:00 | ROOM A4

The purpose of the Train the Trainers (TTT) was to equip Radiation Therapists (RTT) with the skills to design, organise, deliver and evaluate a course in their own language to RTTs in their own country. TTT should also increase the standard of education programmes for RTTs in these countries.

An additional aim was to establish a network of colleagues in their countries. The course director of TTT will give an update after 3 projects and two participants from Serbia and Croatia will give an status about the impact of TTT in their countries.

Chair: A. Osztavics (Austria)**Co-Chair:** C. Dickie (CA)

TUESDAY, 8 APRIL 2014

11:00 > ESTRO/IAEA initiative: Have we trained the RTT trainers?
Speaker: M. Coffey (Ireland Republic of)

ABS. N°

SP-0645

11:20 > Impact of TTT programme in Serbian education and professional development
Speaker: J. Stevanovic (Serbia)

SP-0646

11:40 > Impact of TTT programme in Croatian education and professional development
Speaker: V. Karadza (Croatia)

SP-0647

■ Debate

THIS HOUSE BELIEVES THAT LARGE PHASE III TRIALS REMAIN THE GOLD STANDARD IN RADIATION ONCOLOGY

12:00 - 13:00 | ROOM STRAUSS 1

Chair: J.R. Yarnold (United Kingdom)

12:00 > For the motion
Speaker: S. Bentzen (USA)

SP-0648

12:15 > Against the motion
Speaker: A. Dekker (The Netherlands)

SP-0649

12:30 > For the motion rebuttal
Speaker: S. Bentzen (USA)

12:40 > Against the motion rebuttal
Speaker: A. Dekker (The Netherlands)

12:50 > Audience participation

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

POSTERS AND E-POSTERS

POSTERS

■ Poster

CLINICAL TRACK: CNS AND HAEMATOLOGY

- > The role of radiotherapy in localized nongastric and nonorbital mucosa-associated lymphoid tissue lymphoma
J. Lee (Korea Republic of), K. Kim, J. Cho, C. Suh
- > Nodular Lymphocyte Predominant Hodgkin Lymphoma (NLPHL): Early outcomes
N.R. Khanna (India), N. Kalyani, J.S. Goda, H. Menon, M. Sengar, B. Arora, T. Shet, S. Gujral, S. Epari, S. Laskar
- > Hippocampal avoidance whole brain radiotherapy
I. Irfan (India), S. Kundan, D. Ghosh
- > Predicting survival length in brain metastasis patients treated by WBRT using heart rate variability
Y.M. Wang (Taiwan), H.T. Wu, E.Y. Huang, C.J. Wang, Y.R. Kou, S.S. Hseu
- > Pretreatment FLAIR high intensity volume on MR imaging correlate with clinical outcome in WHO grade 3 gliomas
N. Nakajima (Japan), K. Uwatsu, T. Ochi, T. Mochizuki
- > Brain abnormalities on MRI in pituitary adenoma patients treated with or without radiotherapy
M.G.A. Sattler (The Netherlands), L.C. Meiners, W.J. Sluiter, G. Van den Berg, J.A. Langendijk, B.H.R. Wolffenbuttel, A.P. Van Beek, A.C.M. Van den Bergh

■ Poster

CLINICAL TRACK: HEAD AND NECK

- > Concurrent chemoradiotherapy in stage III/IVA,B head and neck cancer: A randomised comparison 3DCRT vs IMRT-SIB
I. Minaila (Belarus), A. Ekshembeeva, N. Artemova, O. Moiseeva
- > Late dysphagia, xerostomia, neck fibrosis and toxic death after IMRT for head and neck cancer
F. Duprez (Belgium), D. Berwouts, I. Madani, T. Boterberg, W. De Neve

ABS. N°

PO-0650

PO-0651

PO-0652

PO-0653

PO-0654

PO-0655

PO-0656

PO-0657

POSTERS

- > Swallowing sparing intensity modulated radiotherapy: a prospective validation study
H. Langendijk (The Netherlands), M.E. Christianen, R.J. Steenbakkers, O. Chouvalova, K. Wopken, P. Doornaert, I.M. Verdonck-de Leeuw, C.R. Leemans, A. Van der Schaaf, H.P. Bijl
- > Prevention of mucositis in nasopharyngeal carcinoma using virgin coconut oil and salt and soda mouthwash
M. Cruz (Philippines), E. Tangco, M.A. Habana, C. Cordero, J. Mantaring, G. Banuelos, T. Sarmiento, M. Olvina, C. Aguilar, C. Tan-Pusag
- > Neoadjuvant TPF-based RT/CT for oral cavity carcinomas increases pathologic remissions and survival
M. Stuschke (Germany), J. Abu Jawad, W. Eberhardt, S. Grehl, C. Pöttgen, E. Gkika, G. Arnold, T. Gauler, C. Schmeling, C. Mohr
- > CogState computerized memory tests in patients with brain metastases: Secondary endpoint results of RTOG 0933
J. Caine (USA), M. Mehta, S. Deshmukh, V. Gondi, W. Tome, A. Kanner, H. Rowley, J.N. Greenspoon, A. Konski, L. Kachnic
- > Differential outcomes following radiotherapy by HPV status in N3 head and neck cancer
E. Tran (Canada), S.H. Huang, J. Waldron, X. Shen, W. Xu, E. Yu, J. De Almeida, A. Razak, B. Perez-Ordonez, B. O'Sullivan
- > Delayed response assessment FDG PET-CT following (chemo)radiotherapy for head and neck squamous cell carcinoma
F. Slevin (United Kingdom), S. Ramasamy, M. Sen, M. Subesinghe, A. Scarsbrook, R. Prestwich
- > DNA detection and p16 immunohistochemistry as alternative methods for the diagnosis of HPV in oropharyngeal cancer
R. Autorino (Italy), F. Miccichè, F. Bussu, N. Dinapoli, G.C. Mattiucci, J. Galli, M. Rigante, G. Almadori, G. Paludetti, V. Valentini
- > SPECT/CT lymphoscintigraphy for superselective nodal CTV selection in cN0 HNSCC patients: A phase I study
J.F. Daisne (Belgium), J. Installé, B. Bihin, M. Laloux, T. Vander Borgh, I. Mathieu, G. Lawson
- > High dose hypofractionated radiotherapy for treatment and palliation of head and neck cancer patients
C. Maare (Denmark), R. Kjeldsen, K. Jensen, M. Andersen, E. Andersen, J. Johansen

ABS. N°

PO-0658

PO-0659

PO-0660

PO-0661

PO-0662

PO-0663

PO-0664

PO-0665

PO-0666

POSTERS

- > Single vocal cord irradiation: Promising results of a novel IMRT technique to treat T1a laryngeal cancer
A. Al-Mamgani (The Netherlands), M. Moring, D. Fransen, A. Gangsaas, W. Van der Hilst, L. Tans, S.L.S. Kwa
PO-0667
- > Patterns of failure after intensity modulated radiation therapy for squamous cell head and neck carcinoma
F. Caparrotti (Switzerland), M. Rouzaud, H. Vees
PO-0668
- > Adjuvant chemotherapy improves outcome in NPC patients with post-RT persistently detectable plasma EBV DNA
C.T. Wu (Taiwan), W.Y. Wang, C.W. Twu, Y.T. Shih, P.J. Lin, Y.C. Liu, J.C. Lin
PO-0669
- > Association 18F-FDG metabolic tumour volume and dysphagia in head and neck IMRT as a prophylactic feeding predictor
M. Rolfo (Australia), J. Jackson, M. Wada, A. Huynh, N. Anderson
PO-0670
- > Combined IMRT and C12-heavy ion boost for malignant salivary gland tumours: COSMIC
A.D. Jensen (Germany), A.V. Nikoghosyan, K. Lossner, J. Debus, K.K. Herfarth, M.W. Münter
PO-0671
- > Human Papillomavirus (HPV) serum antibodies as biomarkers in head and neck squamous cell carcinoma
K. Lindel (Germany), M.P. Weissenhorn, J. Debus, A. Jensen, C. Simon, M. Pawlita
PO-0672
- > Safety of ART with margin reduction evaluated with fiducial markers in head and neck cancer
O. Hamming-Vrieze (The Netherlands), S.R. Van Kranen, S. Van Beek, W.D. Heemsbergen, M.W.M. Van den Brekel, C.R.N. Rasch, J.J. Sonke
PO-0673
- > Current smoking is the only significant predictor of locoregional control in HPV-positive oropharyngeal cancer
C. Liskamp (The Netherlands), G.O.R.J. Janssens, W.J.G. Melchers, J.H.A.M. Kaanders, C.G. Verhoef
PO-0674
- > The toxicity of induction chemotherapy on salivary gland function prior to curative IMRT for head and neck cancer
T. Richards (United Kingdom), G.H. Carpenter, K.J. Harrington, G.B. Proctor, C.M. Nutting
PO-0675

ABS. N°

POSTERS

- > Benefit of automated treatment planning applied in a parotid gland stem-cell sparing treatment
R.J.H.M. Steenbakkers (The Netherlands), R.G.J. Kierkels, H.P. Van der Laan, J.A. Langendijk, P. Van Luijk
PO-0676
- > Outcomes following 4-week accelerated chemo IMRT in biologically staged oropharyngeal cancer
R. Simmons (United Kingdom), H. Benghiat, P. Sanghera, A. Hartley, C. Bode, P. Massey, G. Sangha, J. Hodson, J. Glaholm, J. Cashmore
PO-0677
- > Outcome in failed curative radiation (-chemotherapy) of head neck cancer
G. Studer (Switzerland), P. Dimmerling, G. Huber, M. Bredell, T. Rordorf, C. Glanzmann
PO-0678
- > Central Necrosis on CT predicting extra capsular extension in lymph nodes with squamous cell carcinomas of Head & Neck
S.P. Giri, M.R. Kanakamedala (USA)
PO-0679

ABS. N°

Poster

CLINICAL TRACK: LUNG

- > The effect of metformin on radiotherapy outcome in non small cell lung cancer patients treated with chemoradiation
M.M.G. Rossi (The Netherlands), W. Uytendinck, H.M.U. Peulen, J.L. Knegjens, J.N.A. Diessen, J.A. Burgers, E. Dielemans, E. Troost, J.J. Sonke, J.S.A. Belderbos
PO-0680
- > Improved prediction of severe radiation pneumonitis by combining V20, VS5, pulmonary fibrosis on CT, and age
K. Tsujino (Japan), T. Hashimoto, T. Shimada, Y. Ota, O. Muraoka, H. Kawaguchi, M. Satouchi, S. Negoro, S. Adachi, T. Soejima
PO-0681
- > Severity of cardiac comorbidity is associated with dyspnea in lung cancer patients: Preliminary results
G. Nalbantov (The Netherlands), B. Kietselaer, E. Troost, M. Berbee, K. Smits, C. Oberije, A. Van Baardwijk, R. Wanders, A. Dekker, P. Lambin
PO-0682
- > Three different schedules of thoracic radiotherapy in LD-SCLC: a comparison of efficacy and toxicity
J. Socha (Poland), A. Guzowska, D. Tyc-Szczepaniak, M. Wierzchowski, A. Sprawka, A. Szczesna, L. Kepka
PO-0683

POSTERS

- > Clinical benefit of repeated CBCT imaging for evaluation of delivered dose during (chemo)radiotherapy in NSCLC
A.G.T.M. Egelmeier (The Netherlands), L.C.G.G. Persoon, S. Nijsten, M. Ollers, A. Van Baardwijk, S. Wanders, F.J.P. Hoebers, P. Lambin, F. Verhaegen, E.G.C. Troost
- > Intensity-modulated radiotherapy following extra-pleural pneumonectomy for malignant pleural mesothelioma
Y. Matsuo (Japan), K. Shibuya, K. Okubo, N. Ueki, M. Nakamura, M. Sonobe, A. Aoyama, M. Sato, H. Date, M. Hiraoka
- > A feasibility study of induction CDDP/MTA followed by EPP and postoperative hemithoracic radiation therapy for MPM
T. Soejima (Japan), N. Kamikonya, S. Hasegawa, F. Tanaka, M. Okada, T. Yamanaka, C. Tabata, T. Nakano
- > Impact of pretreatment modified Glasgow prognostic score on survival in SBRT for the lung
T. Kishi (Japan), Y. Matsuo, N. Ueki, Y. Iizuka, A. Nakamura, K. Sakanaka, T. Mizowaki, M. Hiraoka
- > Concurrent CRT (cCRT) for locally advanced NSCLC followed by consolidation pemetrexed: a phase II study
C. Faivre-Finn (United Kingdom), P. McCloskey, J. Helbrow, N. Bayman, P. Taylor, L. Ashcroft, T. Coyne, F. Blackhall
- > Radiotherapy practice patterns for lung cancer after the update of national guidelines in The Netherlands
J. Belderbos (The Netherlands), R. Damhuis
- > An individualized radiation dose escalation trial in non-small cell lung cancer, based on FDG-PET imaging
M. Wanet (Belgium), A. Delor, V. Remouchamps, S. Goossens, J.A. Lee, G. Janssens, F.X. Hanin, A. Van Maanen, X. Geets
- > Dose escalation using 3DCRT in concurrent setting with vinorelbine and a platinum compound in locally advanced NSCLC
P. Rusu (Romania), N. Todor, T. Guttman, V. Bogdan, T.E. Ciuleanu
- > Quantification of tumor shrinkage in the treatment of lung cancer: Selecting candidates for adaptive treatment
P. Berkovic (Belgium), L. Paelinck, Y. Lievens, C. Derie, B. Goddeeris, W. De Neve, K. Vandecasteele

ABS. N°

PO-0684

PO-0685

PO-0686

PO-0687

PO-0688

PO-0689

PO-0690

PO-0691

PO-0692

POSTERS

- > Timing of prophylactic cranial irradiation in pts with LD-small cell lung cancer: Is there a need to rush?
L. Wzietek (Poland), A. Napieralska, M. Bialas, A. Namysl-Kaletka, D. Gabrys, A. Tukiendorf, D. Bodusz, R. Suwinski

ABS. N°

PO-0693

Poster

CLINICAL TRACK: BREAST

- > Concurrent aromatase inhibitor use during left-sided breast cancer radiotherapy decreases cardiac functions
T. Skyttä (Finland), S.S. Tuohinen, V. Virtanen, P. Raatikainen
- > Elevated plasma fibrinogen level represents an independent prognostic factor in breast cancer patients
S. Krenn-Pilko (Austria), U. Langsenlehner, E.M. Thurner, T. Stojakovic, M. Pichler, A. Gerger, K.S. Kapp, T. Langsenlehner
- > Estrogen receptor and proliferation predicts local control in breast cancer hyperfractionated radiotherapy
R. Carmona Vigo (Spain), L.A. Henríquez-Hernández, B. Pinar, M.A. Cabezón-Pons, N. Rodríguez-Ibarria, M. Federico, M. Lloret, P.C. Lara
- > Clinical implementation of APBI using combined modulated electron and photon beams by means of the same MLC device
A. Leal (Spain), C. Miguez-Sánchez, B. Palma, R. Arráns, E. Jimenez-Ortega, A. Ureba, H. Miras
- > Clinical predictors of acute skin erythema in patients undergoing breast irradiation
M. De Santis (Italy), L. Lozza, T. Rancati, M. Carrara, C. Pariani, T. Giandini, E. Pignoli, C. Chiruzzi, N. Zaffaroni, R. Valdagni
- > Impact of locoregional treatment on survival in patients presented with metastatic breast carcinoma
M. Gultekin (Turkey), O. Yazici, G. Eren, D. Yuçe, S. Aksoy, Y. Ozisik, N. Guler, F. Yildiz, K. Altundag, M. Gurkaynak
- > Development of a predictive spectrophotometry-based model for skin erythema in patients treated for breast cancer
T. Giandini (Italy), C. Pariani, M. Carrara, L. Lozza, M.C. De Santis, C. Chiruzzi, T. Rancati, R. Valdagni, E. Pignoli
- > From supine to prone breast radiotherapy: an unaffordable cost?
L. Van den Berghe (Belgium), B. Vanderstraeten, L. Veldeman, N. Flamée, Y. Lievens

PO-0694

PO-0695

PO-0696

PO-0697

PO-0698

PO-0699

PO-0700

PO-0701

POSTERS

■ Poster

CLINICAL TRACK: GASTROINTESTINAL TUMOURS (UPPER AND LOWER GI)

- > Prognostic value of early PET-CT to predict response after neoadjuvant RCT in locally advanced rectal cancer
M.A. Gambacorta (Italy), L. Leccisotti, C. Valentini, C. De Waure, M. Boccardi, A.R. Alitto, A. Stefanelli, M.C. Barba, A. Giordano, V. Valentini
PO-0702
- > Does neoadjuvant chemotherapy improve the pathologic complete remission rate for rectal cancer patients?
T. Vuong (Canada), A. Garant, T. Niazi, P. Kavan, C.A. Vasilevsky, F. Letellier, M. Boutros, G. Batist
PO-0703
- > Hypofractionated external beam radiotherapy combined with high-dose-rate brachytherapy in esophageal cancer
J. Dortmans (The Netherlands), P.M. Braam, H. Rütten
PO-0704
- > Phase I/II study of image-guided and radiobiologically guided radiotherapy for hepatic lesions
M. Lock (Canada), S. Gaede, M. Plotnick, E. Wong
PO-0705
- > A prospective study to compare “the clinical eye” and model predictions for response in rectal cancer
J. Buijsen (The Netherlands), D.F.M. De Haas-Kock, J. Borger, L. Van de Voorde, L.J. Boersma, C. Oberije, P. Lambin
PO-0706
- > Molecular mechanisms of targeted drug toxicities in a clinical combined-modality radiotherapy study
E. Kalanxhi (Norway), K. Risberg, S. Dueland, K. Røe, K. Flatmark, A.H. Ree
PO-0707
- > Pre-operative chemoradiation for rectal cancer – Do radiotherapy dose and field size matter?
D.B.H. Tan (United Kingdom), R. Glynne-Jones, M. Harrison
PO-0708
- > Second non-colorectal primary cancer among survivors of rectal cancer
R. Suwinski (Poland), I. Wzietek, A. Napieralska, Z. Kolosza, A. Namysl-Kaletka, S. Blamek, S. Rafal
PO-0709
- > Standardized data collection (SDC) for rectal cancer: Towards personalized medicine
E. Meldolesi (Italy), J. Van Soest, A. Damiani, A. Dekker, M.A. Gambacorta, V. Valentini
PO-0710

ABS. N°

POSTERS

- > Pattern of lymph node metastases on 18FDG-PET/CT in inoperable esophageal cancer and its impact on CTV
S.J.M. Wouterse (The Netherlands), R.J. Bennink, M.C.C.M. Hulshof
PO-0711
- > Biological target volume definition in locally advanced pancreatic cancer: how useful is FDG-PET?
J.M. Wilson (United Kingdom), S. Mukherjee, K.Y. Chu, T.B. Brunner, M. Partridge, M.A. Hawkins
PO-0712
- > Meta-analysis of neoadjuvant chemoradiotherapy for esophageal carcinoma
B. Li (China), J. Cheng, L. Kong
PO-0713
- > Initial clinical experience with ‘cohort multiple Randomized Controlled Trial’ design: The PICNIC-rectum project
J.P.M. Burbach (The Netherlands), O. Reerink, M. Koopman, M.G.H. Van Oijen, W.M.U. Van Grevenstein, P.D. Siersema, H.M. Verkooyen
PO-0714
- > Post-neoadjuvant presacral radiological abnormalities in rectal cancer: Long-term risk factors analysis
M. Muñoz (Spain), F.A. Calvo, J. Serrano, C. Calles, J. Laureiro, L. Martín, M. Gómez-Espí, E. Del Valle
PO-0715
- > Image guided SBRT for treatment of liver malignancies: review of single institution 4-year experience
O. Utehina (Latvia), I. Nemiro, G. Boka, D. Purina, S. Maksimova, J. Frolova, S. Popov, V. Boka
PO-0716
- > Radiotherapy of anal cancer: Is IMRT and VMAT a step forward?
G. Gruber (Austria), C. Track, C. Venhoda, J. Hammer, B. Spindelbaker-Renner, E. Putz, K.J. Spiegel, H. Geinitz
PO-0717
- > Helical Tomotherapy in combined anal cancer treatment: a prospective trial with reduced overall treatment time
S. Vagge (Italy), A. Bacigalupo, L. Belgioia, D. Agnese, R. Corvò
PO-0718
- > Multidisciplinary assessment in patients with anal canal carcinoma: simultaneous integrated boost with VMAT
C. Iftode (Italy), A. Tozzi, T. Comito, M. Federici, E. Villa, E. Clerici, A. Gaudino, G. Maggi, F. Lobefalo, M. Scorsetti
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POSTERS

- > Association between life prognosis and pretreatment ICG 15 for the patients with HCC treated by proton beam therapy
M. Mizumoto (Japan), Y. Oshiro, T. Okumura, N. Fukumitsu, H. Ishikawa, K. Ohnishi, H. Numajiri, T. Aihara, K. Tsuboi, H. Sakurai
PO-0720
- > High-grade acute toxicity during radiochemotherapy and outcome: an analysis on 352 patients
M.C. Barba (Italy), R. Autorino, M.A. Gambacorta, G. D'agostino, S. Manfrida, G. Mantini, E. Meldolesi, S. Silipigni, F. Cellini, V. Valentini
PO-0721

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CLINICAL TRACK: GENITOURINARY (PROSTATE INCLUDED)

- > Dosimetric parameters correlated to quality of life after stereotactic body radiation therapy for prostate cancer
P. Wang (USA), X. Xu, S. Qi, C. King, M. Kamrava, S. Tenn, P. Kupelian
PO-0722
- > Data mining tools for predicting the risk of toxicity in prostate cancer patients treated with radiation therapy
R. Jose (Spain), J.L. Lopez Guerra, R. Matute, B. Pontes, C. Rubio, I. Nepomuceno, F. Puebla, J.M. Praena-Fernandez, M.J. Ortiz Gordillo, I. Azinovic
PO-0723
- > Outcome of Choline PET-CT guided salvage hypofractionated Tomotherapy for lymph-nodal recurrent prostate cancer
A. Fodor (Italy), G. Berardi, C. Fiorino, M. Picchio, C. Cozzarini, P. Mangili, I. Dell'Oca, R. Calandrino, L. Gianolli, N.G. Di Muzio
PO-0724
- > Neoadjuvant PSA kinetics in prostate cancer with LHRH agonists: The importance of full testosterone suppression
T. Pickles (Canada), W.J. Morris, S. Tyldesley
PO-0725
- > Pathology of CTV of prostate cancer: Implications for the dose to the tumor and the gland
G. Ghobadi (The Netherlands), B.G. Hollmann, J.E. De Jong, H.G. Van der Poel, B. Van Triest, U.A. Van der Heide
PO-0726
- > Late rectal toxicity after RT for prostate cancer: the case of patients with moderate/severe basal GI symptoms
G. Fellin (Italy), T. Rancati, C. Fiorino, V. Vavassori, R. Valdagni
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POSTERS

- > Influence of whole pelvis radiotherapy in high risk PC outcomes treated with radical intention. RECAP data base
J. Lopez Torrecilla (Spain), J.L. Munoz Garcia, J. Jove i Teixido, A. Hervás Moron, M. Casaña Giner, J.L. Mengual Cloquell, Y. Ríos Kavadoy, C. González San Segundo, M. Porras Martínez, A. Gomez Caamaño
PO-0728
- > Haematologic toxicity from post-prostatectomy whole pelvis RT is not negligible and prolonged. A prospective study
C. Cozzarini (Italy), C. Fiorino, B. Noris Chiorda, G. Agnello, L. Perna, S.G. Brenna, A. Chiara, V. Sacco, F. Zerbetto, N. Di Muzio
PO-0729
- > Change in prostate volume during extreme hypo-fractionation analysed with MRI
A. Gunnlaugsson (Sweden), E. Kjellén, O. Hagberg, C. Thellenberg-Karlsson, A. Widmark, P. Nilsson
PO-0730
- > Evolution in late rectal toxicity in prostate cancer patients in the intensity modulated radiotherapy era
V.E. Fonteyne (Belgium), S.S. Sadeghi, P.O. Ost, G.D.M. De Meerleer
PO-0731
- > Postoperative radiotherapy for prostate cancer: Morbidity due to local vs. pelvic radiotherapy
C. Waldstein (Austria), W. Dörr, R. Pötter, G. Goldner
PO-0732
- > Cross-sectional study about prevalence of MetS and osteoporosis in PC treated with ADT and their impact on QL
Y. Rios Kavadoy (Spain), J.L. Munoz Garcia, P. Samper Ots, M.L. Couselo Paniagua, E. Villafranca Iturre, M. Rodríguez Liñán, A.M. Pérez Casas, R. Muelas Soria, B. Ludeña Martínez, J. López Torrecilla
PO-0733
- > Assessing response to radiotherapy with diffusion weighted MRI (DW-MRI) in muscle invasive bladder cancer (MIBC)
S. Hafeez (United Kingdom), M. Koh, A. Sohaib, R. Huddart
PO-0734
- > Patient-reported nocturia 1 to 14 years after radiation therapy for prostate cancer
N. Pettersson (Sweden), C. Olsson, D. Alsadius, G. Steineck
PO-0735
- > Pattern of failure after sentinel node based individualization of pelvic IMRT for high risk prostate cancer
A.C. Müller (Germany), F. Eckert, F. Paulsen, M. Bamberg, A. Stenzl, D. Schilling, M. Alber, R. Bares, C. Belka, U. Ganswindt
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POSTERS

- > Effects of Radium-223 Dichloride on Health-Related QOL in CRPC Pts with Bone Mets from the Ph 3 ALSYMPCA Trial
J. O'Sullivan (Ireland Republic of), C. Parker, D. Heinrich, D. Bottomley, P. Hoskin, L. Franzén, A. Solberg, P. Cislo, A. Aksnes, S. Nilsson
PO-0737
- > Imagen guided radiotherapy in prostate cancer: Interobserver variability with CBCT Mv and fiducial markers
C. Salas (Spain), L. Gutiérrez, L. De Ingunza, E. González, L. Díaz, I. Villanego, V. Díaz, J. Jaén
PO-0738
- > First UK experience of prostate SBRT: Acute toxicity and PSA outcomes
A.C. Tree (United Kingdom), P.J. Ostler, P. Hoskin, P. Dankulchai, V.S. Khoo, N.J. Van As
PO-0739
- > Patient-reported anxiety and depression at the end of post-prostatectomy IMRT: impact of acute toxicity
F.Z. Zuppari (Italy), R.M. Milesi, C.F. Fiorino, C.B. Bianconi, L.P. Perna, C.C. Cozzarini
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CLINICAL TRACK: GYNAECOLOGICAL TUMOURS

- > The risk of lumbosacral plexopathy in long-term survivors after definitive radiotherapy for cervix cancer
S. You (Korea Republic of), K.W. Park, J.Y. Lee
PO-0741
- > The role of vaginal brachytherapy in endometrial carcinoma with positive pelvic lymph nodes
K. Boudaoud (Algeria), L. Beddar, S. Taleb, A. Brihmat, H. Boudaoud, T. Filali, A. Djemaa
PO-0742
- > Dosimetric impact of interfractional anatomical deviations on postoperative IMRT for uterine cervical cancer
K. Kobayashi (Japan), N. Murakami, H. Okamoto, K. Takahashi, K. Yoshio, K. Inaba, M. Morota, Y. Ito, M. Sumi, J. Itami
PO-0743
- > Brachytherapy in cervical cancer: Comparison between CT/MRI based versus MRI only based conformal approach
E.S. Choong, S. Rodda, H. Musunuru, P. Bownes (United Kingdom), C. Richardson, S. Swift, J. Orton, R. Cooper
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- > Treatment outcomes of patients with cervical cancer with complete metabolic responses after definitive CHRT
H.C. Onal (Turkey), O.C. Guler, M. Reyhan, A.F. Yapar
PO-0745
- > The role of radiotherapy in the management of recurrent ovarian cancer – a single UK centre experience
J. Ponichtera (United Kingdom), Y. Nishchal, Y.S. Nagar
PO-0746
- > IMRT improves plan quality for cervical cancer patients compared to VMAT
A.W. Sharfo (The Netherlands), P. Voet, S. Breedveld, S. Heijkoop, M. Hoogeman, B.J.M. Heijmen
PO-0747
- > Relapse patterns in node positive cervical cancer patients treated with modern chemoradiotherapy techniques
S. Rodda (United Kingdom), E. Choong, H. Musunuru, S. Swift, J. Orton, R. Cooper
PO-0748
- > Prognostic factors after postoperative radiotherapy in stage I-III uterine carcinosarcomas
A. Roviroso (Spain), C. Ascaso, M. Arenas, I. Rios, M. Del Pino, J. Ordi, J. Morales, M. Gascon, J. Pahisa, A. Biete
PO-0749
- > Prospective study on toxicity data using Intensity Modulated Radiation Therapy for locally advanced cervix cancer
R. Mouttet-Audouard (France), P. Nickers, T. Lacornerie, N. Reynaert, E. Tresch, A. Kramar, F. Le Tinier, E. Leblanc, F. Narducci, E. Lartigau
PO-0750
- > Measuring uterine cervical cancer on MRI correlated to pathological assessment; the PREPAC-study
P. De Boer (The Netherlands), A.J. Van de Schoot, S. Bipat, M. Buist, M. Bleeker, J. Stoker, L. Stalpers, C. Rasch
PO-0751
- > Leiomyosarcomas stage I-IIIb: 33 years of experience
L. Castilla (Spain), A. Roviroso, I. Rios, C. Ascaso, R. Calvo, M. Arenas, J. Ordi, J. Pahisa, A. Biete
PO-0752
- > Molecular imaging of tumour microenvironment in cervix cancer with multiparametric 3T-MRI and 18F-FMISO-PET/CT
P. Georg (Austria), P. Baltzer, H. Magometshnigg, S. Polanec, P. Andrzejewski, A. Sturdza, R. Pötter, T. Helbich, D. Georg, K. Pinker
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POSTERS

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- > After neoadjuvant CCRT for patients with FIGO IB-IIB cervical cancer, was the lymphadenectomy needed?
L.C. Wei (China), M. Shi, Y. Zhang, N. Wang
- > Prophylactic extended-field carbon-ion radiotherapy for locally advanced uterine cervical cancer
M. Wakatsuki (Japan), S. Kato, T. Ohno, K. Karasawa, D. Irie, K. Ando, H. Kiyohara, T. Nakano, T. Kamada, M. Shozu
- > Total dose to sites of nodal failure in cervical cancer patients: A sub study in EMBRACE
P. Kroon (The Netherlands), A. De Leeuw, J. Cnossen, K. Tanderup, J. Lindegaard, R. Pötter, I. Jürgenliemk-Schulz
- > Definitive radiotherapy for cervix cancer – a single institution experience with 10-years follow-up
B. Segedin (Slovenia), R. Hudej, H.B. Zobec Logar, P. Petric
- > Dose escalation with intensity modulated radiotherapy in the treatment of locally advanced cervical cancer
H. Cağlar (Turkey), B. Atalar, A. İkizler, N. Sozen, E. Ozyar

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CLINICAL TRACK: PAEDIATRICS

- > Anesthesia for external beam radiation therapy in children – an audit of clinical practice
S. Sarkar, A. Kumari, I. Mallick, S. Chatterjee (India), R. Achari

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CLINICAL TRACK: ELDERLY

- > Patterns of care and treatment outcomes in elderly head and neck cancer patients treated with IMRT
M.L. Brown (Switzerland), C. Glanzmann, G. Huber, M. Bredell, G. Studer
- > Stereotactic body radiation therapy is effective and safe in elderly patients with early stage NSCLC
G. Martin (Italy), E. Verga, V. De Chiara, P. Morrone, M.D. Falco

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CLINICAL TRACK: PALLIATION/SUPPORTIVE CARE/PATIENT SUPPORT

- > Prognostic value of KPS and LDH in melanoma patients with intracranial seeding treated with WBRT: A multicenter study
R. Partl (Austria), G. Fastner, J. Kaiser, E. Kronhuber, K. Cetin-Strohmer, C. Steffal, B. Böhmer-Breitfelder, J. Mayer, A. Avian, A. Berghold
- > Use of palliative radiotherapy in brain and bone metastases (VARA II study)
J. Exposito Hernandez (Spain), I. Tovar, J. Jaen, E. Alonso, R. Del Moral, R. Guerrero, M. Martínez, M. Zurita, M.A. Gentil, I. Linares

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CLINICAL TRACK: STEREOTACTIC RT

- > Limiting the toxicity by using SBRT for prostate cancer patients: 3 year follow-up in a multi-institutional study
S. Aluwini (The Netherlands), G. Beltramo, P. Van Rooij, J. Boormans, W. Kirkels, I.K. Kolkman-Deurloo
- > Patterns of distant brain recurrences (DBR) after radiosurgery (RS) alone for newly diagnosed brain metastases
J.D. Zindler (The Netherlands), B.J. Slotman, F.J. Lagerwaard
- > Phase II study of FFF-SBRT for prostate cancer in 5 sessions: Excellent tolerability in the first 60 patients
E. Alongi (Italy), E. Villa, T. Comito, C. Iftode, P. Navarra, P. Mancosu, S. Tomatis, G. Reggiori, L. Cozzi, M. Scorsetti
- > Clinical experience in the treatment of adrenal metastases with Stereotactic Body Radiation Therapy (SBRT)
J. Anchuelo Latorre (Spain), O. Hernando, E. Sánchez, M. López, R. Ciérvide, A. Rodríguez, J.M. Pérez, U. López, C. Belda, C. Rubio
- > VERO Mitsubishi/BrainLab RT: Case profile, feasibility and acute toxicity in consecutive 686 patients/819 lesions
M. Muto (Italy), A. Surgo, B.A. Jereczek-Fossa, C. Fodor, G. Piperno, S.P. Colangione, A. Ferrari, S. Comi, C. Garibaldi, R. Orecchia
- > Factors associated with hearing loss after LINAC-based stereotactic radiotherapy for vestibular schwannoma
N. Hoekstra (The Netherlands), A. Van Linghe, J. Wolbers, R. Van Os, L. Stienstra, A. Dallenga, B. Heijmen, A. Mendez Romero

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- > Local control after RS and SBRT for cerebral metastases
A. Lapierre (France), R. Tanguy, C. Carrie, L. Claude, M. Ayadi, M. Sunyach
- > Analysis of tumor motion patterns during Stereotactic Body Radiotherapy for treatment of liver cancer
S. Maksimova (Latvia), O. Utehina, I. Nemiro, J. Frolova, G. Boka, D. Purina, S. Popov, V. Boka
- > Technology evolution improved clinical outcome after SBRT/SABR with 48 Gy in 4 fractions for stage I lung cancer
V. Remouchamps (Belgium), S. Bougas, C. Ninane, A. Baudoux, F. Bustin, F. Duplaquet, F. Maisin, S. Ocak, S. Palumbo, G.U.Y. Vandermoten
- > Hyperfractionated stereotactic reirradiation for recurrent head and neck cancer
J. Cvek (Czech Republic), L. Knybel, B. Otahal, J. Stransky, O. Res, E. Skacelikova, P. Kominek, K. Zelenik, L. Molenda, D. Fellt
- > Fractionated stereotactic radiotherapy for the treatment of pituitary adenomas
M. Zurita-Herrera (Spain), M.I. Tovar-Martin, R. Del Moral-Ávila, R. Guerrero-Tejada, M. Martínez-Carrillo, J. Expósito-Hernández, M.A. Gentil-Jiménez, I. Linares-Galiana, P. Vargas-Arrabal, C. Prieto-Prieto
- > Robotic stereotactic re-irradiation for locally recurrent head-and-neck cancer: single center experience
P. Bonomo (Italy), S. Cipressi, C. Iermano, I. Bonucci, L. Masi, R. Doro, V. Favuzza, F. Paiar, G. Simontacchi, L. Livi
- > Robotic SBRT for tumors of the liver. Radiation induced liver disease, incidence and predictive factors
G.J. Janoray (France), S.C. Chapet, A.R.L. Ruffier-Loubiere, G.B. Bernadou, Y.P. Pointreau, G.C. Calais
- > Patterns of local failure after SBRT for oligometastatic colorectal cancer
R. Van den Begin (Belgium), B. Engels, T. Gevaert, G. Storme, M. De Ridder
- > Stereotactic body radiation therapy (SBRT) for lung oligometastasis
L. Larrea (Spain), E. Lopez-Muñoz, P. Antonini, J. Bea, M.C. Baños, M.A. García

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POSTERS

- > Assessment of liver function by magnetic resonance imaging after SBRT for hepatocellular carcinoma
A. Baumann (France), D. Peiffert, V. Marchesi, V. Laurent
- > SBRT for liver metastases: Results on 260 treated lesions
C. Menichelli (Italy), F. Casamassima, M. Panichi, G. Pastore, A. Fanelli, S. Tubin

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CLINICAL TRACK: TARGET AND VOLUME DEFINITION AND IMAGING

- > Delineation of tumor tissue on H&E-sections of laryngeal carcinoma. How accurate is the gold standard?
E.A. Jager (The Netherlands), T. Schakel, S.M. Willems, N. Kooij, P.J. Slootweg, M.E.P. Philippens, C.H.J. Terhaard, C.P.J. Raaijmakers
- > BioXmark(TM) – a liquid injectable fiducial marker for image guided radiotherapy
R. Jølcck (Denmark), A.E. Hansen, T.L. Andresen
- > Design of cone-beam CT for proton therapy gantry
S. Brousmiche (Belgium), J. Seabra, R. Labarbe, M. Vila Oliva, S. Rit, D. Wikler, J. Lee, K. Teo, J. Orban de Xivry, B. Macq
- > Quantifying variability among clinician-delineated structures
R.F. Thompson (USA), P. Fang, A. Hollander, S. Batra, A. Lin, C. Hill-Kayser
- > 89Zr-Cetuximab uptake in primary head and neck xenografts is independent of the expression of EGFR and perfusion
S. Peeters, K. Panth (The Netherlands), N. Lieuwes, J. Bussink, G.A.M.S. Van Dongen, L. Dubois, P. Lambin
- > Use of functional MRI imaging to identify area to be boosted in anal cancer treatments
L. Fazio (Italy), A. Mazzone, L. Testa, D. La Paglia, V. Macchiarella, M. Spada

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CLINICAL TRACK: HEALTH ECONOMICS

- > Particle therapy in Norway - report from the national project group
E. Waldeland (Norway), O. Dahl and O.H. Odland, S. Kvaløy, J. Lund, E. Malinen, K. Marienhagen and R. Sylvarnes, L.P. Muren, G. Pedersen B. Pedersen and P.O. Vadset, A.D. Wanderås, O. Mella
- > The reorganization of a large academic radiotherapy department set-up similar to a prospective clinical trial
M. Jacobs (The Netherlands), L. Boersma, E. Hermans, K. Smits, S. Moorman, F. Van Merode, P. Lambin
- > Monitoring the workflow in a radiotherapy department: a study on quality evolution in ten years of clinical activity
S. Tomatis (Italy), V. Palumbo, G. Maggi, A. Gaudino, G. Reggiori, F. Lobefalo, A. Stravato, P. Mancosu, P. Navarria, M. Scorsetti

■ Poster

PHYSICS TRACK: BASIC DOSIMETRY AND PHANTOM AND DETECTOR DEVELOPMENTS/CHARACTERISATION

- > Theoretical models for volume recombination in scanned proton beams
H. Palmans (United Kingdom)
- > Changes in absorbed dose to water for high-energy electron beams by beam quality correction factor
N. Kinoshita (Japan), A. Takemura, A. Toi, A. Kita, Y. Nishimoto, T. Adachi, H. Shioura, H. Kimura
- > Dosimetric characterisation of a commercial plastic scintillator detector for its application to QA in EBRT
N. Jornet (Spain), P. Carrasco de Fez, A. Latorre-Musoll, O. Jordi, M. Lizondo, A. Ruiz, T. Eudaldo, M. Ribas
- > Validation of glass bead TLDs for radiotherapy treatment verification
S.M. Jafari (United Kingdom), G. Distefano, D.A. Bradley, N.M. Spyrou, A. Nisbet, C.H. Clark
- > Detector choice for small-field Stereotactic Radiosurgery (SRS) beam characterisation
N. Suchowerska (Australia), M.K. Tyler, P.Z.Y. Liu, K.W. Chan, A. Ralston, D. McKenzie, S.J. Downes

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

- > Dosimetric characterisation of glass bead TLDs in proton beams
R.A.S. Thomas (United Kingdom), S.M. Jafari, D.A. Bradley, N.M. Spyrou, A. Nisbet, C.H. Clark
- > Characteristics of tissue-equivalent thermoluminescence and photo-stimulated luminescence sheets
C. Kurokawa (Japan), A. Urushiyama, T. Nishio
- > A study of dose rate dependence of the Ocatavius1000 SRS array for Flattening Filter Free and Flattened photon beams
E. Gete (Canada), C. Duzenli, T. Karan, V. Strgar
- > Implementation of a solid state phantom for dosimetric measurements at arbitrary gantry angles for ion beams
K. Henkner (Germany), M. Winter, G. Echner, S. Brons, O. Jäkel, C. Karger
- > Geant4 Monte Carlo simulations of a microdosimetric Tissue Equivalent Proportional Counter for carbon ion therapy
S. Galer (United Kingdom), D. Shipley, L. Hao, H. Palmans, K. Kirkby, A. Nisbet
- > Characterization of CdSe quantum dots under irradiation by photon beams for x-ray and linac-based dosimetry
M. Delage (Canada), M. Lecavalier, D. Lariviere, C. Allen, L. Beaulieu
- > Visualization of inhomogeneities in a phantom irradiated by carbon ion beams using prompt secondary ions
T. Gaa (Germany), M. Reinhard, G. Arico, B. Hartmann, L. Opalka, J. Jakubek, S. Pospisil, O. Jäkel, M. Martisikova
- > Dosi-MeV*, a new electron in vivo dosimeter for external radiotherapy
C. Khamphan (France), M.E. Alayrach, L. Simon, R. Ferrand, R. Garcia
- > Characterisation of a graphite calorimeter in proton pencil beams
L.M. Petrie (United Kingdom), R.A.S. Thomas, N.D. Lee, S. Galer, M. Bailey, D.R. Shipley, A. Kacperek, H. Palmans
- > Experimental determination of megavoltage electron beam kR50 factors using water calorimetry
J. Renaud (Canada), A. Sarfehnia, K. Marchant, M. McEwen, C. Ross, J. Seuntjens
- > VMAT verification, commissioning and QA based on MC simulation
A.R. Barbeiro (Spain), A. Ureba, J.A. Baeza, J.C. Mateos, S. Velázquez, R. Linares, E. Jiménez-Ortega, A. Leal

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POSTERS

- > Scanning protocol improvements in Gafchromic EBT-x dosimetry
K. Buchauer (Switzerland), J. Schiefer, L. Plasswilm

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PHYSICS TRACK: DOSE MEASUREMENTS

- > Sensitivity of VMAT patient specific QC results to linac calibration errors using two "3D" measurement devices
E. Gershkevitch (Estonia), M. Gershkevitch
- > Statistical analysis of epid-based in-vivo dosimetry results for 3DCRT
A. Fidanzi (Italy), L. Azario, F. Greco, E. Placidi, A. Piermattei
- > Characterisation and evaluation of portal dosimetry for flattening filter free (FFF) radiotherapy
R. Chuter (United Kingdom), P. Rixham, S. Weston
- > From gamma passing-rate to DVH: Validation and first clinic applications of a commercial software
L. Marrazzo (Italy), S. Calusi, M. Casati, C. Arilli, M. Bucciolini
- > Preclinical PET-based dose painting on a clinical linac: Methodological developments and dosimetric accuracy
D. Trani (The Netherlands), B. Reniers, L. Persoon, M. Podesta, L. Dubois, F. Verhaegen, P. Lambin
- > 2D versus 3D gamma index sensitivity and the impact of detector array resolution
M. Hussein (United Kingdom), A. Nisbet, C.H. Clark
- > Clinical experience in the use of transit dosimetry for breast cancer treatment
S. Celi (France), P. François, E. Costa, J.L. Dumas
- > Pre-treatment IMRT quality assurance: from ROC curves to Quantec constraints
S. Bresciani (Italy), A. Miranti, A. Maggio, A. Di Dia, M. Stasi
- > In vivo dosimetry for 3D-CRT treatments – A detailed analysis of 2383 patient measurements
E. Nordström (Sweden)

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PHYSICS TRACK: DOSE CALCULATION

- > Utility of CBCT data sets for dose calculation in H&N IMRT using bulk mass density for limited structures
K. Mohan (India), P.V. Srinivas, N. Raju, D. Mangesh, C. Rupal
- > RayStation vs Pinnacle modelling and system performance: Implications for small field dosimetry
B. Mzenda (New Zealand), K.V. Mugabe, R. Sims, D. Loria
- > Impact of Acuros XB on dose distribution for 4-MV photon beam in head and neck IMRT
K. Hirata (Japan), M. Nakamura, M. Yoshimura, N. Mukumoto, H. Ito, H. Inokuchi, Y. Matsuo, T. Mizowaki, M. Hiraoka
- > Impact of tissue assignment for preclinical radiotherapy: A dose-volume histogram analysis
C. Noblet (France), S. Chiavassa, F. Paris, J. Suhard, A. Lisbona, G. Delpon
- > Validation of a MC-based dose calculation environment for feasibility of IORT in prostate cancer with INTRABEAM®
S. Chiavassa (France), C. Hervé, F. Buge, J. Rigaud, S. Supiot, A. Lisbona, G. Delpon
- > On the dose to air cavities in SBRT lung treatments
A. Fogliata (Switzerland), G. Nicolini, E. Vanetti, A. Clivio, M.F. Belosi, L. Cozzi
- > Acuros XB algorithm sensitivity to Hounsfield Units
D. Jurado-Bruggeman (Spain), C. Muñoz-Montplet, I. Romera-Martínez, S. Agramunt-Chaler
- > Dosimetric impact of Acuros XB dose calculation algorithm on PTV in head and neck treatments using VMAT
C. Muñoz Montplet (Spain), I. Romera Martínez, D. Jurado Bruggeman, S. Agramunt Chaler, E. Oliva Poch, L. Anglada Tort
- > Effect of prosthetic implants on Collapsed Cone algorithm comparison with GAMOS Monte Carlo and film dosimetry
D. Akçay (Turkey), F. Akman, Z. Karagüler, K. Akgüngör

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POSTERS

- > Routine application of fully automated independent 3D dose calculation prior to and during fractionated treatment
W. Schillemans (The Netherlands), Y. Seppenwolde, H. Akhiat, X. Van Doorn, A. Kanis, N. Linton, B. Heijmen, M. Dirkx
PO-0826
- > Validation of a phase space determination algorithm for intra-operative radiation therapy
P. Ibáñez (Spain), M. Vidal, R. García-Marcos, E. Herranz, P. Guerra, J.A. Calama, M.A. Infante, M.E. Lavado, J.M. Udías
PO-0827
- > Dose calculation accuracy in the build-up region of flattening filter-free photon beams
A. De Puysseleer (Belgium), W. Lechner, D. Georg, C. De Wagter
PO-0828
- > Calculating dose distributions in cone beam CT for head and neck adaptive radiotherapy
G. Ntentas (United Kingdom), C. Thomas, T. Greener
PO-0829
- > A new method for dose reconstruction utilizing PET-CT in patients treated with radioembolization
E. Fourkal (USA), I. Veltchev, J. Meyer, M. Johnson, M. Doss, J. Yu
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PHYSICS TRACK: TREATMENT PLANNING AND PLAN COMPARISONS

- > A feasibility multicenter SBRT planning study on prostate cancer over 17 centers
C. Marino (Italy), M. Esposito, L. Strigari, D. Fedele, C. Fiandra, M.R. Malisan, E. Bonanno, C. Carbonini, M.R. Nardiello, P. Mancosu
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- > Dosimetric comparison between robotic and linac-based stereotactic body radiation therapy for spinal tumors
M.I. Monterroso (USA), E. Bossart, B. Ly, I. Mihaylov
PO-0832
- > A method of identifying planning system accuracy limitations in step and shoot IMRT
L.S.H. Bendall (United Kingdom), M. Trainer, C.J. Boylan, M.J. Hardy
PO-0833
- > Investigation of an inverse planning system for MERT as a function of beam setup and dose constraints
A. Joosten (Switzerland), D. Henzen, W. Volken, D. Frei, K. Lössl, P. Manser, M.K. Fix
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POSTERS

- > Dosimetric comparison between flattened and unflattened beams for lung SBRT
G. Nicolini (Switzerland), A. Fogliata, A. Clivio, E. Vanetti, M.F. Belosi, F. Martucci, A. Richetti, M.C. Valli, L. Cozzi
PO-0835
- > Coronary arteries preservation through VMAT use in adjuvant left breast cancer irradiation
C. Bourcier (France), C. Lemanski, L. Bedos, O. Riou, J. Molinier, C. Llacer-Moscardo, N. Aillères, D. Azria, P. Fenoglio
PO-0836
- > Are dose constraints satisfied in SBRT trials? A planning study over 12 centers
M. Esposito (Italy), C. Marino, G. Maggi, M. Casale, P. Chiovati, V. D'Alesio, V. Landoni, C. Carbonini, L. Strigari, P. Mancosu
PO-0837
- > Impact of collimator leaf width and VMAT optimization algorithm on whole brain irradiation with hippocampal sparing
V. Prokic (Germany), A.L. Grosu
PO-0838
- > Dosimetric analysis of mid-position vs ITV conformational plans for locally advanced NSCLC. Preliminary results
M. Ayadi-Zahra (France), G. Bouilhol, A. Krason, S. Rit, P. Dupuis, L. Claude, D. Sarrut
PO-0839
- > Impact of intra-fractional liver motions on FDGal-PET guided functional avoidance SBRT using scanning proton beams
J.B.B. Petersen (Denmark), P.R. Poulsen, E.S. Worm, A.T. Hansen, M. Sørensen, S. Keiding, C. Grau, M. Høyer
PO-0840
- > VMAT radiosurgery with flattening filter free photon beams for benign brain lesions in comparison to GammaKnife
U. Abacioglu (Turkey), Z. Ozen, M. Yilmaz, A. Arifoglu, B. Gunham, N. Kayalilar, S. Peker, M. Sengoz, S. Gurdalli, L. Cozzi
PO-0841
- > Hypofractionated IMRT treatment delivery for breast cancer patients in prone position
S. Vieira (Portugal), E.C. Moser, C. Varandas, A. Soares, J.C. Stroom, A. Machado, J. Marques, D. Mateus, A.L. Vasconcelos, C. Greco
PO-0842
- > Tomotherapy vs. VMAT for otal marrow irradiation
L. Matulewicz (Poland), M. Radwan, L. Miszczuk, S. Giebel, K. Slosarek
PO-0843
- > Parotid sparing in IMRT treatment - A study comparing clinical practice with Quantec recommendations
M. Moore (Ireland Republic of), S. Cleary, J. Martin,
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POSTERS

- > Clinical evaluation of DIBH radiotherapy to reduce cardiac mortality in left-sided breast cancer patients
C. Furlong (United Kingdom), R. Sripadam, L. Richards, A. Baker, Z. Malik, C. Baker
- > Simultaneous stereotactic irradiation of 4 brain metastases using RapidArc FF and FFF techniques
L.L. Rasmussen (Denmark), L. Ohlhues, T.M. Haskå, L. Fog, J.P. Bangsgaard
- > Parotid gland volume and average dose variations in head and neck cancer patients treated with IMRT: a case series
N. Pace (Italy), L. Menegotti

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PHYSICS TRACK: TREATMENT PLAN OPTIMISATION

- > Towards automated treatment planning in radiotherapy
S. Breedveld (The Netherlands)
- > A method to estimate sweeping window arc therapy (SWAT) treatment plan robustness
J. Fleckenstein (Germany), J. Hesser, F. Wenz, F. Lohr
- > Methods for robustness evaluation of proton scanning beams treatment plans
L. Widesott (Italy), D. Ravanelli, G. Gargano, A. Lomax, M. Schwarz

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PHYSICS TRACK: RADIOBIOLOGICAL MODELLING

- > LQ model with large fraction sizes leads to underestimation of isoeffect doses
H. Thames (USA), T. Sheu, J. Molkentine, M. Transtrum, T. Buchholz, H.R. Withers, K. Mason
- > Kinetic models for predicting cervical cancer response to radiotherapy (RapidArc™, Trilogy by Varian)
A. Ceconi (Italy), A. Belfatto, D. Ciardo, R. Lazzari, M. Garbey, M. Riboldi, P. Cerveri, G. Baroni, B.A. Jerezek-Fossa, R. Orecchia

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POSTERS

- > Multivariate NTCP modeling of radiation damage to the cardio-pulmonary system: the Hodgkin lymphoma paradigm
L. Cella (Italy), R. Liuzzi, V. D'Avino, A. Frezza, M. Conson, N. Pugliese, M. Picardi, M. Salvatore, R. Pacelli
- > Development of an in-silico experimentation model to identify the best predictors of radio-induced late toxicity
F. Civardi (Italy), R. Valdagni, G. Fellin, V. Vavassori, C. Fiorino, T. Rancati
- > Model-free investigation of the dose-volume-response of radiation pneumonitis by principal component analysis
C.M. Lutz (Denmark), A. Tröller, D.S. Møller, A.A. Khalil, M. Söhn, L. Hoffmann, M. Alber
- > Planning comparison of MV vs kV homogeneous radiation treatment for pre-clinical studies with rat flank tumors
S.J. Van Hoof (The Netherlands), P.V. Granton, P. Lambin, F. Verhaegen, D. Trani
- > IMPT may reduce risk for cardiac mortality and secondary cancers compared to 3D-CRT and IMRT for Hodgkin's Lymphoma
A. Toltz (Canada), N. Shin, E. Mitrou, C. Laude, D. Roberge, C. Freeman, J. Seuntjens, W. Parker
- > Identifying relationships between patient-reported outcomes in multiple radiotherapy cohorts
M. Thor (USA), C. Olsson, S.E. Petersen, D. Alsadius, M. Høyer, N. Pettersson, L. Bentzen, J. Deasy, L. Muren, G. Steineck
- > Estimated effect of overall treatment time on the risk of late rectal toxicity
M.C. Aznar (Denmark), S.M. Bentzen, P.M. Pedersen, I.R. Vogelius
- > Disregarding RBE variation in treatment plan comparison may lead to bias in favor of proton therapy
M. Wedenberg (Sweden), I. Toma-Dasu

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PHYSICS TRACK: INTRAFRACTION MOTION MANAGEMENT

- > Three-dimensional liver motion tracking using 2D real-time MRI
L. Brix (Denmark), S. Ringgaard, T. Sangild Sørensen, P. Rugaard Poulsen

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POSTERS

- > Comparison of two commercially available real-time tumor tracking solutions in a phantom study
T. Depuydt (Belgium), M. Croisé, T. Lacornerie, K. Poels, D. Verellen, G. Storme, M. De Ridder
- > Intra-fraction baseline shift and margin analysis based on 4DCBCT during frameless lung stereotactic radiotherapy
S. Thengumpallil (Switzerland), J.F. Germond, N. Peguret, M. Ozsahin, J. Bourhis, F. Bochud, R. Moeckli
- > Four-dimensional measurement of lung tumours and implanted gold markers by 320-slice CT scan
Y. Iizuka (Japan), Y. Matsuo, T. Shiozumi, N. Ueki, T. Kishi, S. Kozawa, T. Takakura, M. Nakamura, T. Mizowaki, M. Hiraoka
- > Setup accuracy and residual motion in daily image guided treatment of breast patients in deep inspiration breath hold
M.S. Thomsen (Denmark), C.M. Lutz, W. Fledelius, B. Offersen, P.R. Poulsen
- > A novel protocol for CBCT-based correction of inter- and intra-fraction setup errors
S.L.S. Kwa (The Netherlands), S.O.S. Osman, A. Al-Mamgani, A. Gangsaas, P.C. Levendag, B.J.M. Heijmen
- > Patient-specific quality assurance for intensity-modulated dynamic tumor-tracking radiotherapy with Vero4DRT
N. Mukumoto (Japan), M. Nakamura, M. Yamada, K. Takahashi, Y. Miyabe, A. Nakamura, S. Itasaka, T. Mizowaki, M. Kokubo, M. Hiraoka
- > Robustness of the breath-hold approach for early stage lung cancer with spot scanned proton therapy
J. Dueck (Denmark), A. Knopf, F. Albertini, G. Persson, M. Josipovic, M. Aznar, T. Lomax, P. Munck af Rosenschöld
- > Target volume margins: position variations of pancreatic intratumoral fiducials on 4DCT and CBCT
A. Van der Horst (The Netherlands), E. Lens, S. Wognum, R. De Jong, P.S. Kroon, R. Dávila Fajardo, P. Fockens, J.E. Van Hooft, G. Van Tienhoven, A. Bel
- > A new margin concept for motion compensation during stereotactic treatment of lung tumors
C. Schubert (Germany), N. Escobar-Corral, A. Schmachtenberg, A. Stahl, M.J. Eble

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PHYSICS TRACK: MANAGEMENT OF INTERFRACTION CHANGES

- > Plan-of-the-day strategy in IMRT treatment of cervical cancer – when to use and when not
M. Van den Bosch (The Netherlands), H. Van den Berg, K. De Jaeger, E. Hagelaar, M. Palmes, J. Steenhuijsen, D. Schuring
- > Impact of interfractional anatomical changes in intensity modulated photon and proton therapy of head & neck cancer
B.S. Müller (Germany), M.N. Duma, S. Kampfer, H. Geinitz, J.J. Wilkens
- > IMPT & VMAT sensitivity to anatomical variations - replanning strategies for advanced head and neck cancer
J. Gora (Austria), P. Kuess, M. Stock, G. Altorjai, B. Knaeusl, D. Georg
- > Aggregate proton therapy uncertainties for single vs. multiple daily fields
E. Klein (USA), K.G. Grantham, B. Bottani, T. Zhao, J. Bradley
- > A framework for the validation of actual delivered dose estimation strategies
Y.G. Roussakis (United Kingdom), H. Dehghani, S. Green, G.J. Webster
- > Quantitative evaluation of manual and automatic plan-of-the-day procedures for bladder cancer radiotherapy
S. Wognum, L. Bondar, M.C.C.M. Hulshof, M.S. Hoogeman, A. Bel (The Netherlands)
- > First experience with the use of gold markers for image guidance in esophageal cancer radiotherapy
P. Jin (The Netherlands), M.C.C.M. Hulshof, M.A.J. De Jong, J.E. Van Hooft, A. Van der Horst, N. Van Wieringen, M. Machiels, A. Bel, T. Alderliesten
- > MRI-based adaptive treatment planning for stereotactic radiotherapy of spinal bone metastases
S.J. Hoogcarspel (The Netherlands), J.M. Van der Velden, M.E. Philippens, E. Seravalli, M. Van Vulpen, J.J.W. Lagendijk, B.W. Raaymakers
- > Dosimetric fluence correction in non-rigid IMRT adaptation: preserving the penumbra margin
W. Crijns (Belgium), G. Defraene, H. Van Herck, P. Slagmolen, K. Haustermans, F. Maes, F. Van den Heuvel

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POSTERS

- > Validity of dose shift-deformation invariance assumption for dose accumulation in head & neck radiotherapy
S. Van Kranen (The Netherlands), A. Wolf, S. Van Beek, O. Hamming-Vrieze, M. Van Herk, J.J. Sonke
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PO-0880
- > Anatomical markers of parotid overdosage during IMRT for locally advanced H&N guiding an adaptive RT strategy
L. Castelli (France), A. Simon, O. Henry, J.D. Arango Ospina, E. Chajon, M. Nassef, G. Louvel, F. Jegoux, B. Laguerre, R. De Crevoisier
PO-0881
- > An automated framework for systematic dosimetric assessment of head-and-neck radiotherapy
X. Qi (USA), J. Neylon, Y. Min, R. Staton, J. Pukala, R. Manon, M. Steinberg, A. Chen, D. Low, A. Santhanam
PO-0882
- > Dosimetric evaluation of four patients treated with adaptive radiotherapy for bladder cancer
L.J. Lutkenhaus (The Netherlands), J. Visser, M.C.C.M. Hulshof, M.A.J. De Jong, C. Hazelaar, A. Bel
PO-0883
- > Implementation of soft tissue match using daily CBCTs for lung cancer patients results in reduced dose to lung
T.B. Nyeng (Denmark), L. Hoffmann, A.A. Khalil, M.M. Knap, D.S. Moeller
PO-0884
- > Validation of implanted fiducial gold markers for set up verification of breast cancer patients during radiotherapy
V. Althof (The Netherlands), D. Koopman, T. Eiland, M. Boerhof, K. Meems, I. Stoltenborg, M. Kramer
PO-0885
- > Alternatives to the PTV concept for dose escalation of pelvic lymph nodes in cervical cancer
M. Assenholt (Denmark), M. Alber, L. Nyvang, D. Møller, L. Fokdal, J. Lindegaard, K. Tanderup
PO-0886
- > Motion-inclusive rectum and bladder doses in prostate IMRT and their deviations from planned distributions
M. Thor, L. Bentzen, L.B. Hysing, L.P. Muren (Denmark)
PO-0887
- > Fast calculation of dose coverage probability in fractionated IMRT
D. Tilly (Sweden), A. Ahnesjö
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POSTERS

- > Assessment of setup in 123 breast cancer radiotherapy patients using daily megavoltage computed tomography
K. Schombourg (Switzerland), N. Corradini, G. Ballerini, A. Franzetti Pellanda
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PO-0889
- > Intra-fractional changes and the robustness of adaptive plan selection in radiotherapy for bladder cancer
A. Vestergaard (Denmark), M. Høyer, M.L. Alber, M. Söhn, E.M. Pedersen, J.B.B. Petersen, L.P. Muren
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■ Poster

PHYSICS TRACK: IMAGING: FOCUS ON CLINICAL APPLICATIONS

- > Geometrical accuracy of diffusion-weighted magnetic resonance imaging for prostate and rectum
M.T.W. Milder (The Netherlands), D.L. Polders, U.A. Van der Heide
PO-0891
- > Introduction of image lag correction on clinical cone-beam CT systems
L.S. Ploeger (The Netherlands), U. Stankovic, C. Panneman, M. Van Herk, J.J. Sonke
PO-0892
- > Validation of deformable registrations of head & neck contours done in a clinical software environment
D. Grant (Denmark), A. Logadottir, W. Sapru, B. Kristensen, L. Specht, C. Kristensen, I. Vogelius, M.C. Aznar, J.P. Bangsgaard
PO-0893
- > DTI and attention function. Dose-response evaluation in partial brain irradiation
M. Conson (Italy), L. Cella, M. Comerci, A. Faiella, R. Liuzzi, A. Albano, M. Salvatore, R. Pacelli, M. Quarantelli
PO-0894
- > Dual energy CBCT imaging for tissue characterization using a dedicated small animal radiotherapy platform
G. Landry (Germany), P. Jelvehgaran, M. Gaudreault, P.V. Granton, F. Verhaegen
PO-0895
- > Dynamic characterization of structural and anatomical changes of parotid glands during IMRT using texture analysis
E. Scalco (Italy), C. Fiorino, M.L. Belli, P. Bassanini, G. Sanguineti, V. Valentini, N. Dinapoli, G.M. Cattaneo, G. Rizzo
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POSTERS

- > A new method to segment advanced stage lung tumors in joint PET-CT data using a patient-specific learning approach
V. Gupta (India), F. Frank Verhaegen, S. Venkatesan, P. Keswarpu, W. Van Elmpt
- > In-vivo dosimetric evaluation of an atlas based labeling technique using MR DIXON for MR-only RT treatment planning
M. Frantzen-Stenecker (The Netherlands), M. Helle, H. Schulz, S. Renisch, N. Schadewaldt, A. Wolf, R. Rozendaal, S. Van Kranen, E. Alpay, U. Van der Heide
- > Lymphnodes shrinkage measured during RT by daily MVCT predicts tumour relapses of head-and-neck cancer
M.L. Belli (Italy), F. Zerbetto, R. Raso, G.M. Cattaneo, A. Chiara, I. Dell'Oca, C. Fiorino, N. Di Muzio, R. Calandrino
- > Evaluating tumour response of NSCLC patients with FDG-PET: potential for treatment individualisation
L. Toma-Dasu (Sweden), J. Uhrdin, A. Dasu, S. Carvalho, W. Van Elmpt, P. Lambin
- > Establishing adequately visible endoscopically implantable gold markers for CT, cone-beam CT and MRI
O.J. Gurney-Champion (The Netherlands), E. Lens, A. Van der Horst, A.C. Houweling, J.E. Van Hoof, J. Stoker, G. Van Tienhoven, A.J. Nederveen, A. Bel
- > Repeatability of MRI-based diffusion measurements of oesophageal cancer
A. Van Lier (The Netherlands), P.S.N. Van Rossum, G.J. Meijer, C.A.T. Van den Berg, M.E.P. Philippens, J.J.W. Lagendijk, M. Van Vulpen, I.M. Lips
- > Optimising 4DPETCT imaging protocols for radiotherapy treatment planning of lung, upper GI and pancreas carcinomas
A. Selvan (United Kingdom), N. Harrold, S.L. Wright, R.J. Speight, G.M. McDermott, J.R. Sykes, D. Keane, G. Radhakrishna, P. Arce-Calisaya, A.F. Scarsbrook
- > Quantitative assessment of vascular changes in late oral radiation toxicity patients
B. Davoudi (Canada), K. Bizheva, R. Dimmiwell, W. Levin, A.I. Vitkin

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POSTERS

- > A sinogram warping strategy for pre-reconstruction 4D PET optimization in ion beam therapy application
C. Gianoli (Italy), M. Riboldi, C. Kurz, K. Parodi, G. Baroni
- > An auto-delineation study for hippocampus sparing whole brain radiotherapy
J.M. Edmund (Denmark), J.A.L. Andersen, L. Ohlhues, E.E. Wilken
- > Comparison of quantitative and clinical assessment of deformable image registration of CT and MRI for H&N patients
R. Speight, A. Perkinson, D. Smith, J. Sykes, R. Prestwich, M. Sen, S. Ramasamy, S. Wright, A. Selvan (United Kingdom)
- > Comparing deformable and rigid image registration to assess pelvic cancer relapses following chemo-radiotherapy
L. Durrant (United Kingdom), K. Hyde, R. Muirhead
- > CT density changes in the lungs after SBRT are dependent on the baseline HU of the irradiated lung
G. Defraene (Belgium), W. Crijs, F. Van den Heuvel, D. De Ruyscher
- > Beyond the mean apparent diffusion coefficient: multi-parametric analysis of diffusion-weighted imaging
H. Nissen (Denmark)
- > Comparing two FMISO PET parameters with respect to treatment outcome prediction in head-and-neck carcinomas
D. Moennich (Germany), S. Welz, C. Pfannenber, D. Zips, D. Thorwarth

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■ Poster

PHYSICS TRACK: IMAGING: FOCUS ON QA AND TECHNICAL ASPECTS

- > Dosimetric assessment of state of the art image guidance procedures using radiochromic films
S. Aldelaijan (Saudi Arabia), A. Nobah, S. Devic, N. Tomic, J. Seuntjens, B. Mofteh
- > Commissioning and acceptance testing of a dedicated 3T MRI simulator for radiotherapy treatment planning
A. Xing, G. Liney, L. Holloway (Australia), S. Arumugam, E. Juresic, L. Cassapi, G. Goozee

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POSTERS

- > Simultaneous estimation of input functions from dynamic 18F-FLT studies of the head and neck
S. Hackett (United Kingdom), D. Liu, A. Chalkidou, P. Marsden, D. Landau, J. Fenwick
- > End-to-End tests in linac based Stereotactic Radiosurgery and Radiotherapy using a new phantom
S. Scheib (Switzerland), P. Schmelzer, J. Krayenbuehl, S. Lang
- > Evaluation of a new motion correction algorithm for PET/CT images and its impact on imaged maximum SUV
D.R. McGowan (United Kingdom), J.D. Fenwick
- > non-isocentric cone-beam computed tomography reconstruction and artifact suppression
P. Keuschnigg (Austria), H. Deutschmann, H. Weichenberger, F. Sedlmayer, P. Steininger
- > Development of a combined in-room imaging and patient alignment system
P. Steininger (Austria), M. Mehrwald, H. Weichenberger, B. Mitterlechner, M. Pinzger, A. Boehler, R. Meier, T. Ruzicka, F. Sedlmayer, H. Deutschmann
- > A full Monte Carlo model to correct for scatter in clinical CBCT images
R.S. Thing (Denmark), E. Mainegra-Hing, U. Bernchou, C. Brink
- > Quality assurance of radiologic images - Focal spot measurements for a dual energy X-ray tube
H. Schödl (Austria), H. Weichenberger, F. Sedlmayer, H. Deutschmann
- > Simulation of x-ray images from the planning CT for online correction of scatter in cone-beam CT
S. Rit (France), E. Romero, M. Vila Oliva, S. Brousmiche, D. Sarrut, J.M. Létang, N. Freud

■ Poster

PHYSICS TRACK: IMPLEMENTATION OF TECHNOLOGY, TECHNIQUES, CLINICAL PROTOCOLS OR TRIALS

- > Alternate criteria for the Radiological Physics Center's IMRT anthropomorphic phantoms
A. Molineu (USA), P. Alvarez, S. Kry, D. Followill

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POSTERS

- > Deformable registration using python scripting for adaptive RT automation
G. Guidi (Italy), C. Vecchi, N. Maffei, G. Gottardi, M.G. Mistretta, G. Baldazzi, T. Costi
- > Accuracy requirements and uncertainties in radiation therapy: The new IAEA report
B. Mijnheer (The Netherlands)
- > Redefining the checking process - an evidence-based approach
P. McBride (Ireland Republic of), C. Kelly, B. McClean
- > Evidence based quality assurance of volumetric modulated arc therapy
H. Tümmler (Germany), C. Bellmann, P. Schilling, A. Schreiber
- > Stereotactic image-guided intraoperative electron irradiation: proof of concept and clinical feasibility
F. Calvo (Spain), E. Marinetto, V. García-Vázquez, J.A. Santos-Miranda, C.V. Sole, M. Desco, J. Pascau
- > Development of a national audit program for dynamic therapy
B. Reniers (Belgium), W. Schroeyers, N. Reulens, S. Schreurs
- > Importance of combining phantom-less patient specific quality control and linac specific quality control in VMAT
A. Agnew (United Kingdom), C.E. Agnew, M.W.D. Grattan, A.R. Hounsell, C.K. McGarry
- > From random sampling QA to digital central review QA of multicentre clinical H&N radiotherapy protocols in DAHANCA
E. Samsøe (Denmark), E. Andersen, C.R. Hansen, J. Johansen, H.M.B. Sand, L.J. Andersen, J.B.B. Petersen, K. Jensen, C. Brink, C. Grau
- > Image quality and registration uncertainty in image guided deep inspiration breath hold radiotherapy of lung cancer
M. Josipovic (Denmark), G.F. Persson, G. Westman, J.P. Bangsgaard, L. Specht, M.C. Aznar
- > Multilevel QA of dynamic linac parameters: The correlation of logfiles with delivery accuracy for VMAT
M. Pasler (Germany), J. Kaas, T. Perik, J. Geuze, R. Dreindl, D. Georg, F. Wittkamper

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POSTERS

- > A centralized data management system of heterogeneous data sources for radiation therapy
O. Diesenbacher (Austria), M. Memelink, F. Sedlmayer, H. Deutschmann, P. Steininger
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- > Dosimetric advantage of Protura 6DOF robotic couch in prostate RapidArc treatment plan
S. Chiesa (Italy), L. Placidi, L. Azario, G.C. Mattiucci, A. Damiani, G. Mantini, V. Frascino, A.R. Alitto, V. Valentini, M. Balducci
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- > Development of an open-source software platform for conventional and particle therapy
P. Steininger (Austria), M. Mehrwald, D. Kellner, M. Pinzger, M. Mitterlechner, M. Memelink, P. Keuschnigg, A. Böhler, F. Sedlmayer, H. Deutschmann (Austria)
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- > Towards trial eligibility support from unstructured data: making the best of uncertainty
M.S. Marshall (The Netherlands), K. Van den Berg, J. Paulissen, P. Lambin, A. Dekker
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PHYSICS TRACK: RADIATION PROTECTION

- > Radiation exposure for operators working at a proton therapy facility
S. Lorentini (Italy), I. Giovannini, M. Schwarz
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RADIOBIOLOGY TRACK: MOLECULAR TARGETED AGENTS AND RADIOTHERAPY

- > Dynamic nature of radioresistant cancer stem cells
C. Peitzsch (Germany), M. Cojoc, F. Trautmann, A. Dubrovskaya
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- > Surface EGFR levels rather than intrinsic radiosensitivity predict response to In-DTPA-hEGF in solid cancers
C. Chan (United Kingdom), B. Cornelissen, K. Vallis, J. Honeychurch, T. Illidge
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- > Radiosensitization effect of nitric oxide (NO) produced by ultrasonication during simultaneous radiotherapy
Y. Sugita (Japan), Y. Ishiguro, N. Nozaki, T. Nomura, H. Takahashi, N. Fukuyama, T. Ishikawa, J. Kubota, M. Hashimoto
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- > MEK/ERK inhibition radiosensitizes rhabdomyosarcoma cells by down-regulating growth and DNA repair signals
E. Marampon (Italy), G.L. Gravina, M.E. La Verghetta, M. Cerasani, S. Parente, M. Mancini, D. Di Genova, L. Ferella, M. Reale, E. Di Cesare
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- > MEK/ERK-AURORA-B/DNA-PK Pathway activation regulates radioresistance of gynecological cancer cell lines
E. Marampon (Italy), M.E. La Verghetta, M. Cerasani, G.L. Gravina, S. Parente, M. Mancini, D. Di Genova, L. Ferella, M. Reale, E. Di Cesare
PO-0942
- > Systematic 18F-FDG PET and immunohistochemistry analysis for differentiation between head and neck tumors
B. Hoeben (The Netherlands), M.H.W. Starmans, R.T.H. Leijenaar, L.J. Dubois, A.J. Van der Kogel, J.H.A.M. Kaanders, P.N. Boutros, J. Bussink
PO-0943
- > FTS (Fused Toes Homolog) is required for radiation-induced nuclear translocation and phosphorylation of EGFR
W. Park (Korea Republic of), S. Muthusami, P. DS, J. Yu
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- > Small Molecule HQ5 as a multimodal imaging agent for radiotherapy-induced tumor cell death
M.A. Stammes (The Netherlands), A. Maeda, E.R. Beek van, T.J.A. Snoeks, R.S. DaCosta, C.W.G.M. Löwik
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- > Targeting HOX proteins to enhance radiotherapy in glioblastoma
T. Brend (United Kingdom), H. Payne, H. King, R. Morgan, M. Ajaz, H. Pandha, S.C. Short
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- > Wee1-inhibition, radiation and hypoxia
S. Hauge (Norway), G. Hasvold, V. Nähse-Kumpf, R.G. Syljuasen
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- > Targeting the tumor-initiating cell niche in recurrent head and neck squamous cell carcinoma
S. Bornstein (USA), C. Kernan, S. Watson, J. Korkola, J. Gray, M.H. Wong, C.R. Thomas
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- > The efficiency of radiotherapy in the treatment of glioblastoma is enhanced by chloroquine.
H. Bühler (Germany), B. Priesch-Grzeszkowiak, P. Nguemgo-Kouam, K. Fakhrian, I.A. Adamietz
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RADIOBIOLOGY TRACK: TUMOUR MICROENVIRONMENT, HYPOXIA AND ANGIOGENESIS

- > Nitroglycerin decreases the hypoxic fraction in non-small cell lung cancer: an imaging study using [18F]HX4 PET
B. Reymen (The Netherlands), C. Zegers, W. Van Elmpt, F. Mottaghy, A.D. Windhorst, A. Van Baardwijk, F. Hoebers, E. Troost, D. De Ruyscher, P. Lambin
- > 18F-FAZA PET as a prognostic marker of the response to radiotherapy in rat tumor models
B. Gallez (Belgium), L.B.A. Tran, A. Bol, D. Labar, B.F. Jordan, V. Gregoire
- > Variation in dynamic 18FFDG PET parameters in breast cancer PDX and correlation to treatment outcome
A. Kristian (Norway), M.E. Revheim, G. Mælandsmo, O. Engebråten, E. Malinen
- > Modelling oxygen distribution in multicellular tumour spheroids
D.R. Grimes (United Kingdom), M. Partridge
- > Impact of neoadjuvant radiotherapy on tumor inflammatory microenvironment and metastases
N. Leroi, A. Noel, S. Blacher, E. Lenaerts, P. Coucke, P. Martinive (Belgium)
- > Improving the radio-sensitizing effect of sunitinib by drug-specific scheduling
E. Kleibeuker (The Netherlands), K.C. Castricum, M. Ten Hooven, J. Van den Berg, A.W. Griffioen, B.J. Slotman, H.M. Verheul, V.L. Thijssen
- > Vascular Endothelial Growth Factor (VEGF) expression by neoplastic Hodgkin-Reed-Sternberg cells
M. Casasús (Spain), A. Gutiérrez, F. Mestre, C. Nicolau, J. Rodríguez, R.3. Ramos
- > Effect of post-irradiation exposure to hypoxia on radiation sensitivity and residual gammaH2AX foci
F. Hauth (Germany), D. Zips, A. Menegakis
- > Hypoxia in tumor and LN metastases in course of radiochemotherapy of advanced head-and-neck cancers
A. Bandurska-Luque (Germany), N. Abolmaali, R. Haase, S. Löck, D. Zips, K. Zöphel, R. Perrin, C. Richter, M. Krause, M. Baumann

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RADIOBIOLOGY TRACK: NORMAL TISSUE EFFECTS: PATHOGENESIS AND TREATMENT

- > Adipose mesenchymal stromal cells are stable candidate for radiation oncology regenerative medicine
O. Maria (Canada), N. Eliopoulos, T. Muanza
- > Clinical application of a new pharmaceutical formulation of melatonin against radiotherapy-induced mucositis
G. Escames (Spain), F. Ortiz, R. Vergano-Villodres, J. Guerrero-Martínez, D. Acuña-Castroviejo, L.C. López, A. Martínez Unica, M. Martínez Carrillo, I. Tovar-Martin, J. Expósito Hernández
- > Estimation of α/β ratio for late rectal toxicity from localized prostate cancer irradiation
J. Zhu (France), A. Simon, A. Bossi, T. Messai, J.D. Ospina, B. Li, H. Shu, R. De Crevoisier

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RADIOBIOLOGY TRACK: PREDICTIVE ASSAYS/PROGNOSTIC FACTORS

- > Experimental evaluation of a novel application of the gammaH2AX assay to predict tumour radiation sensitivity
A. Menegakis (Germany), C. Von Neubeck, A. Yaromina, H. Thames, M. Krause, D. Zips, M. Baumann
- > Mitochondrial function of the prognostic cell cycle regulatory gene CKS2 in cervical cancer
M. Jonsson (Norway), C.H. Julin, E.K. Aarnes, G.B. Kristensen, R. Holm, H. Lyng
- > Validation of a 15-gene hypoxia classifier in head and neck cancer for prospective use in clinical trials
K. Toustrup (Denmark), B.S. Sørensen, J.G. Eriksen, J. Alsner, J. Overgaard
- > MVP and IGF-1R overexpression predicts clinical outcome of oral carcinoma patients treated with radiotherapy
P. Lara Jimenez (Spain), M. Moreno, A. Rey, M. Lloret, J.I. Rodríguez-Melcón, N. Rodríguez-Ibarria, M.A. Cabezón-Pons, R. Carmona-Vigo, A. Valenciano, L.A. Henríquez-Hernández
- > Hypoxia and miRNA correlation in esophageal squamous cell carcinomas
M. Winther (Denmark), J. Alsner, T. Tramm, M. Nordmark

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RADIOBIOLOGY TRACK: OTHERS

- > Novel hybrid detector for radiobiological investigations in clinical ion beams
M. Niklas (Germany), A. Abdollahi, M.S. Akseleod, J. Debus, O. Jäkel, S. Greilich
- > Intercellular signalling in radiotherapy: Implications for margins, fractions, and modalities
S.J. McMahon (United Kingdom), C. McGarry, K. Butterworth, J. O'Sullivan, A. Hounsell, K. Prise
- > Epidermal growth factor as a potential radiosensitizer in mouse xenograft model
Y.J. Lim (Korea Republic of), S.R. Jeon, H.G. Wu, J.M. Koh
- > TRAM-34 an inhibitor of the Ca²⁺-activated IK K⁺ channel radiosensitizes glioblastoma cells in vitro
B. Stegen (Germany), L. Butz, K. Dittmann, D. Zips, P. Ruth, S.M. Huber

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RTT TRACK: PATIENT PREPARATION, PATIENT IMMOBILISATION AND SUPPORT AIDS

- > Workflow improvement in radiotherapy by implementation of a unique patient positioning and transfer system
G. Chiu (Hong Kong (SAR) China), K.F. Cheng, H. Geng, B.K. Yang, K.Y. Cheung, S.K. Yu, W.L. Mui
- > The necessity of rescanning prostate patients during radiotherapy planning: A review of practice
V. Acton (United Kingdom), T. Rowntree, C. Eswar, N. Wee loon
- > Evaluating the setup accuracy of patient positioning and transfer system in radiotherapy
K.F. Cheng (Hong Kong (SAR) China), W.L. Mui, S.K. Yu, K.Y. Cheung, G. Hui, B.K. Yang, G. Chiu
- > Implementing total marrow and lymphatic irradiation (TMLI) radiotherapy using tomotherapy
D. Routsis (United Kingdom), J. Dean, D. Welford

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RTT TRACK: TREATMENT PLANNING AND DOSE CALCULATION

- > Applicator based-image registration to support image guided adaptive cervix brachytherapy in clinical routine
J. Boer (Radiotherapy), K. Koholka, P. Georg, A. Sturdza, A. Osztavics, N. Nesvacil, C. Kirisits, R. Poetter, D. Berger
- > Feasibility of preoperative volumetric-modulated arc therapy for early stage breast cancer
K. Bota (Canada), S. Gaede, S. Karnas, E. Wong, B. Yaremko, M. Lock
- > Evaluation of a deep inspiration breath hold technique for patients with left breast cancer
M. McQuaid (United Kingdom)
- > In-house virtual simulator design for collision prevention in proton therapy planning system
H. Jung (Korea Republic of), O. Kum, Y. Han
- > Simultaneous-integrated boost volumetric-modulated arc therapies in prostate cancer: A dosimetric comparison
P. Cabrera, I. Peinado (Spain), M. Rubio, D. Vincent, S. Velázquez, M. Herrador, M.J. Ortiz, J.M. Praena-Fernández, J.C. Mateos
- > Helical Tomotherapy dose-escalation feasibility study for radical malignant pleural mesothelioma
C. Cutaia (Italy), A. Maggio, E. Garibaldi, S. Bresciani, A. Di Dia, G. Cattari, E. Del Mastro, P. Gabriele, M. Stasi
- > Virtual detection of collisions between patient and gantry in tangential fields in breast radiotherapy
J. Saez, A. Varo Curbelo (Spain), N. Anducas, S. Madirolas
- > Dosimetric comparison between Tomotherapy and Cyberknife for radiosurgery of single brain metastasis
D. Greto (Italy), S. Pallotta, L. Masi, C. Talamonti, R. Doro, S. Scoccianti, L. Marrazzo, I. Meattini, P. Bonomo, L. Livi

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RTT TRACK: VOLUME DEFINITION, TREATMENT MARGINS, GEOMETRIC UNCERTAINTIES AND TREATMENT ACCURACY

- > Reduced PTV margins for prostate IMRT with daily on-line IGRT: A retrospective analysis
H. Chesham (United Kingdom), H. Ariyaratne, K. Walsh, J. Pettingell

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- > Importance of setup margins and setup accuracy in Image Guided Total Marrow Irradiation.
A. Pasini (Italy), V. Iannacone, M.L. Milanese, G. Lamanna, S. Agostinelli, A. Natali, E. Costa, C. Pettinari, S. Vagge, R. Corvò
- > Comparison of GTV in SBRT patients with central versus peripheral lung tumors on 3D and 4D PET/CT imaging
A. Chirindel (Germany), S. Adebahr, T. Schimek-Jasch, J. Plappert, M. Mix, T. Brunner, A.G. Grosu, U. Nestle
- > Comparison of ExacTrac and CBCT set-up precision for Frameless Intracranial SRT
D. Cone (Turkey), E. Malcok, E. Goksel, O. Senkesen, H. Kucucuk, E. Tezcanli, M. Yilmaz, M. Kocer, M. Garipagaoglu, M. Sengöz
- > Assessing variation in volume of breast-CTV during radiotherapy to ameliorate the boost planning
M. Cignitti (Italy), F. Cellini, S.C. Mastrolembo Barnà, F. Paradiso, M. Melli, R.M. D'angelillo, E. Ippolito, A. Di Donato, A. Montagnoli, L. Trodella
- > Evaluation of set up margins and a correction protocol in radical radiotherapy for lung cancer
L. Minchell (United Kingdom), P. Whitehurst, C. Faivre-Finn, N. Bayman, A. Choudhury, J. Stratford
- > The workflow and benefits of patient positioning based on absolute table coordinates
R. Martens (The Netherlands), C. Buijs, M. Akgül, W. Kruijff de
- > Impact of probe pressure variability on prostate localization for ultrasound-based image-guided radiotherapy
M. Fargier-Voiron (France), B. Presles, P. Pommier, S. Rit, A. Munoz, H. Liebgott, D. Sarrut, M.C. Biston
- > Visibility of fiducial markers on the same MRI T2 sequence used for delineation of the prostate
A. Kahlen (Denmark), B. Holch Kristensen, P. Toft-Jensen
- > Evaluation of automatic segmentation software for brain organs at risk
P.V. Filatov (Russian Federation), E.S. Polovnikov, O.Y. Anikeeva, I.V. Bedny, O.A. Pashkovskaya

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- > Free breathing stereotactic ablative body radiotherapy with isotropic margins: evaluation of current practice
S. Chauhan (United Kingdom), M. Bewley, J. Stratford, L. Davidson, A. Choudhury, C. Faivre -Finn, C. Golby

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RTT TRACK: PATIENT CARE

- > Patient's pain level affects duration of simulation's procedures more than technical complexity
A. Montagnoli (Italy), F. Cellini, F. Paradiso, M. Mercuri, M. Melli, S.C. Mastrolembo Barnà, M. Fiore, B. Floreno, E. Molfese, L. Trodella
- > Fatigue in breast cancer patients undergoing curative radiotherapy treatment
L. Hartmann (Denmark), C. Lethan, E. Dalvad, U. Köhler, L. Sigaard, K. Dieperink
- > Effects of e-feedback knowledge of radiotherapy on breast cancer patients knowledge: A randomized controlled trial
M. Siekkinen (Finland), J. Kesänen, A. Ryhänen, S. Pyrhönen, H. Leino-Kilpi

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RTT TRACK: EDUCATION AND TRAINING

- > Bridging the theory-practice gap in RTT treatment planning education... To blog or not to blog?
M. Leech (Ireland Republic of)
- > Virtual patients for RT education: Facilitating the acquisition of treatment competences and self-reflection
A.J. Berlanga (The Netherlands), B. Reymen, R. Ackema, J. Ackema, P. Lambin
- > Radiation Therapists' image verification training and experience and resulting responsibility: A European study
L. Friel, L. Mullaney (Ireland Republic of)
- > Evaluation of our RTT education program
M. Doyuran (Turkey), E. Goksel, I. Kabalay, E. Tezcanli

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BRACHYTHERAPY TRACK: BREAST

- > Ipsilateral Breast Tumour Recurrence (IBTR): Second conservative treatment with Interstitial HDR BRT
S. Gribaudo (Italy), C. De Sanctis, A. Durando, D. Katsaros, M. Porpiglia, V. Richetto, E. Madon, U. Monetti, S. Danese
- > APBI in the elderly: 5-year results of high-dose-rate interstitial multicatheter brachytherapy
J.M. Hannoun-Levi (France), C. Genebes, M.E. Chand, J. Gal, M. Gautier, I. Raoust, T. Ihrai, B. Flipo, J.M. Ferrero, A. Courdi
- > Comparing dosimetric outcomes of two different insertion methods for multicatheter breast brachytherapy
L. Tang (Singapore), P.W. Tan, V. Koh, S.A. Buhari
- > A novel CT-based permanent breast seed implant technique
H. Kader (Canada), Y. Pham, W. Ansbacher, S. Gray
- > Partial breast re-irradiation using brachytherapy for local recurrences after prior external beam radiotherapy
F. Gherardi (Italy), A. Vavassori, A. Morra, C. Fodor, S. Comi, F. Cattani, M.C. Leonardi, R. Lazzari, B.A. Jereczek-Fossa, R. Orecchia

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BRACHYTHERAPY TRACK: GYNAECOLOGY

- > Is MRI brachytherapy mandatory when boosting small residual cervical tumors after high doses external beam therapy?
I. Fumagalli (France), A. Cordoba, V. Belot-Cheval, A. Kramar, E. Lartigau, C. Jumelle, P. Nickers
- > Uterine perforation and its dosimetric implications in HDR brachytherapy for carcinoma of the cervix
Y. Bahadur (Saudi Arabia), A. Hassouna, M. Eltaher, C. Constantinescu
- > Adaptive brachytherapy for carcinoma cervix – analyzing CT versus MRI for volume delineation
S.M. Arunsingh, P. Dharmendran, A. Mahata, S. Chatterjee (India), I. Mallick, R. Achari
- > Deformable image registration to estimate the dose-volume relationship in the radiotherapy for cervical cancer
T. Abe (Japan), S. Kato, S. Makino, K. Miyaura, Y. Kumazaki, N. Shikama, T. Tamaki, T. Ebara

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- > Full or empty bladder preference, from this OAR dose viewpoint, in different Tandem length ICBT applicator insertion
Z. Siavashpour, M.R. Aghamiri, R. Jaber (Iran Islamic Republic of), N. ZareAkha, H.R. Dehghan Manshadi
- > From LDR to PDR for gynaecological brachytherapy: Local control and HR-CTV dosimetry
S. Baker (United Kingdom), D. Wood, S. Davidson, J. Livsey, L. Barraclough, E. Johnstone, J. Wood, W. Gillespie
- > Phase II Trial of image-based HDR interstitial brachytherapy for previously irradiated gynecological cancer
A. Olarte (Spain), G. Valtueña, M. Cambeiro, M. Moreno, J.J. Aristu, L. Arbea, L. Ramos, B. Barbés, D. Azcona, R. Martinez-Monge
- > Multichannel vaginal cylinder: Interfraction rotational variation and its dosimetric impact
A. Mans (The Netherlands), R. Wolterink, J. Okker, C.W.M. Bloemers

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BRACHYTHERAPY TRACK: HEAD AND NECK

- > Clinical outcome of patients with early stage head neck cancer treated with 3D CT based radical HDR brachytherapy
P. Pandit (India), V. Murthy, J. Agarwal, S. Ghosh Laskar, S. Choudhari, Y. Ghadi, T. Gupta, A. Budrukkar

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BRACHYTHERAPY TRACK: PHYSICS

- > Comprehensive audit of brachytherapy dose distributions: A methodology and UK audit results
A.L. Palmer (United Kingdom), D. Bradley, A. Nisbet
- > Parameterization of Ir-192 HDR source phase space file for Monte Carlo based dose calculation
M. Zhang (USA), W. Zou, B. Haffty, N. Yue
- > Fast GPU-based Monte Carlo dose calculations for permanent prostate implants
E. Bonenfant (Canada), V. Magnoux, S. Hissoiny, B. Ozell, L. Beaulieu, P. Després
- > Measurement setup for verifying dose distributions of ¹⁰⁶Ru eye-plaques with synthetic diamond and diode detectors
G. Heilemann (Austria), N. Nesvacil, M. Blaickner, D. Georg

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- > Radiochromic film based patient specific QA for brachytherapy
S. Devic (Canada), S. Asgharizadeh, A. Syme, F. DeBlois, J. Seuntjens, I. El Naqa, H. Bekerat

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BRACHYTHERAPY TRACK: PROSTATE

- > Permanent seed brachytherapy for low-risk prostate cancer: Long-term outcomes at the Catalan Institute of Oncology
C. Gutiérrez Miguélez (Spain), A. Daidone, E. Martínez Pérez, J. Pera Fábregas, F. Ferrer González, A.M. Boladeras Inglada, S. Botella González, F. Pino Sorroche, F. Suárez Novo, F. Guedea Edo
- > Permanent brachytherapy as salvage therapy for locally recurrent prostate cancer after external beam irradiation
A. Vavassori (Italy), R. Spoto, F. Gherardi, C. Fodor, F. Cattani, S. Comi, B.A. Jerezek-Fossa, D. Zerini, R. Lazzari, R. Orecchia
- > Dosimetry modelling for focal high dose rate prostate brachytherapy
J. Mason (United Kingdom), B. Al-Qaisieh, D.I. Thwaites, P. Bownes, A. Henry
- > Impact of catheter displacements on inverse planning simulated annealing
G. Reynés-Llompарт (Spain), F. Pino, I. Modolell, I. Sancho, J. Pera, C. Picón
- > MRI guided focal HDR brachytherapy in patients with localized prostate cancer
M. Maenhout (The Netherlands), J.R.N. Van der Voort van Zyp, M.A. Moerland, M.R. Koelink, K.M. Van Vliet-van den Ende, J.H.W. De Vries, M. Van Vulpen
- > External-radiotherapy plus HDR-brachytherapy in prostate cancer: ICO long-term outcome
C. Gutierrez Miguélez (Spain), L. Santorsa, E. Martinez Perez, A.M. Boladeras Inglada, F. Ferrer Gonzalez, S. Botella Gonzalez, I. Sancho Kolster, S. Moreno Almagro, J. Pera Fábregas, F. Guedea Edo
- > A novel four-dimensional method of organ dosimetry in prostatebrachytherapy
M. Baradaran-Ghahfarokhi (Iran Islamic Republic of), M.A. Mosleh-Shirazi, R. Faghihi, M.H. Bagheri, K. Hadad, A.S. Meigooni

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- > Quality control of interstitial HDR/PDR brachytherapy for prostate cancer in a multi-institutional study
L.K.K. Kolkman-Deurloo (The Netherlands), B.R. Pieters, C. Koedoeder, C. Hoekstra, T. Nuver, S. Aluwini
- > High-dose-rate interstitial brachytherapy as monotherapy with hormone therapy for high-risk prostate cancer
K. Yoshida (Japan), H. Yamazaki, T. Takenaka, T. Kotsuna, K. Masui, Y. Uesugi, T. Shimbo, H. Yoshioka, E. Tanaka, Y. Narumi
- > Outcome of young patients treated with 125I-brachytherapy for low and intermediate risk prostate carcinoma
L. Kindts (Belgium), K. Stellamans, H. Pottel, A. Lambrecht
- > Sector dosimetric analysis of sagittal vs axial ultrasound guided source placement in I-125 prostate brachytherapy
A.B. Mohamed Yoosuf (United Kingdom), D.M. Mitchell, M. Byrne, M. Flynn, E. Napier, S. Jain, G. Workman
- > 10 year experience of an intra-operative computer guided prostate brachytherapy procedure - What have we learned?
S. Husain (Canada), S. Angyalfi, M. Sia, D. Brown, P. Dunscombe, R. Moore
- > Robotic guided prostate brachytherapy under TRUS visualization: A phantom experiment
A.G. Martin (Canada), N. Varfalvy, G. Miron, J.S. Plante, J.S. Francoeur, L. Beaulieu
- > Dose escalation with HDR brachytherapy in high risk prostate cancer: comparison of two consecutive protocols
A. Olarte Garcia (Spain), G. Valtueña, M. Cambeiro, M. Moreno, J.J. Aristu, L. Arbea, L. Ramos, B. Barbés, D. Azcona, R. Martinez-Monge
- > Optimal source distribution for focal boosts using high dose rate (HDR) brachytherapy alone in prostate cancer
P. Dankulchai (United Kingdom), R. Alonzi, G. Lowe, J. Burnley, A. Padhani, P. Hoskin
- > Comparison of permanent 125-I seeds implants with two different techniques in 500 cases of prostate cancer
J.L. Guinot (Spain), J.V. Ricós, M.I. Tortajada, M.A. Santos, J. Perez, A. Martos, C. Guardino, V. De los Dolores, V. González, J. Casanova

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POSTERS

- > Intraoperative HDR brachytherapy and external beam radiotherapy for prostate cancer: long-term outcomes
R. Galalae MD PhD (Germany), N. Brüske, F. Geiger, F.A. Siebert, P. Jiang, B. Kimmig, J. Dunst

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■ Poster

BRACHYTHERAPY TRACK: ANORECTAL

- > HDR-BT boost in adjunct to preoperative concurrent chemotherapy and pelvic EBRT for locally advanced rectal cancer
M.E. El Sayed, Y.A. Bahadur (Saudi Arabia), E.E. Fawzy
- > Implementation of 3D real-time-planning in HDR brachytherapy for anal cancer
F.A. Siebert (Germany), P. Jiang, V. Kahlke, J. Dunst
- > Contact brachytherapy X-Ray 50 kV as an adjuvant treatment after local excision for T1(2)N0 rectal adenocarcinoma
K. Benezery (France), J.P. Gérard, J. Doyen, E. François
- > TRUS guided interstitial HDR Brachytherapy combined with RCT for treatment of anal cancer
P. Niehoff (Germany), J. Schumacher, F.A. Siebert, J.M. Doniec, B. Kimmig, G. Kovacs, V. Kahlke
- > MRI-guided brachytherapy for rectal cancer: A treatment planning study with a shieldable multicatheter applicator
A.L. Appelt (Denmark), B. Mortensen, J. Pløen, K.L.G. Spindler

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BRACHYTHERAPY TRACK: MISCELLANEOUS

- > Comparison of cystectomy and organ preservative brachytherapy for bladder cancer in a systematic review
B. Pieters (The Netherlands), M. Bos, R. Ordonez-Marmolejo, C. Rasch
- > CT-guided high-dose-rate interstitial brachytherapy in eyelid carcinomas – a retrospective study
L. Bujor, V. Mareco (Portugal), A.N. Abrunhosa-Branquinho, M.R. Ferreira, M. Jorge
- > Outcome in HDR brachytherapy for penile cancer: a twelve-year follow up of 34 patients
S. Kellas-Slecza (Poland), B. Bialas, M. Fijalkowski, A. Cholewka, M. Szlag, P. Wojcieszek, H. Grzbiela

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E-POSTERS

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CLINICAL TRACK: CNS AND HAEMATOLOGY

- > Survival benefit of salvage radiosurgery in patients with recurrent high-grade gliomas
M. Martinez Carrillo (Spain), I. Tovar Martin, R. Guerrero Tejada, M. Zurita Herrera, R. Del Moral Avila, I. Linares Galiana, M.A. Gentil Jiménez, C. Prieto Prieto, P. Vargas Arrabal, J. Expósito Hernández
- > The impact of the total dose of postoperative radio(chemoradio)therapy on survival of glioblastoma patients
V. Sinaika (Belarus), N. Artemova, E. Zhavrid, I. Minailo, I. Veyalkin
- > Cyberknife stereotactic radiotherapy as the first-line treatment of intracranial meningiomas
Y. Manabe, H. Iwata, H. Ogino, T. Murai, M. Iwabuchi, T. Tamura, Y. Mori, H. Suzuki, Y. Shibamoto (Japan)
- > Combined modality therapy of Hodgkin's lymphoma: 10-year result of CEA/ABVD clinical trial
P. Datsenko (Russian Federation), G.A. Panshin
- > The introduction of volumetric modulated arc therapy to total body irradiation (TBI) – first experiences
C. Track (Austria), J. Hammer, A. Springer, E. Winkler, A. Weltermann, A. Böhm, H. Kasparu, A. Altenburger, R. Gruber, H. Geinitz
- > The management of recurrent GBM with External 3D-Conformal Re-Irradiation, i.v TMZ and BEV
A. Varveris (Greece), M. Mazonakis, J. Stratakis, A. Spanakis, E. Drakou, A. Potouridis, C. Varveris
- > Stereotactic radiosurgery and stereotactic radiation therapy in the management of brain metastases
J. McCarthy (Ireland Republic of), A. O'Donovan
- > Patterns of failure after postoperative radiation therapy and chemotherapy in completely resected glioblastoma
D. Balestrini (Italy), C. Degli Esposti, A. Baldissera, O. Martelli, F. Salvi, E. Donini, G. Frezza

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E-POSTERS

- > Efficacy and toxicity of chemo-radiotherapy in Hodgkin's lymphoma: A single institution experience
A. Di Biase (Italy), M. Conson, L. Cella, N. Puglese, M. Picardi, F. Doria, R. Solla, R. Liuzzi, M. Salvatore, R. Pacelli
EP-1053
- > Can hypofractionated stereotactic re-irradiation improves the outcome in patients with recurrent glioblastoma?
M. Galeandro (Italy), P. Ciammella, A. Podgornii, E. Cagni, A. Botti, C. Iotti
EP-1054
- > Neoadjuvant Temozolomide and Bevacizumab for bulky glioblastoma before radiotherapy
L. Darmon (France), M. Boone, B. Chauffert, B. Gubler, C. Desclos, H. Sevestre, A. Coutte
EP-1055
- > Radiosurgery and stereotactic radiotherapy for brain metastases: an early single-institution experience
V. Borzillo (Italy), F.M. Giugliano, R. Di Franco, S. Falivene, L. Iadanza, M. Mormile, V. Ravo, P. Muto
EP-1056
- > Site of relapse according to radiation fields in stage I/II Hodgkin disease: A monocentric study of 60 patients
L. Krebs (France), L. Quero, S. Franchi, S. Amarin, J. Ménard, C. Hennequin, P. Brice
EP-1057
- > Prognostic factors in stereotactic radiation therapy of brain metastases
T. Leth (Denmark), G. Von Oettingen, M. Høyer
EP-1058
- > Radiotherapy after autologous self cell transplant in Hodgkin lymphoma: better outcome for isolated recurrence
C. Furlan (Italy), M. Michieli, R. Bortolus, M. Mascarin, M. Avanzo, M. Rupolo, E. Zanet, M.G. Trovo
EP-1059
- > Combined modality therapy of patients with gastric non-Hodgkin lymphoma. The update of long – term results
S. Golub (Russian Federation), G. Panshin, M. Sotnikov, V. Solodkiy
EP-1060
- > Primary Hodgkin's lymphoma of the prostate: A rare case
C. Tan-Pusag (Philippines), M. Cruz, E. Tangco, T. Sarmiento, G. Banuelos, M. Olvina, C. Aguilar, R. Lopez, W. Ty, D. Bolong
EP-1061
- > Utility of FDG-PET in radiotherapy for indolent MALT lymphoma
E. Katayama (Japan), I. Asakawa, K. Inoue, T. Shinkai, T. Tamamoto, M. Hasegawa
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E-POSTERS

- > Stem cell niche irradiation and long-term survival in patients with glioblastoma multiforme
S. Rogers (Switzerland), A. Meister, S. Khan, U. Roelcke, S. Bodis
EP-1063
- > Monitoring fatigue and quality of life in high grade glioma patients. Is it useful?
S. Chiesa (Italy), I. Aprile, C. Di Blasi, B. Diletto, R. Autorino, M. Vernaleone, S. Bracci, L. Tagliaferri, L. Padua, M. Balducci
EP-1064
- > Reirradiation against recurrent anaplastic ependymoma with stereotactic radiotherapy using CyberKnife
T. Murai (Japan), K. Sato, M. Iwabuchi, K. Tatewaki, H. Oginio, H. Iwata, Y. Manabe, N. Yokota, Y. Shibamoto
EP-1065
- > Fractionated stereotactic radiotherapy for the treatment of meningiomas
L. Tovar Martin (Spain), R. Del Moral Ávila, M. Zurita Herrera, R. Guerrero Tejada, M. Martínez Carrillo, J. Expósito Hernández, M.A. Gentil Jiménez, I. Linares Galiana, P. Vargas Arrabal, C. Prieto Prieto
EP-1066
- > Hypofractionated stereotactic radiosurgery (HSRS) in recurrent high grade glioma: A safe and effective approach.
P. Navarria (Italy), A.M. Ascolese, E. Villa, E. Clerici, L. Bello, F. Pessina, A. Stravato, P. Mancosu, S. Tomatis, M. Scorsetti
EP-1067
- > Cyberknife hypofractionated radiosurgery treatment of high-grade gliomas
V. Buryk (Ukraine), N. Spizhenko, T. Chebotareva, S. Mosiychuk
EP-1068
- > Clinical parameters vs MGMT methylation as prognostic factors in unselected radiation-treated GBM patients
E. Nowicka (Poland), M. Jarzab, M. Gawkowska-Suwinska, A. Stanek-Widera, A. Straczynska-Niemiec, T. Cichon, D. Lange, S. Szala, B. Bobek-Billewicz, R. Tarnawski
EP-1069
- > Outcome of radiotherapy in intracranial germinoma at basal ganglia/thalamus
S. Song (Korea Republic of), I.H. Kim, K.Y. Eom, S.K. Kim, D.S. Heo, H.J. Kang
EP-1070
- > Outcome after re-irradiation for recurrent glioblastoma
K. Zwierner (Germany), F. Paulsen, G. Henke, C. Braun, M. Skardelly, D. Zips, F. Eckert
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E-POSTERS

- > Comparison of T2 and FLAIR imaging for target delineation in glioblastoma
P. Ciammella (Italy), A. Podgornii, M. Galeandro, A. Botti, E. Cagni
- > Validation of the Heidelberg prognostic reirradiation score in an independent patient cohort
M. Niyazi, M. Flieger (Germany), U. Ganswindt, S. Combs, C. Belka
- > Impact of different treatment modalities on survival outcome in recurrent glioblastoma
L. Sackerer (Germany), H. Pape, F. Ringel, B. Meyer, M. Molls, S.T. Astner
- > What is the impact of radiotherapy on neuropsychological functions in adults with medulloblastoma?
M. Ferro (Italy), S. Chiesa, A.R. Alitto, C. Valentini, G. Mantini, G.C. Mattiucci, L. Nardone, C. Anile, V. Valentini, M. Balducci
- > Recurrence pattern analysis after re-radio-immunotherapy in recurrent malignant glioma patients
M. Niyazi (Germany), N. Jansen, M. Flieger, U. Ganswindt, C. Belka
- > May low dose radiotherapy combined with Bevacizumab improve outcome in recurrent glioblastoma? A pilot study
A.R. Alitto (Italy), D. Marchesano, M.T. Riccardi, B. Diletto, F. Catucci, S. Manfrida, M. Ferro, D. Smaniotto, V. Valentini, M. Balducci
- > Patterns of the relapses in different subgroups of aggressive non-Hodgkin lymphomas after chemoradiation therapy
V. Sotnikov (Russian Federation), G. Panshin, V. Solodky
- > Radiotherapy overcomes adverse prognostic role of COX-2 expression in early Hodgkin lymphoma
E. Mestre (Spain), A. Gutierrez
- > Treatment of glomus jugulare tumors invading skull base by Gamma Knife radiosurgery
S. Sohawon (Belgium), P. Van Houtte, F. De Smedt, N. Massager, D. Devriendt
- > Reirradiation of brain tumors in young ages (7-40 years)
P. Mozes (Hungary), E. Szanto, M. Csenki, E. Valicsek, E. Fodor, L. Tizslavicz, A. Cserhati, P. Barzo, Z. Mencser, K. Hideghety

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E-POSTERS

- > Involved-site radiotherapy based on FDG-PET/CT after R-CHOP chemotherapy in diffuse large B cell lymphoma
J. Kwon (Korea Republic of), I.H. Kim, T.M. Kim, D.S. Heo

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■ **Electronic Poster**

CLINICAL TRACK: HEAD AND NECK

- > NTCP based adaptive radiotherapy in head and neck cancers: A new look into the old bottle
B. Emami (USA), M. Surucu, K. Shah, J. Breuning, B. Chiappetta
- > Organ-preservation modalities in advanced laryngeal carcinomas vs total laryngectomy: A retrospective analyses
N. Dinapoli (Italy), F. Miccichè, F. Bussu, R. Autorino, D. Smaniotto, G. Chiloiro, C. Parrilla, J. Galli, G. Paludetti, V. Valentini
- > Treatment of extensive scalp lesions using VMAT (RapidArc)
A. Aitken (United Kingdom), G.P. Beyer, S. Smith, D. Ritchie
- > Evaluation of radiotherapy techniques for single sided head and neck cancer in planned and summed treatment doses
D. McQuaid (United Kingdom), A. Dunlop, S. Nil, C. Franzese, C. Nutting, K.J. Harrington, K.L. Newbold, S.A. Bhide
- > Post treatment PET-CT to stratify follow-up for head and neck cancers - a matched cohort analysis of safety and cost
K. Shah (Australia), L. Te Marvelde, M. Collins, E. Lau, D. Rischin, S. Jarman, J. Corry
- > Defining radiation induced malignancies in the HPV era
A. Barry (Ireland Republic of), J. Kulasegarah, C. Timon, S. Brennan
- > Serum levels of soluble Heat shock protein 70 (sHsp70) correlate to tumor response after radical treatment of SCC HN
H.M. Specht (Germany), C. Bayer, M. Gehrmann, M.E. Liebhardt, T.E. Schmid, M. Trajkovic-Arsic, K. Hube, D. Schilling, M. Brandstetter, G. Multhoff
- > Experience of definitive chemoradiotherapy in senior adults with head and neck cancers
M.S. Iqbal (United Kingdom), N. Haris, M. Kagzi, A. Cyriac, C.G. Kelly

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E-POSTERS

- > Clinical significance of hypermetabolic uptake in mediastinum on PET/CT in locally advanced head and neck cancer
L. Park (Korea Republic of), S.W. Lee
- > Dose response relationship for stereotactic salvage of locally recurrent nasopharyngeal carcinoma
A. Hartley (United Kingdom), A. Nixon, J. Paine, P. Sanghera
- > The arginine effect on quality of life in head and neck cancer patients treated with IMRT
S. Yuce Sari (Turkey), G. Ozyigit, G. Yazici, E. Karabulut, D. Yuce, M. Cengiz
- > Determination of expression of EGFR and role of Gefitinib in premalignant and malignant lesions of the oral cavity
V. Umesh (India), A.K. Dixit
- > IMRT in nasopharyngeal cancer patients with skull base infiltration
L. Nieto (Spain), V. Ochagavia, V. Muñoz
- > VMAT in oropharyngeal cancer: Dosimetric analysis of parotids outside the PTV and correlation with toxicity results
S. Schipani (United Kingdom), M. Thomson, R. Ferguson, D. Grose, A. James, C. Paterson, M. Rizwanullah
- > A prospective study of thyroid function after radiotherapy for central nervous system and head and neck malignancies
K. Merrell (USA), B. Barney, T. Daniels, K. Klein, P. Carpenter, P. Schomberg, N. Laack, P. Brown, R. Foote
- > Pretreatment 18F-FDG-PET SUVmax plus Plasma EBV DNA titers to predict distant failure in NPC
Y. Shih (Taiwan), Y. Lin, W. Lin, J. Lin
- > Favourable outcomes with systemic anti cancer chemotherapy in Head and Neck cancer at a UK tertiary cancer centre.
K. Gupta (United Kingdom), K. Mais, L.W. Lee, A. Sykes, B. Yap, N.J. Slevin
- > Nasopharyngeal carcinoma. Intergroup 0099: Feasibility and results
L. Linares (Spain), M.A. Gentil, I. Tovar, M. Matínez, R. Del Moral, J. Expósito, R. Guerrero, M. Zurita, C. Prieto, F. Pérez-Carrascosa

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E-POSTERS

- > Contrast enhancement of carotid adventitial vasa vasorum as a biomarker of radiation-induced atherosclerosis
D.M. Gujral (United Kingdom), W.K. Cheung, B.N. Shah, N.S. Chahal, S. Bhattacharyya, R. Senior, Y. Yildiz, M.X. Tang, K.J. Harrington, C.M. Nutting
- > Dysgeusia during radio(chemo)therapy for head-and-neck tumors: A prospective study in 356 patients
E. Dörr (Austria), S. Appold, W. Dörr
- > Swallowing evaluation in head and neck cancer after IMRT: Early results of a prospective study
S. Ursino (Italy), P. Ferrazza, P. Cocuzza, L. Cernusco, V. Seccia, B. Fattori, T. Briganti, R. Morganti, F. Matteucci, F. Di Martino
- > Second primary malignancy of nasopharyngeal carcinoma after definitive treatment: A long term follow-up report
Y. Liu (Taiwan), P.J. Lin
- > IMRT for head and neck cancer in our clinical practice: Verification and margin to CTV-PTV correction protocols
L. Gutiérrez Bayard (Spain), M.C. Salas Buzón, E. Angulo Paín, L. De Ingunza Barón, L. Quiñones Rodríguez
- > Dosimetric impact of advanced calculation algorithms on OAR in head and neck treatments using VMAT
I. Romera-Martínez (Spain), J. Marruecos, D. Jurado-Bruggeman, C. Muñoz-Montplet, C. Auñón, S. Agramunt-Chaler
- > Impact of radiation therapy on survival and laryngeal preservation in patients with conservative laryngeal surgery
V. Molinier (France), J. Benhamou, E. Touboul, S. Perie, A. Orthuon, J. Lacau Saint Guily, F. Huguet
- > Role of conformal radiotherapy in adenoid cystic carcinoma of Lacrymal gland.
V. Roshan (India), S. Mallick, D. Mondal, R. Benson, A. Bharti, S. Bhaskar, S. Chander
- > Is level Ib included as CTV for prophylactic irradiation necessary in negative Ib node NPC patients treated by IMRT?
Z. Lin (China), L. Wang, M. Li, D. Zhou, D. Zhu

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E-POSTERS

- > Evidence that neck metastasis from occult SCC are virus associated cancers. Clinical implications
F. Bussu (Italy), F. Micciché, N. Dinapoli, R. Autorino, M. Balducci, C. Parrilla, J. Galli, G. Almadori, G. Paludetti, V. Valentini
- > Dermatitis in the treatment of nasopharyngeal carcinoma: correlation with chemotherapy and irradiation dose
K. Lee (Hong Kong (SAR) China), W.Y.C. Kong, W.Y.V. Choi, K.H.A. Leung, W.L. Ho, M.C.R. Chau, K.C.R. Ngan
- > Radiation therapy with concurrent superselective intra-arterial chemotherapy for gingival carcinoma
Y. Mukai (Japan), M. Hata, K. Mitsudo, I. Koike, T. Koizumi, S. Oguri, M. Kioi, M. Omura, I. Tohnoi, T. Inoue
- > Prediction of radiation treatment outcome in patients with tongue cancer
A. Gevorkov (Russian Federation), A. Boyko, L. Zavalishina, A. Chernichenko, I. Reshetov, R. Plavnik, E. Khmelevsky, N. Rubtsova, O. Malysheva, A. Gladyshev
- > A feasibility study of concurrent cetuximab during induction chemotherapy and IMRT for stage IV head and neck cancer
J.C. Lin (Taiwan), W.Y. Wang, S.A. Liu, C.W. Twu, P.J. Lin, Y.C. Liu
- > Clinical outcomes and toxicity in supraglottic laryngeal cancer treated with radical or adjuvant radiotherapy
S. Pedretti (Italy), L. Costa, F. Foscarini, S. Ciccarelli, G. Pascale, L. Pegurri, N. Pasinetti, S. Tonoli, M. Buglione, S.M. Magrini
- > Assessment and topographic characterization of local-regional recurrences in head and neck tumours
B. Costa Ferreira (Portugal), T. Santos, R. Vale Marques, L. Khouri, M.C. Lopes
- > Patterns of failure after the reduced volume approach for elective nodal irradiation in nasopharyngeal carcinoma
K.H. Seol (Korea Republic of), J.E. Lee, J.C. Kim, I.K. Park
- > Helical tomotherapy for the reirradiation of locoregional recurrent nasopharyngeal carcinoma
J. Garcia Ramirez (Spain), F. Puebla, J.L. Lopez Guerra, R. Matute, I. Marrone, C. Miguez, D. Sevillano, A. Sanchez-Reyes, J.M. Praena-Fernandez, I. Azinovic

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E-POSTERS

- > Influence of FDG-PET on primary nodal target volume definition for head and neck carcinomas
C. Terhaard (The Netherlands), S.L. Van Egmond, V. Piscoer, L.M. Janssen, M. Hobbelink
- > Treatment patterns and outcomes of cN0 nasopharynx cancer: Multi-institutional study
H. Park (Korea Republic of), Y.C. Ahn, D. Oh, Y.S. Kim, S.H. Moon, H.G. Wu, C.G. Lee, K.C. Keum, M.K. Kang
- > CT perfusion treatment response evaluation of head and neck cancer after IMRT: Preliminary findings
N. Cernusco (Italy), L. Faggioni, F. Pancrazi, P. Ferrazza, P. Cocuzza, F. Matteucci, V. Mazzotti, D. Caramella, C. Bartolozzi, S. Ursino
- > Patterns of care and outcome in HPV p16+ oropharyngeal squamous cell carcinoma treated at a tertiary hospital
M. Min (Australia), R. Gowda, J. Micklem, D. Roos, M. Penniment, G. Rees, J. Hodge, B. Stein, A. Taylor, S. Krishnan
- > Evaluation of atlas based auto-segmentation tool for head and neck cancer patients
M. Kuddu (Estonia), M. Kanger, D. Zolotuhhin, K. Kolk, R. Tiigi, N. Bisheva, E. Gershkevitch
- > Long-term outcomes and prognostic factors of surgery followed by radiation therapy for parotid gland carcinomas
B.S. Huang (Taiwan), C.Y. Lin, J.T. Chang
- > Re-irradiation with Intensity Modulated Radiotherapy for recurrent or second primary head and neck cancer
C. Travancinha (Portugal), M. Labareda, R. Pocinho, E. Netto, T. Antunes, M. Roldão
- > FDG-PET/CT in patients with carcinoma of the nasopharynx: Response assessment and prognostic significance
S. Billan (Israel), E. Shahin, I. Doweck, O. Ronen, R. Bar-Shalom
- > Efficacy of Intensity-Modulated Radiotherapy with concurrent carboplatin in nasopharyngeal carcinoma
A. Songthong (Thailand), C. Chakkabat, D. Kannarunimit, C. Lertbutsayanukul

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E-POSTERS

- > The Expression of epithelial cell adhesion molecules and prognosis in early stage glottic cancer
N. Murakami (Japan), T. Mori, S. Yoshimoto, Y. Ito, K. Kobayashi, K. Harada, K. Inaba, M. Madoka, S. Minako, J. Itami
- > The HRQoL for hypopharyngeal and laryngeal cancer patients received organ preservation treatment
J.T. Chang (Taiwan), H.M. Wang, C.J. Kang, C.R. Lin
- > Accuracy of atlas-based autosegmentation in head and neck radiotherapy treatment planning
K. De Souza (United Kingdom), R. Johnstone, C. Thomas, N. Milesi, T. Greener, D. Convery, T. Guerrero Urbano, M. Lei
- > Results of RapidArc Volumetric Modulated Arc Therapy (VMAT) in patients with differentiated thyroid carcinoma
M. Tunio (Saudi Arabia), M. AlAsiri, L. Gabriella, Y. Bayoumi
- > Management of nasopharynx cancer within the Radiotherapy Center Emir Abdelkader Oran, Algeria
M. Aid (Algeria), H. Khaldi, F. Morrach, B. Ziouche, B. Hatalli
- > The prognostic value of neck lymph node volume after neoadjuvant chemotherapy plus radiotherapy for N3 NPC
P.J. Lin (Taiwan), Y.J. Liou, J.C. Lin
- > Radiation-induced mandibular bone fracture: A possible consolidation using PENTOCLO?
S. Delanian (France)
- > Should level IIb nodes be irradiated in definitive radiotherapy for supraglottic cancer?
N. Kanayama (Japan), Y. Kawaguchi, K. Konishi, T. Teshima, K. Nishiyama, M. Yoshii, M. Suzuki, T. Fujii, K. Yoshino
- > Definitive radiation therapy for advanced stage oral cavity squamous cell carcinoma (OCSCC)
E. Rey (Canada), S.H. Huang, B. O'Sullivan, X. Qiu, X. Wei, B. Chan, J. Ringash, D. Goldstein, J. Kim, J.N. Waldron
- > The longitudinal shape variation of target volume in nasopharyngeal carcinoma during IMRT
W. Tan (China), Y. Li, J. Li, G. Han, J. Xu, D. Hu

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E-POSTERS

- > Significance of locoregional control for early-stage adenoid cystic carcinoma in the head and neck
J.H. Lee (Korea Republic of), H. Wu, C.I. Park, M. Sung, K.H. Kim, T. Kown, J.H. Hah, J.H. Kim
- > Re-irradiation for recurrence and second primary head and neck cancer: A single center experience
R. Micera (Italy), N. Simoni, E. Cagni, F. Vigo, A. Podgornii, C. Grondelli, A. Botti, D. Lambertini, M. Iori, C. Iotti
- > Impact of primary treatment modality (surgery vs radiotherapy) on oncological outcome of hypopharyngeal carcinoma
E. Miccichè (Italy), F. Bussu, R. Autorino, N. Dinapoli, G. Mantini, M. Rigante, G. Cadoni, G. Almadori, G. Paludetti, V. Valentini
- > Effect of granulocyte-colony stimulating factor on neutrophil count during chemoradiation for head and neck cancer
K. White (United Kingdom), T. Guerrero Urbano, M. Lei
- > The impact of human papillomavirus on oropharyngeal cancer in Nottingham, UK
L. Brookes (United Kingdom), R. Allibone, J.A. Christian
- > Comparison of position reproducibility in head and neck radiotherapy using different type fixation devices
C. Lin (Taiwan), J.T. Chang
- > Job retention, the influence factor to quality of life of nasopharyngeal cancer patients
T. Peerawong (Thailand), R. Jiratrachoo, P. Rordlamool, C. Kongkamol, D. Sangthawan
- > Lymphoepithelioma of the head and neck: Current treatment and outcomes
R. Allison (USA), S.A. Salenius, A. Hnatov, C. Ballenger, S. Finkelstein, C. Mantz, E. Fernandez, D. Dosoretz
- > SIB-IMRT with adaptive replanning for head and neck cancer
J. Lee (Korea Republic of), D. Yang, C. Kim, W. Yoon, Y. Park, N. Lee, J. Woo, J. Cho, J. Kim, E. Kang

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E-POSTERS

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CLINICAL TRACK: LUNG

- > Postoperative radiotherapy of NSCLC: Potential clinical predictors
R. Bütof (Germany), K. Kirchner, S. Appold, S. Löck, A. Rolle, G. Höffken, M. Krause, M. Baumann
- > Concurrent chemo-radiotherapy in locally advanced NSCLC: Is it specially tailored for the squamous cell pathology?
A. Chaudhuri, N. Cornelius (United Kingdom)
- > Influence of histology and smoking status on PD-L1, PD1 and CTL | Room A4 expression of tumor vs. normal lung tissue in NSCLC
K. Reynders (Belgium), E. Wauters, J. Vansteenkiste, H. Decaluwé, K. Nackaerts, S. Peeters, C. Dooms, W. Janssens, D. Lambrechts, D. De Ruyscher
- > Superior sulcus non small cell lung carcinoma: Retrospective analysis of 42 patients
P. Truntzer (France), N. Santelmo, D. Antoni, C. Schumacher, P.E. Falcoz, E. Quoix, G. Massard, G. Noel
- > Treatment outcomes of limited-stage small-cell lung cancer patients treated with different radiation schedule
K. Kim (Korea Republic of), S. Moon, Y. Kim, T. Kim, K. Cho, J. Han, Y. Lee, T. Yun, H. Kim, J. Lee
- > Correlation of PET results with pathological response after dose-escalation RT for NSCLC
S. Hasan (USA), T. Li, A. Turaka
- > Dosimetric results from a clinical trial of adaptive radiotherapy for limited-stage small cell lung cancer
L. Rowe (Canada), A. Krauze, J. Hanson, D. Yee
- > Evaluation of the risk for radiation pneumonia development in lung cancer using the dose volume histogram parameters
S. Yilmaz, Y. Guzle Adas, A. Hicsonmez (Turkey), M. Nalca Andrieu, S. Akyurek, S. Cakir Gökce
- > CyberKnife stereotactic ablative radiotherapy (SABR) in patients with non-small cell lung cancer (NSCLC)
Y. Leschenko (Ukraine), T. Chebotareva, N. Spizhenko, A. Fedusenko, O. Sharaevskiy, V. Buryk

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- > Low esophageal toxicity during simultaneous modulated accelerated radiotherapy (SMART) in locally advanced NSCLC
E. Chajon (France), J. Bellec, J. Castelli, M. Kerjouan, R. Corre, H. Lena, S. Molina, E. Le Prisé, R. De Crevoisier
- > Stereotactic radiotherapy for lung tumors: Preliminary treatment results of 35 cases from a single institution
M. Coskun (Turkey), Y. Guney, V.I. Ugur, T. Demirkasimoglu, B. Kucukpilakci
- > A randomized comparison of two schedules of hypofractionated radiotherapy for palliation of symptoms from NSCLC
P. Sahai (India), P.K. Mohanta, A.K. Bahadur, M.K. Daga, A.K. Rath, K. Singh
- > Outcomes of involved-field particle radiotherapy for stage II-III non-small cell lung cancer
O. Fujii (Japan), Y. Demizu, N. Hashimoto, M. Takagi, K. Terashima, M. Mima, D. Jin, N. Fuwa, Y. Niwa, M. Murakami
- > Endobronchial implantation of fiducial markers for image guidance in lung cancer radiotherapy
T. Kron (Australia), S. Siva, D. Steinfors, B. Chesson, N. Hardcastle, L. Irving, D. Ball
- > Cyberknife robotic SBRT for primary and secondary lung lesions: Clinical outcome of 129 patients with 157 lesions
L. Janvary (Belgium), N. Jansen, E. Lenaerts, M. Devillers, V. Baart, C. Ernst, S. Cucchiari, A. Gulyban, F. Lakosi, P. Coucke
- > Carbon ion radiotherapy for lung cancer with idiopathic interstitial pneumonia
M. Nakajima (Japan), N. Yamamoto, W. Takahashi, H. Tsuji, T. Kamada
- > Volumetric modulated arc therapy (VMAT) in locally advanced lung cancer – dosimetric comparison with 3DCRT
G. Reddy (India), R.K. Shrimali, P. Dharmendran, R. Achari, I. Mallick, S. Chatterjee
- > A retrospective study of lung stereotactic radiotherapy: 24,3 months of follow up
S. Bougas (Belgium), C. Ninane, S. Palumbo, A. Baudoux, F. Bustin, F. Duplaquet, F. Maisin, S. Ocak, G. Vandermoten, V. Remouchamps

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- > Initial outcomes results in lung cancer treatment with VMAT
M. Gómez (Spain), A. Iglesias, P. Escolar, J. Salinas
- > High dose hypofractionated stereotactic body radiotherapy for oligometastatic lung cancer
A. Bergantin (Italy), L.C. Bianchi, A.S. Martinotti, C. Vite, F. Ria, M. Invernizzi, G. Beltramo
- > Radiotherapy of primary squamous cell carcinoma of the trachea – a single center experience
R. Lazarov (Bulgaria), I.M. Mihaylova, Z.S. Spasova, T.M. Minchev
- > Concurrent chemo-radiotherapy in locally advanced NSCLC: Toxicity and clinical outcomes using VMAT (rapid arc)
A. Ascolese (Italy), P. Navarria, F. De Rose, E. Villa, L. Toschi, A. Santoro, A. Stravato, S. Tomatis, F. Lofefalo, M. Scorsetti
- > WHO performance score and hand grip strength in lung cancer: The influence on survival
K.M. Smits (The Netherlands), G. Nalbantov, C. Oberije, R.M.A. Houben, J.M.J. Paulissen, R. Wanders, E.G.C. Troost, P. Lambin
- > Role of postoperative radiotherapy after adjuvant chemotherapy in pN2 NSCLC: A propensity score matching analysis
B.H. Kim (Korea Republic of), H.J. Kim, H.G. Wu, C.H. Kang, Y.T. Kim, S.H. Lee
- > Repeat CT imaging and adaptive planning during radiotherapy for locally advanced lung cancer
E. Kucukmorkoc (Turkey), H. Acar, A. Altinok, H. Sertkaya, A. Omurca, S. Aydemir, H. Caglar
- > Metabolic metrics in repeated FDG-PET scans show early treatment response for NSCLC patients
S. Carvalho (The Netherlands), R. Leijenaar, E. Rios Velazquez, W. Van Elmpt, C. Oberije, E. Troost, A. Dekker, H. Aerts, P. Lambin
- > Study of offline setup error adaptive correction during radiotherapy for NSCLC based on online CBCT data
L. Kong (China), H. Li, J. Cheng, W. Huang, B. Li

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- > CCRT for N3-positive IIIB NSCLC: Retrospective comparison of 3D-CRT and IMRT techniques at Samsung Medical Center
J.M. Noh (Korea Republic of), Y.C. Ahn, H. Pyo, B. Kim, D. Oh, J.M. Kim, S.G. Ju, J.S. Kim, J.S. Shin, C.S. Hong
- > Accelerated chemo-irradiation in patients with contralateral central or mediastinal relapse after pneumonectomy
C. Pöttgen (Germany), E. Gkika, J. Abu Jawad, W. Lübcke, T. Gauler, W.E.E. Eberhardt, G. Stamatis, M. Stuschke
- > Hemithoracic radiotherapy for malignant pleural mesothelioma following extrapleural pneumonectomy
S. Odawara (Japan), M. Fujiwara, H. Doi, M. Tanooka, Y. Takada, Y. Niwa, S. Hasegawa, T. Nakano, N. Kamikonya, S. Hirota
- > Pleural cavity radiotherapy with IMRT-SIB-IGRT by Tomotherapy for malignant pleural mesothelioma
G. Cattari (Italy), E. Garibaldi, C. Cutaia, E. Delmastro, A. Maggio, S. Bresciani, M. Stasi, P. Gabriele
- > Ablative robotic radiosurgery for inoperable patients with Stage IA-IB non small cell lung cancer
A. Martinotti (Italy), L.C. Bianchi, A. Bergantin, C. Vite, F. Ria, M. Invernizzi, G. Beltramo
- > Maintenance low-dose gemcitabine versus best supportive care in advanced non-small cell lung cancer
A. Nagy (Egypt), E. Fouad, K. Nasr, H. El-Ghazaly, A. Adel
- > Study of offline adaptive correction of setup error during radiotherapy for NSCLC
H. Li (China), L. Kong, W. Huang, Z. Zhang, T. Zhou, B. Li
- > SABR for lung lesions in patients previously treated with surgery
M. Errasti (Spain), M. Rico, P. Navarrete, M. Barrado, M. Campo, E. Martínez, F. Mañeru, E. Villafranca, F. Arias, M.A. Dominguez
- > Loco-regional control of NSCLC in relation to automated early assessment of tumor regression on CBCT
C. Brink (Denmark), U. Bernchou, A. Bertelsen, O. Hansen, S. Schytte, S. Bentzen
- > Do patients with lung cancer benefit from a higher total radiation dose in a palliative setting - a unicentric analysis
C. Schröder (Germany), M. Ivo, A. Buchali

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- > Radiotherapy for thymic carcinoma: A retrospective analysis of 39 patients.
H. Murata (Japan), Y. Okuma, T. Shimizuguchi, H. Tanaka, Y. Machitori, M. Fujii, K. Nihei, K. Karasawa
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- > Dose Scallation Study of hypofractionated 3D Radiotherapy for inoperable early stage non-small-cell lung cancer
M. Molla Armada (Spain), A. Giraldo, J. Saez, M. Ramos, A. Seoane, L. Arbelaez, J. Giralt
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- > Population-based outcomes of stereotactic body radiotherapy for non-small cell lung cancer
A. Houle (Canada), R. Yang, M. Liu, E. Berthelet, H. Carolan, F. Hsu, C. Lund, S. Thomas, W. Kwa
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- > Acute toxicity related to pre-treatment respiratory function test in patients treated with SBRT for NSCLC
M. Rosa (Italy), T. Proto, A. Bolner, S. Bou Selman, A. Delana, L. Tomio, V. Vanoni
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CLINICAL TRACK: BREAST

- > When to use volumetric IMRT for left sided breast cancer patients?
M. Essers (The Netherlands), S. Hol, S. Osman, P. Poortmans
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- > Acute toxicity after boost with MammoSite technique
K. Fakhrian (Germany), A. Gitt, H. Hermani, H. Böse-Ribeiro, D. Drüppel, H.Y. Ergönenç, I.A. Adamietz
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- > Anticipated boost with IORT followed by hypofractionated whole breast radiotherapy (AFTEREIGHT phase II study)
V. Dell'Acqua (Italy), M.C. Leonardi, A. Morra, C. Fodor, S. Dicunozzo, R. Cambria, R. Luraschi, F. Pansini, B.A. Jerezcek, R. Orecchia
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- > Concomitant boost versus sequential boost in breast conservative therapy for early stage breast cancer
S. El-Mesidy, A.A. Hassan, M. Abdelrahman, S. Lasheen (Egypt), W. Hammam, M. Kamal El-din
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- > Hypofractionation with concomitant boost versus conventional radiotherapy in Egyptian breast cancer patients
N. Gado (Egypt), R. Khalil, A. Amin, A. Essa, M. El-Kady, M. Kamal
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- > Hypofractionated Helical Tomotherapy for breast cancer Vs prone 3D-conformal radiotherapy: A dosimetric analysis
F. Giugliano (Italy), L. Iadanza, S. Falivene, V. Borzillo, F. Cammarota, M. Muto, V. Ravo, R. Di Franco, P. Muto
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- > A dosimetric comparison between different external photon beam techniques for accelerated PBI
E. De Martin (Italy), F. Bonfantini, T. Giandini, M.L. Fumagalli, L. Lozza, M.C. De Santis, M. Franceschini, V. Pinzi, L. Fariselli, R. Agresti
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- > APBI with IMRT + IGRT: Report of a novel technique and dosimetry results
P. Castro Peña (Argentina), P. Murina, C. Buevas, M.S. Del Castillo, A. Del Castillo, G. Barujel, C. Descamps, C.D. Venencia, S. Zunino
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- > Accelerated partial breast irradiation: Arctherapy versus 3D-CRT
G. Farha (France), M. Cheve, G. Auzac, S. Lopes Da Silva, S. Rivera
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- > Patterns of difficult cases for breast irradiation: where multi-beam IMRT and SIB should be the primary choice
S. Ben Mustapha (Belgium), D. Dechambre, C. Mievis, P. Coucke, S. Cucchiario, A. Gulyban, F. Lakosi
EP-1197
- > Cavity Boost (CB) following Fractionated External Beam Radiotherapy (EBRT): Time to move on from clinical mark-ups?
S. Chatterjee (India), S. Chakraborty, S. Das, S. Tamil Selvan, R.K. Shrimali, R. Achari, I. Mallick, R. Ahmed, A. Manke, A. Mahata
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- > Hypofractionated radiotherapy and concomitant boost in breast cancer patients using 3-D conformal radiotherapy
J. Valero Albarrán (Spain), R. Ciervide Jurio, C. Eito Valdovinos, M. Garcia- Aranda Pez, M. Lopez Gonzalez, E. Sanchez Aggar, O. Hernando Requejo, M. Herrero Conde, L. García Estevez, C. Rubio Rodríguez
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- > Partial breast irradiation and stereotactic body radiation therapy with Exactrac in breast cancer patients
R. Ciervide (Spain), J. Valero Albarrán, M. Garcia-Aranda, M. López Gonzalez, J.U.A.N. García, E. Sanchez Augar, O. Hernando Requejo, I. Calvo, M. Fernandez Abad, M. Rubio
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- > Inspiration gating - improving left breast coverage for patients with anterior heart position: The RPM advantage
A. Kaplinsky (Israel), V. Pyatigorskaya, I. Gelernter, H. Granot, M. Ben-Ayun, D. Alezra, Z. Symon, M. Ben-David
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- > Survival after lumpectomy and mastectomy for early stage invasive breast cancer
Y.-C. Tsai (Taiwan), H. Cheng, B. Yu, C. Horng, C. Chen, J. Jian, N. Chu, M. Tsou, M. Liu, A. Huang
- > DIBH for left-sided breast radiotherapy: Does this equate to a reduction in OAR doses?
K. Walsh (United Kingdom)
- > Hypofractionated whole prone breast RT using Sagittilt system: patient comfort, setup accuracy and acute toxicity
F. Lakosi (Belgium), S. Ben Mustapha, A. Gulyban, S. Cucchiario, C. Ernst, N. Martin, F. Sequenzia, P. Coucke
- > Hyperthermia and re-irradiation for effective treatment of loco-regional recurrences in breast cancers
N.R. Datta (Switzerland), E. Puric, N. Heüberger, N. Lomax, O. Timm, D. Marder, P. Memminger, S. Bodis
- > Early clinical experience with image-guided intensity modulated accelerated partial breast irradiation
N. Mészáros (Hungary), Z. Takacs-Nagy, T. Major, G. Stelczer, Z. Sulyok, J. Fodor, C. Polgár
- > Immediate reconstruction and postmastectomy radiotherapy
V. Díaz Díaz (Spain), L. De Ingunza, I. Villanego, E. Gonzalez, L. Diaz, L. Gutierrez, C. Salas, J. Jaen
- > Single fraction ablative radiotherapy for early stage breast cancer: A brachytherapy versus IMRT planning study
K.R. Charaghvandi (The Netherlands), M.D. Den Hartogh, J.H.W. De Vries, V. Scholten, M.A. Moerland, M.E.P. Philippens, M. Van Vulpen, B. Van Asselen, H.J.G.D. Van den Bongard
- > Management parameters in the launching of intraoperative electron radiotherapy in a University Hospital
I. Valduvico (Spain), R. Llorente, D. Lambisto, J. Morales, P.L. Fernandez, M. Velasco, J. Pahisa, F. Carmona, B. Farrus, A. Biete
- > Naïve bayes models for predicting the risk of loco-regional relapse in breast cancer patients
S. Tortajada (Spain), J.L. Lopez Guerra, D. Palacios, A. Pérez-González, J.M. García-Gómez, R. González Otal, C.L. Parra Calderon, A. Martinez Garcia, A. Moreno Conde, M.J. Ortiz Gordillo

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- > A clinical decision support system for breast cancer treatment planning
D. Palacios (Spain), J.L. Lopez Guerra, S. Tortajada, E. Casitas, A. Pérez-González, R. González Otal, A. Martinez, A. Moreno, C.L. Parra Calderon, M.J. Ortiz Gordillo
- > IORT followed by hypofractionated whole breast radiation versus sequential boost in early breast cancer patients
F. Marampon (Italy), G.L. Gravina, P. Bonfili, P. Franzese, M. Di Staso, V. Ruggieri, F. Vittorini, M.E. La Verghetta, S. Parente, E. Di Cesare
- > Unintended irradiation of internal mammary chain - is that enough?
M. Silva (Brazil), L.G. Sapienza, M.J. Chen, D.G. Castro, A.C.A. Pellizzon, M.A.C. Maia
- > Breast reconstruction with full expander followed by Radiotherapy. Aesthetic outcome
A. Diaz Gavela (Spain), E. Del Cerro Peñalver, F. Couñago Lorenzo, F. Marcos Jiménez, I. Sanz, G. Hernández, Y. Molina
- > Introducing new radiation oncology technology through small scale clinical trial methodology
B. Chua, M. Bressal, D. Phillips, A. Phillips, S. David (Australia), T. Kron, P. Tran
- > Hypofractionated RT for breast cancer – acceleration of the START A regime: Intermediate tolerance and efficacy
S. Janssen (Switzerland), C. Glanzmann, S. Lang, S. Verlaan, D. Wisler, C. Linsenmeier, G. Studer
- > Accelerated Partial Breast Irradiation (APBI) with high dose rate brachytherapy in luminal breast cancer
B. Pinar (Spain), J. Blanco, A. Riveros-Pérez, L. García-Cabrera, M.A. Cabezón-Pons, N. Rodríguez-Ibarria, L.A. Henríquez-Hernández, M. Federico, M. Lloret, P.C. Lara
- > Moisturizer efficacy for breast radiation-induced dermatitis: A prospective open-label, randomized trial
M. Ogita (Japan), K. Sekiguchi, K. Akahane, C. Haga, R. Ito, Y. Ishida, S. Arai, J. Kawamori
- > Hypofractionated RT of the breast - experience with 500 women
E. Bräutigam (Austria), C. Track, J. Hammer, H. Geinitz

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- > Mutation analysis for BRIP1 in Korean patients with BRCA1/2 mutations-negative high-risk breast cancer
H. Kim (Korea Republic of), D.Y. Cho, D.H. Choi, W. Park, S.J. Huh, M.H. Lee, S.H. Ahn, B.H. Son, S.W. Kim
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- > Effectiveness of hypofractionated whole breast irradiation after partial mastectomy in Japanese patients
N. Yoshikawa (Japan), H. Yoshioka, T. Shimbo, K. Yoshida, Y. Uesugi, Y. Narumi
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- > Not every patient that fulfils APBI low risk breast cancer inclusion criteria is an adequate candidate for ELIOT
R. Llorente (Spain), I. Valduvico, D. Lambisto, A. Herreros, X. Caparros, I. Alonso, P. De Santos, G. Santamaria, A. Biete, B. Farrus
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- > Brain radiotherapy for breast cancer with brain metastasis: Effect of breast cancer subtypes on clinical outcome
S.F. Lai (Taiwan), C.S. Huang, Y.S. Lu, C.W. Wang, Y.H. Chen, K.H. Lan, A.L. Cheng, S.H. Kuo
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- > High risk breast cancer can be safely treated with adjuvant accelerated hypofractionated irradiation
M. Cabezón Pons (Spain), N. Rodríguez-Ibarria, L. García-Cabrera, M. Lloret, B. Pinar, L.A. Henríquez-Hernández, I. Ramírez, R. Cabrera, J. Blanco, P.C. Lara
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- > Safely achieving up to 6 minute breath-holds in breast cancer patients
S. Parveen (United Kingdom), A. Stevens, B. Stephens, S. Green, T. Clutton-Brock, M. Parkes
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- > A single-blinded RCT of the use of bolus in post mastectomy irradiation in breast cancer
L.G. Sapienza (Brazil), A.R. Aiza, L.A.N. Lins, C.C. Trigo, R.C. Fogaroli, M.A.C. Maia
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- > Dosimetric comparison of radiation techniques in the irradiation of the supraclavicular fossa in breast cancer
M. Ahmed (United Kingdom), D. King, S. Barron, M. Quigley
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- > Adjuvant radiotherapy using simultaneous integrated boost technique for breast conserving surgery
R. Del Moral (Spain), I. Tovar, M. Zurita, R. Guerrero, M. Martínez, J. Expósito, M.A. Gentil, I. Linares, P. Vagas, C. Prieto
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- > AAA vs PBC for breast treatment planning - analysis based on the National Swedish Breast Cancer Group recommendations
A. Koszewska-Flejmer (Sweden), F. Dohlmar, M. Nilsson, M. Stenmarker, A. Dasu
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- > Determination of radiotherapy strategy in patients with advance breast cancer: The role of functional imaging
S. Novikov (Russian Federation), S.V. Kanaev, T.U. Semiglasova, P.V. Krivorotko, V.F. Semiglazov, E.A. Turkevich
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- > Clinical implications of ISC technique for breast radiotherapy with comparison to SweBCG recommendations
A. Koszewska-Flejmer, D. Josefsson (Sweden), M. Nilsson, M. Stenmarker, A. Dasu
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- > Psoriasis in breast cancer: Incidence and impact on radioinduced skin toxicity
F. Pastore, A. Faiella, R. Solla, A. Farella, L. Cella, R. Liuzzi, G. Salzano, M. Conson, M. Salvatore, R. Pacelli (Italy)
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- > Skin dose related to the use of breast-cups during adjuvant breast conserving therapy
M. Arenas (Spain), R. Berenguer, V. Hernández, K. Müller, M. Gascón, S. Sabater
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- > Value of modern radiation techniques in bilateral breast cancer treatment
A.L. Vasconcelos (Portugal), E.C. Moser, C. Varandas, S. Vieira, A. Soares, J. Ribeiro, B. Sousa, C. Greco
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- > Prognostic factor and failure pattern differences between invasive micro-papillary carcinoma and IDC of the breast
J.I. Yu, D.H. Choi (Korea Republic of), S.J. Huh, W. Park, I.A. Kim, J.H. Kim, K.H. Shin, Y.B. Kim
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- > Mepitel Film prevents radiation-induced moist desquamation
P. Herst (New Zealand), N.C. Bennett, A. Sutherland, R.I. Peszynski, D.B. Paterson, M.L. Jasperse
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- > SIB in breast conserving therapy using presegmentation modulated radiotherapy (OAPS): A dosimetric study
I. Barillot (France), J. Blanchecotte, A. Ruffier-Loubiere, G. Bernadou, A. Reynaud-Bougnoux, C. Bramouille
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- > Hypofractionated whole-breast radiotherapy in Italy: A survey by the Breast Cancer Study Group of AIRO
C. Vidali (Italy), A.I.R.O. Breast Cancer Study Group, F. Giudici
- > Effectiveness and toxicity of IORT during breast conserving surgery followed by adjuvant whole breast radiotherapy
B. Urbanski (Poland), A. Roszak, S. Adamczyk, M. Litoborski
- > Arm and shoulder morbidity following surgery and radiotherapy of breast cancer
S. Johansen (Norway)

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CLINICAL TRACK: GASTROINTESTINAL TUMOURS (UPPER AND LOWER GI)

- > Locally advanced gastroesophageal junction cancer: Neoadjuvant treatment with VMAT and concomitant chemotherapy
A. Tozzi (Italy), C. Iftode, T. Comito, M.C. Campisi, P. Navarra, E. Clerici, G. Maggi, P. Mancosu, A. Stravato, M. Scorsetti
- > Dosimetric comparison among 45 and 50.4Gy in neoadjuvant radiotherapy for rectal cancer. Preliminary results
E. Jimenez (Spain), P. Mateos, J. Pardo, J.C. Font, A. Mena, I. Alastuey, S. Montemuiño, C. Chiaramello, L. Bodi, S. Sabater
- > Neoadjuvant treatment of Klatskin Tumours (KT) with Stereotactic Body Radiotherapy (SBRT) & Capecitabine
O. Hernando Requejo (Spain), M. López, R. Ciervide, J. Valero, M.O. García-Aranda, E. Sanchez, E. Vicente, A. Cubillo, Y. Quijano, C. Rubio
- > The role of chemoradiotherapy in pancreatic cancer treatment: institutional experience
M. M^a Victoria De Torres, T.G. Tamara Garcia, I.J. Ignacio Juez, B.L. Blanca Ludeña, D.G. David Gutierrez, F.P. Fernando Pereira, C.R. Cesar Rodriguez, G.P. Guadalupe Martin, R. Bermúdez Luna (Spain)
- > Organ preservation in elderly patients with rectal cancer: Preliminary results of a prospective study
K. Bujko (Poland), L. Pietrzak, M. Rupinski, L. Wyrwicz, M. Szczepkowski, A. Rutkowski

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E-POSTERS

- > Effect of duodenal overlap volume with PTV (Duo OLV) in locally advanced pancreatic cancer radiotherapy planning
H. Musunuru (United Kingdom), P. Junni, D.W. Smith, J. Lilley, S. Wilson, S. Swift, B. Carey, A.M. Crellin, D.J. Sebag-Montefiore, G. Radhakrishna
- > Feasibility study of simultaneous integrated boost for radiotherapy treatment in anal canal cancer
S. Palumbo (Belgium), S. Deheneffe, L. Hambach, C. Clermont, S. Bougas, L. Donnay
- > Definitive chemoradiation for oesophageal cancer: Northern Ireland regional outcomes
R.B. Goody (United Kingdom), G.G. Hanna, C. Harrison
- > A therapeutic challenge: metastatic pancreatic cancer with musculoskeletal predilection. Case report and review
C. Zamboglou (Germany), A.L. Grosu, M. Azemar, T. Brunner
- > Clinical impact of tomoEDGE in the treatment of anal canal carcinoma
A. Franzetti Pellanda (Switzerland), N. Corradini, L. Negretti, K. Schombourg, M. Biggiogero, M. Leick, G. Ballerini
- > Radiation therapy in combination with cetuximab and gemcitabine in locally advanced pancreatic cancer
M. Fiore (Italy), L. Trodella, S. Valeri, B. Floreno, C. Greco, G. Nappo, E. Molfese, P. Trecca, R. Coppola
- > Preliminary outcomes and toxicity in anal cancer treated with definitive VMAT chemoradiotherapy
E. Ciurlia (Italy), F. Valvo, A. Cavallo, B. Avuzzi, C. Chiruzzi, M.C. De Santis, S. Fantini, M. Franceschini, E. Pignoli, R. Valdagni
- > Prognostic factors in lymph node positive rectal cancer after surgery following neoadjuvant chemoradiotherapy
T.R. Koo (Korea Republic of), J.S. Kim, S.B. Kang
- > Achieving durable local control without surgery in unresectable, metastatic rectal cancer
S. Chander (Australia), P. Cooray, J. McKendrick, S.W. Wong, C. Ngan, M. Michael, M. Steel, S. Ngan
- > Predictive factors for pathologic complete response after preoperative chemoradiotherapy in rectal cancer
J. Heo (Korea Republic of), O. Noh, M. Chun, Y. Oh, M. Kim, H. Park

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E-POSTERS

- > The outcome of patients with rectal cancer after stereotactic body radiation therapy for liver oligometastases.
A. Namysl-Kaletka (Poland), I. Wzietek, L. Miszczyk, J. Wydmanski, D. Gabrys, S. Blamek
- > Renal toxicity in resectable locally advanced gastric cancer treated with adjuvant radio-chemotherapy
J. Quirós Rivero (Spain), Y. Ríos Kavadoy, J.L. Muñoz Garcia, J. Cabrera Rodriguez, F. Ropero Carmona, E. Capelo Medina, A. Corbacho Campos, A. Torres García, A. Ruiz Herrero
- > Targeted high dose electron treatment of early stage anal cancers – toxicity and initial outcomes in a case series
K. Olling (Denmark), A.L. Appelt, J. Pløen
- > Comparison of 3D conformal radiotherapy and IMRT and the effect of position in locally advanced rectal cancer
O. Derinalp Or (Turkey), Y. Yukselen Guney, B. Kucukplakci, S. Aytac Arslan, N. Kaplan, O. Gul, A. Gani, A. Simsek Bozkurt, E. Delikgoz Soykut
- > Local chemotherapy and conformal radiotherapy in treatment of the locally advanced pancreatic cancer
G.L. Vasilev (Russian Federation), L.I. Korytova, A.V. Pavlovskiy, E.V. Vlasova, S.A. Popov
- > MRI-guided SBRT with individualised margins for locally advanced pancreatic cancer – a feasibility and safety study
H.D. Heerkens (The Netherlands), M. Van Vulpen, O. Reerink, J.C.J. De Boer, C.A.T. Van den Berg, F.P. Vleggaar, I.Q. Molenaar, G.J. Meijer
- > Locoregional recurrence in intrahepatic cholangiocarcinoma after curative resection
K. Kim (Korea Republic of), S. Song, E.K. Chie, J.Y. Jang, S.W. Kim, N.J. Lee, K.S. Suh, S.W. Ha
- > Reduction rate of CEA after chemoradiation as a prognostic factor in advanced rectal cancer patients
S.Y. Sung (Korea Republic of), E.J. Yoo, C.S. Kay, Y.S. Lee, J.H. Kim, S.H. Son

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E-POSTERS

- > The curative treatment of synchronous rectal and prostate cancers
N. Lavan (Ireland Republic of), C. Faul, C.M. Gillham, J. Armstrong, G. McVey, B.D.P. O' Neill
- > Impact of metformin on outcome in patients with hepatocellular carcinoma with radiotherapy
W.I. Jang (Korea Republic of), M.S. Kim, C.K. Cho, H.J. Yoo, Y.S. Seo, J.K. Kang, K.B. Kim, D.H. Lee, C.S. Kay, A.R. Chang
- > Comparing of Rapid Arc technique Vs 3D-CRT in rectal cancer radiotherapy in regards to organs preservation.
A.H. Alhamad (Saudi Arabia), A.Z. Alzahrani, M.K. Kandeel, M.A. Adilli
- > Hemostatic radiotherapy for bleeding from an advanced gastric cancer
B. Navalpotro (Spain), L. Arbelaez, O. Coronil, A. Giraldo, J. Giralt
- > Preoperative capecitabine, bevacizumab and IMRT for rectal cancer – ongoing two stage phase II trial
H. Ren (China), J. Jin
- > Efficacy and toxicity of rectal cancer reirradiation using IMRT
J. Olsen (USA), M. Mutch, S. Sorscher, P. Grigsby, R. Myerson, P. Parikh
- > Institutional difference of radiotherapy for esophageal cancer in core hospitals for cancer medical care
Y. Hamamoto (Japan), H. Inata, M. Kataoka, A. Fukui, Y. Urashima, H. Matsuki, K. Uwatsu, T. Ochi, Y. Watanae, T. Mochizuki
- > Involved-field RT using helical tomotherapy for metastatic retroperitoneal lymph node in colorectal cancer
J. Lee (Korea Republic of), J.S. Chang, K.C. Keum, W.S. Koom
- > Comparison of intensity modulated radiotherapy and 3D conformal radiotherapy in patients with cancer of anal canal
I. Mihaylova (Bulgaria), N. Gesheva, V. Parvanova, A. Chakarova, N. Dimitrova
- > Effectiveness and safety of proton beam therapy for hepatocellular carcinoma with portal vein tumour thrombosis
S. Lee (Korea Republic of), J. Park, T. Kim, B. Kim, S. Woo, Y. Kim, S. Moon, S. Kim, Y. Koh, W. Lee

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E-POSTERS

- > Adjuvant gemcitabine and concurrent radiotherapy in resected pancreatic adenocarcinoma
A. Sainato (Italy), M. Coppola, N.L.V. Cernusco, U. Boggi, F. Pasqualetti, E. Vasile, P. Ferrazza, V. Mazzotti, F. Mosca, L. Cionini
EP-1275
- > First implementation of intensity-modulated dynamic tumor-tracking RT in pancreatic cancer using a gimbaled linac
A. Nakamura (Japan), T. Mizowaki, S. Itasaka, M. Nakamura, Y. Ishihara, N. Mukumoto, M. Akimoto, Y. Matsuo, M. Kokubo, M. Hiraoka
EP-1276
- > Downstaging of rectal cancer by long term preoperative chemoradiotherapy
A. Masarykova (Slovakia), D. Scepanovic, M. Lukacovicova, A. Hurakova, M. Pobjaková, Z. Dolinska
EP-1277
- > Radiation therapy for biliary tract tumors: Joint experience of three centers
M.S. Karabey (Turkey), E. Yirmibesoglu Erkal, A. Yolcu, B.H. Bakkal, O. Ay, B. Sarper, G. Aksu, H.S. Erkal
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CLINICAL TRACK: GENITOURINARY (PROSTATE INCLUDED)

- > Evaluation of biochemical response in relation to RT schedule for prostate cancer: Preliminary experience
G. Blandino (Italy), G. Timon, G. Vidano, E. Verzanini, S. Vagge, M. Marcenaro, S. Barra, R. Corvò
EP-1279
- > Organ sparing treatment for bladder cancer – a series of patients from a single institution
B. Zobec Logar, B. Segeđin (Slovenia), R. Hudej
EP-1280
- > Predicting prospectively patient-reported acute bowel symptoms in post prostatectomy IMRT including pelvic nodes
L. Perna (Italy), G. Agnello, C. Cozzarini, C. Fiorino, C. Deantoni, V. Sacco, A. Sbalchiero, F. Zerbetto, N. Di Muzio, R. Calandrino
EP-1281
- > Anorectal dysfunction after prostate cancer radiotherapy
Y. Chai (Korea Republic of), W. Park
EP-1282
- > Interobserver variation of target volume for prostate cancer salvage

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E-POSTERS

- radiotherapy using CT versus combined CT & MRI
E. Lee (Korea Republic of), J.H. Cho, J.H. Kim, K.H. Cho, Y.M. Choi, J.S. Kim, J.H. Kim, H.S. Jang, Y.S. Kim, T.K. Nam
EP-1283
- > 70 Gy hypofractionated IMRT for prostate cancer with customized rectal balloon: Toxicity and outcome
H. Kim (Korea Republic of), J.W. Kim, J. Cho
EP-1284
- > Could three trials demonstrate radiotherapy tolerance and utility in post-surgery setting prostate cancer?
A.R. Alitto (Italy), S. Fersino, V. Frascino, B. Fionda, F. Catucci, V. Iorio, D. Smaniotto, A.G. Morganti, V. Valentini, G. Mantini
EP-1285
- > Adaptive radiotherapy for prostate cancer: Early replanning prevents rectal and bladder overdose
V. Murthy (India), S. Mohanty, S. Nojin, U. Mahantshatty, S.K. Shrivastava
EP-1286
- > Genitourinary symptoms, well-being and quality of life after radiotherapy for prostate cancer
M. Johansson, I. Mattsson, U. Wilderäng, G. Steineck, C. Olsson, D. Alsadius (Sweden)
EP-1287
- > Differences in planned and delivered doses to the rectum during prostate radiotherapy using helical tomotherapy
J.E. Scaife (United Kingdom), S.J. Thomas, M. Romanchikova, R. Jena, N.G. Burnet
EP-1288
- > Proton-photon or photon therapy of locally advanced prostate cancer: 10 years results and dynamics of toxicities.
E. Khmelevsky, I. Kancheli (Russian Federation), V. Khoroshkov, A. Kaprin
EP-1289
- > Neoadjuvant chemotherapy and chemoradiotherapy with gemcitabine in muscle invasive bladder cancer
C. Thompson (United Kingdom), C. Anandadas, J. Stratford, J. Lyons, P. Elliott, J. Livsey, J. Logue, J. Wylie, R. Cowan, A. Choudhury
EP-1290
- > Bladder tumors - 8 years experience of one Radiotherapy Service
P. Pinto Soares (Portugal), D. Queirós Inácio, L. Vendeira, G. Pinto
EP-1291
- > Stereotactic boost in intermediate risk prostate carcinoma: preliminary results of a french multicentric study
E. Lartigau (France), D. Peiffert, P.H. Maingon, P. Pommier, P.H. Nickers
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E-POSTERS

- > Computed tomography perfusion of prostate cancer before and after radiation therapy: Early experience results
G.I. Boboc (Italy), V. Donato, M. Osimani, A. Laghi, A.L. Pastore, G. Palleschi, A. Carbone
- > Feasibility and safety of prophylactic nodal irradiation with SIB- IMRT in high risk prostate cancer
A. Leone (Italy), D. Russo, A. Papaleo, E. Cavallera, F.P. Ricci, G. Di Paola, V.E. Chiuri, M. Santantonio
- > Target motion assessment with beacon transponders during extreme hypofractionated IGRT of the prostate
C. Greco (Portugal), J. Stroom, S. Vieira, D. Mateus, O. Pares, N. Pimentel, Z. Fuks
- > Association between ethnicity and toxicity in prostate cancer patients treated with arc radiation therapy
J.L. Lopez Guerra (Spain), R. Matute, M.J. Ortiz Gordillo, C. Acevedo, N. Isa, R. Lengua, F. Puebla, J.M. Praena-Fernandez, C. Beltran, I. Azinovic
- > Role of 18-Fluorocholine PET-CT in prostate cancer patients management. Preliminary results
C. Felipe (Spain), E. Del Cerro, F.J. Marcos, A.A. Díaz Gavela, A. Maldonado, M. Recio, C. Chiaramello
- > Imaged guided IMRT & moderate hypofractionated for the treatment of prostate cancer in novalis linac
E. Sanchez Saugar (Spain), J. Valero Albarran, A. Rodriguez Gutierrez, O. Hernando Requejo, M. Garcia-Aranda, M. Lopez Gonzalez, R. Ciervide Jurio, J. Perez Moreno, C. Rubio Rodriguez
- > Pre-clinical study of intraoperative radiotherapy using the Intrabeam® system in locally advanced prostate cancer
E. Buge (France), S. Chiavassa, J. Rigaud, C. Herve, G. Delpon, S. Supiot
- > Adjuvant and salvage conformal radiotherapy results after radical prostatectomy in patients with prostate cancer
P. Hurmuz (Turkey), F. Akyol, G. Ozyigit, Y. Ozdemir, E. Karabulut, H. Ozen
- > Salvage radiotherapy after HIFU: Low toxicity and satisfactory survival outcome
M. Duma (Germany), I. Sackerer, W. Riedl, S. Thüroff, M. Molls, H. Geinitz

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E-POSTERS

- > The effect of hormone therapy duration on survival after conformal radiotherapy for prostate cancer patients
G. Ozyigit (Turkey), F. Akyol, Y. Ozdemir, P. Hurmuz, E. Karabulut, H. Ozen
- > Orchiectomy and radiotherapy for stage I-II testicular seminoma: Side effects, body image and sexual functioning
R.C. Wortel (The Netherlands), L. Incrocci
- > IGRT for prostate cancer with ultrasound-based system and surface imaging system: role of the two methods
M. Krenghi (Italy), D. Beldi, M. Di Genesio Pagliuca, G. Apicella, V. Amisano, C. Pisani, M. Guffi, L. Mazzola, G. Loi, M. Brambilla
- > Results of whole pelvic radiotherapy for locally advanced prostate cancer
K. Inaba (Japan), K. Kobayashi, S. Sekii, M. Kitaguchi, K. Takahashi, N. Murakami, M. Morota, Y. Ito, M. Sumi, J. Itami
- > Curative treatment of invasive bladder cancer in patients not candidates for cystectomy
M. Gentil Jiménez (Spain), I. Linares Galiana, M. Martínez Carrillo, C. Prieto Prieto, J. Expósito Hernández, R. Guerrero Tejada, I. Tovar Martín, R. Del Moral Ávila, M. Zurita Herrera, F. Pérez Carrascosa
- > Hypofractionated stereotactic body radiation therapy in low-risk prostate cancer
H.J. Kim (Korea Republic of), W.C. Kim
- > Phase II trial of pelvic nodal irradiation with hypofractionated IMRT-SIB for high-risk prostate cancer
A. Magli (Italy), T. Ceschia, E. Moretti, M. Signor, M. Polsinelli, A. Prisco, M. Crespi, C. Foti, M.R. Malisan, S. Fongione
- > Long-term outcome of IMRT with neoadjuvant hormonal therapy under early salvage policy for T3-4N0M0 prostate cancer
T. Mizowaki (Japan), K. Takayama, Y. Norihisa, I. Ikeda, T. Kamba, T. Kamoto, T. Inoue, E. Nakamura, O. Ogawa, M. Hiraoka
- > Moderate hypofractionation radiotherapy with helical tomotherapy (HT) for prostate cancer
G. Ferrera (Italy), G. Mortellaro, G. Caminiti, R. Mazzola, A. Spera, A. Grillo, G. Di Paola, T. Cucchiara, F. Sciumè, D. Messina

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E-POSTERS

- > Fertility in prostate cancer patients treated with radiation therapy
A. Hervás Morón (Spain), M.J. Béjar, S. Alvarez, K. Yanowski, J. Ordóñez, R. Rodríguez-Patrón, E. García-Galloway, R. Casanueva, S. Marcos, A. Ramos
- > Hypofractionated salvage radiotherapy with simultaneous integrated boost after radical prostatectomy
P. Bulychkin (Russian Federation), S. Tkachev, A. Berdnik, U. Bykova
- > Predictors of outcome after radiotherapy post radical prostatectomy
R.C. Walshaw (United Kingdom), A. Agarwal, R. Swindell, J.P. Logue, J.P. Wylie, J.E. Livsey, N. Alam, P.A. Elliott, P.D. Dickinson, A. Choudhury
- > Daily changes in rectum and bladder dose in patients with prostate cancer treated with Tomotherapy
G. Caminiti (Italy), A. Spera, G. Ferrera, G. Mortellaro, G. Evangelista, F. Sciumè, B.F. Abbate, G. Iacoviello
- > Feasibility and tolerance of simultaneous integrated boost technique in intermediate and high risk prostate cancer
A.R. Alitto (Italy), V. Frascino, G.C. Mattiucci, F. Catucci, L. Boldrini, B. Fionda, M. Balducci, S. Luzi, V. Valentini, G. Mantini
- > Do new radiotherapy techniques favourably impact on toxicity rates in prostate cancer patients (pts)?
L. Donadoni (Italy), M. Maddalo, A. Alghisi, B. De Bari, L. Triggiani, L. Baushi, M. Urpis, L. Spiazzi, M. Buglione, S.M. Magrini
- > 11C-choline PET/CT and individualization radiotherapy planning in prostate cancer
E. Lopez (Spain), A. Lazo, G. Arreguá, A. Gutiérrez, A. Sacchetti, M.I. Núñez
- > Prostate stereotactic ablative body radiotherapy: Long-terms outcome
G. Beltramo (Italy), A. Bergantin, A.S. Martinotti, C. Vite, F. Ria, M. Invernizzi, L.C. Bianchi
- > Biochemical and clinical outcomes for high-dose Salvage Radiotherapy after Radical Prostatectomy
A. Botticella (Italy), A. Guarneri, A.R. Filippi, F. Munoz, N. Gaj Levra, R. Ragona, U. Ricardi

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E-POSTERS

- > Evaluation of solitary bone lesions by SPECT-CT: Is it important for radiotherapy planning?
S. Kanaev (Russian Federation), P. Krzhivickiy, S. Novikov, L. Jukova
- > Cone beam CT in patient repositioning evaluation to adjust planning CTV margins
L. Latorzeff (France), D. Marre, P. Dudouet, O. Gallocher, D. Franck, J. Mazurier
- > Comparing morbidity and cancer control after 3D-CRT and IMRT for prostate cancer
M. Dolezel (Czech Republic), K. Odrázka, M. Zouhar, M. Vaculikova, J. Sefrova, J. Jansa, Z. Macingova
- > Final results of the IMRT Montpellier pilot study for prostate cancer
D. Azria (France), M. Charissoux, N. Ailleres, S. Thezenas, C. Llacer Moscardo, M.H. Hay, J.B. Dubois, P. Fenoglio
- > Toxicity evaluation in adjuvant hypofractionated IMRT versus conventional 3DCRT in prostate cancer
D. Russo (Italy), A. Leone, A. Papaleo, E. Cavallera, G. Di Paola, F.P. Ricci, V.E. Chiuri, C. Accettura, M. Santantonio
- > Long-term outcome after simultaneous integrated boost treatment of prostate cancer patients via tomotherapy
M. Geier (Austria), I. Sackere, N. Duma, C. Nieder, M. Molls, H. Geinitz
- > Dosimetric effects of image-guided radiotherapy using daily online cone beam CT for prostate radiotherapy
H. Ariyaratne (United Kingdom), H. Chesham, J. Pettingell, K. Sikora, R. Alonzi
- > Neo-adjuvant monotherapy with anti-androgen or LHRHa and radical prostate radiotherapy - A case matched study
G. Corey (United Kingdom), D.M. Mitchell, C. McDowell, U. McGivern, J. O'Hare, J.M. O'Sullivan
- > Postoperative radiotherapy in bladder cancer patients in presence of neobladder: Safety and morbidity
M. El-Haddad (Egypt), I.R. Saad

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E-POSTERS

- > Comparison between the use loose and polymer string seeds in prostatic brachytherapy in Brazil
E. Moura, C. De Souza, F.S. Peleias Jnr (Brazil), C.A. Zeituni, M.E.C.M. Rostelato, F.R. Mattos, M.A.G. Benega, J.A. Moura, A. Feher, O.L. Costa
EP-1329
- > Individual risk for biochemical recurrence in T2/T3a R1 prostate cancer – a multicenter study
U. Ganswindt (Germany), A. Haese, D. Schilling, R. Knuechel-Clarke, R. Ganzer, J. Hess, A. Pycha, A. Hartmann, C. Belka, A. Karl (Germany)
EP-1330
- > Dosimetric effects of MRI-CT registration on IMRT prostate radiotherapy
S. Sabater (Spain), M.R. Pastor, I. Andres, E. Lozano, R. Berenguer, M.M. Sevillano, M. Arenas
EP-1331
- > Patient-reported outcomes with a validated LENT-SOMA questionnaire for radiotherapy following prostatectomy
A. Choudhury (United Kingdom), A. Agarwal, R. Swindell, J.P. Logue, P.A. Elliott, P. Dickinson, J.E. Livsey, J.P. Wylie, R. Walshaw
EP-1332
- > Five-year biochemical control rates and late toxicity of prostate cancer hypofractionated radiotherapy
P. Dubinsky (Slovakia), K. Belanova, N. Janickova, P. Matula, B. Hostova
EP-1333
- > A dose-volume intercomparison of VMAT and 3D-CRT for salvage radiation therapy after prostatectomy
R. Ogino (Japan), K. Ishii, S. Kishimoto, K. Ichioka, R. Nakahara, W. Okada, R. Kawamorita, T. Nakajima
EP-1334
- > Radiation therapy for stage IIA seminoma – our experience (1971-2010)
M.E. Stein (Israel), T. Charas, R. Ben-Yosef
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■ Electronic Poster

CLINICAL TRACK: GYNAECOLOGICAL TUMOURS

- > Combination of IMRT and three dimensional conformal brachytherapy in cervical carcinoma
M. Garipagaoglu (Turkey), E. Tezcanli, M. Sengoz, O. Senkesen, H. Kucucuk, E. Goksel, M. Yilmaz, I. Aslay
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■ INTERDISCIPLINARY WITH RADIOBIOLOGY FOCUS

E-POSTERS

- > Phase I/II trial of 3DCRT+MDR Brachy given with Taxol and CDDP for inoperable uterine cervix carcinoma
A. Varveris (Greece), M. Mazonakis, A. Spanakis, J. Stratakis, E. Drakou, C. Varveris
EP-1337
- > Advantages and early outcomes of extended field IMRT for advanced cervical cancer
R. Abdah-Bortnyak (Israel), V. Bakouche, S. Billan, A. Berniger, R. Ben-Yosef, A. Nevelsky
EP-1338
- > Radiochemotherapy in uterine cervix adenocarcinoma – the assessment of the treatment results
J. Jonska-Gmyrek (Poland), A. Zolciak-Siwinska, L. Gmyrek, B. Kotowicz, M. Fuksiewicz
EP-1339
- > Impact of various treatment modalities for carcinoma cervix on sexual function assessed using the LENT SOMA scales
A. Shankar (India), J. Patil, K. Mandrelle, A.N.I.L. Luther
EP-1340
- > Volumetric arc radiosurgery in recurrent gynecological cancer: A preliminary report from a phase I trial
G. Macchia (Italy), F. Deodato, S. Cilla, G. Ferrandina, G.A. Mariano, C. Digesù, G. Corrado, A. Piermattei, V. Valentini, A.G. Morganti
EP-1341
- > Adjuvant IMRT in endometrial cancer: Clinical data and dosimetric parameters according to the ICRU83 report
A.C. Córdoba A (France), P.N. Nickers Ph, E.T. Tresch E, B.C. Castelain B, E.L. Leblanc E, F.N. Narducci F, F.L. Le Tinier F, T.L. Lacornerie T, E.L. Lartigau E
EP-1342
- > Reirradiation using helical tomotherapy for recurrent cervical cancer
M. Kim (Korea Republic of), C.S. Kay, S.H. Son, D.Y. Ro, T.E. Kim, Y.W. Kim
EP-1343
- > Anal canal as a risk organ in conventional field of whole pelvic radiotherapy
H. Jang (Korea Republic of), G.B. Baek, S. Jo
EP-1344
- > Radiation therapy for pelvic lymph node metastasis from uterine cervical cancer
M. Hata (Japan), I. Koike, E. Miyagi, R. Numazaki, M. Asai-Sato, T. Kasuya, H. Kaizu, T. Matsui, F. Hirahara, T. Inoue
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- > Prognosis and survival of women with type II endometrial carcinoma after adjuvant radiotherapy
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- > Volumetric-modulated arc therapy for gynecological cancer with lumbo-aortic nodal invasion
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- > Follow-up with pelvic MRI in cervix cancer: Our experience
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- > The MRI capabilities in diagnostics, staging and planning the treatment of endometrial carcinoma
S. Valeria (Russian Federation), I.V. Stolyarova, E.K. Yakovleva EP-1349
- > Comparison of DVH and myelosuppression between IMRT and 3DCRT in cervical cancer with postoperative radiotherapy
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- > Assessment of tumor volume and serum tumor marker levels during chemoradiation therapy for cervix cancer
S. Lee (Korea Republic of), K. Sung, S. Lee, S. Ahn, J. Choi, K. Lee EP-1352
- > What is the effect of ethnic status in early stage endometrial cancer? A retrospective analysis of 223 patients
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M. Lae (France), A. Lebel, Y. Kirova, F. Hamel-Viard, X. Sastre EP-1354
- > Histopathological outcomes of neoadjuvant radiotherapy for extremity soft tissue sarcoma
Z. Gahelnabi (United Kingdom), A. Freemont, P. Shenjere, D. Nonaka, R. Swindell, C. Coyle, J.P. Wylie, A. Choudhury EP-1355

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- > Acute and late toxicity of craniospinal irradiation for medulloblastoma patients
M. Ortiz Gordillo (Spain), J.L. Lopez Guerra, P. Cabrera, C. Marquez, G. Ramirez, E. Quiroga, B. Campos, J.M. Praena-Fernandez, A. Falcon, J. Peinado EP-1356
- > Dosimetric assessment of IMRT in total abdominal irradiation in Wilms tumor patients
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- > Role of radiotherapy for localized cerebral ATRT in childhood: A pediatric radiotherapy group study
V. Beneyton (France), C. Dufour, C. Carrie EP-1359
- > Analysis of the causes of recurrence after multimodality treatment of medulloblastoma in children
D.H. Shonus (Russian Federation), O.I. Shcherbenko, T.R. Izmailov EP-1360
- > Knowledge-based planning and evaluation - a pilot DVH registry for pediatric cranio-spinal irradiation
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- > Prospective analysis of radical chemoirradiation for head and neck cancer in elderly [Age = 65years] using IMRT
R. Jomon (India), T. Thanuja, P.C. Sudheeran, C.D. Joseph EP-1363

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- > Concurrent radio-chemotherapy in elderly patients: Feasibility and tolerance in a mono-institutional experience
M. Di Genesio Pagliuca (Italy), G. Apicella, A. Galla, M. Guffi, L. Donis, M. Paolini, V. Amisano, S. Torrente, I. Manfreda, M. Krengli
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- > Multidimensional geriatric evaluation in urological neoplasia: a cooperative prospective study
S. Morlino (Italy), F. Gherardi, C. Panzarino, E. Villa, G. Petralia, G. Galetti, A. Millul, E. Beghi, R. Valdagni, S. Monfardini
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- > 'Intraoperative-like' single dose X-ray radiotherapy in squamous cell skin carcinoma in elderly patients
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- > PDRNs intravesical instillations reduces symptoms of interstitial radiation-induced cystitis
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- > Symptoms management in inoperable rectal carcinoma by short course palliative radiotherapy
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- > Effect of relaxation music on the emotional state of radiotherapy cancer patients
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- > Lactosore as supportive care in gynecological malignancies treated with HDR Brachytherapy
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- > Palliative radiotherapy with or without additional care by a multidisciplinary palliative team (MPT)
C. Nieder (Norway), K. Angelo, A. Dalhaug, A. Pawinski, G. Aandahl, E. Haukland, K. Engljaehringer, J. Norum
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- > Silver-containing Hydrofiber® dressings to prevent progression of the radiation dermatitis
P. Perea Lopez (Spain), E. Arregui Lopez, P. Diaz Soriano, R. Morera López
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- > Oral application of platelet supernatant gel prevents radiation-induced oral mucositis
P. Bonfili (Italy), M. Di Staso, P. Franzese, V. Ruggieri, G.L. Gravina, M.E. La Verghetta, M. Cerasani, F. Marampon, S. Parente, E. Di Cesare
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- > Percutaneous radiofrequency ablation followed by radiotherapy in the management of painful bone metastases
M. Di Staso (Italy), P. Bonfili, P. Franzese, G.L. Gravina, V. Ruggieri, F. Marampon, M. Mancini, D. Di Genova, F. Vittorini, E. Di Cesare
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- > Considering patient preferences to choose the best individual treatment, the example of a treatment choice tool
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- > RITA Project (hypofractionated RT and analgesic therapy): an example of multidisciplinary supportive care
E. Clerici (Italy), A. Tozzi, F. De Rose, C. Iftode, T. Comito, P. Navarria, A.M. Ascolese, A. Gaudino, V. Palumbo, M. Scorsetti
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- > Factors affecting survival for patients with brain metastases receiving palliative radiotherapy
N. Uslu (Turkey), Y. Yukselen Guney, E. Karakaya, B. Budakoglu, S. Aytac Arslan, V.I. Ugur, A.R. Ucer, B. Kaya
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- > Radiation therapy with image guidance and active breath control for hepatobiliary malignancies
S. Goyal (India), T. Kataria, D. Gupta, S. Jain, S.S. Bisht, L. Pushpan, N. Karthikeyan
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- > Clinical efficacy of Denosumab combined with external beam radiotherapy for metastatic bone tumor
T. Shimbo (Japan), N. Yoshikawa, H. Yoshioka, K. Yoshida, Y. Uesugi, Y. Narumi
- > Time to develop brain metastases as an important factor to predict overall survival in this cohort of patients
A.A. Sanz Torres (United Kingdom), N. Cornelius
- > Palliative Quad Shot radiotherapy in advanced head and neck cancer
T. Mehmood (Pakistan), H. Iqbal, S. Javed, R. Hussain, A. Jamshed

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M. Lopez Gonzalez (Spain), O. Hernando Requejo, E. Sanchez Saugar, J. Valero Albarran, M. Garcia-AAranda Pez, R. Ciervide Jurio, C. Etto Valdovinos, C. Belda Iniesta, A. Ortiz de Mendevil, C. Rubio Rodriguez
- > Graded Prognostic Assessment (GPA) score for brain metastases treated with stereotactic radiosurgery
Y. Kumar (United Kingdom), Q. Mehmood, A. Hindley, N. Singh, A. Ray, C. Davis, J. Law, C. Abbott, C. Benn-Mackay, S. Mathur
- > Pulmonary oligometastases: Stereotactic Body Radiation Therapy as a new option?
G. Calais, G. Janoray (France), S. Chapet, A. Ruffier-Loubiere, E. Pichon, P. Diot, G. Bernadou, I. Barillot
- > Upper abdominal stereotactic radiotherapy (SBRT): Correlation of local control with biological equivalent dose
S. Kirste (Germany), H. Trautsch, B. Messmer, A.L. Grosu, F. Momm, T.B. Brunner
- > SABR in oligometastatic disease from colorectal cancer: a safe and effective approach
T. Comito (Italy), L. Cozzi, A. Tozzi, C. Iftode, P. Navarra, E. Clerici, P. Mancosu, G. Reggiori, S. Tomatis, M. Scorsetti

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- > Investigation of isodose prescription level in hypofractionated intracranial treatments using VMAT
R. Hiscock (New Zealand), B. Mzenda, A. Falkov
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- > The retrospective evaluation of uveal melanoma cases treated with fractionated stereotactic radiotherapy
E. Delikgoz Soykut (Turkey), A. Dizman, Y. Yukselen Guney, G. Olcay, M. Cetindag, R. Duman, M. Balci, S. Ozdogan, I. Ordu Altundag, H. Uysal
- > Reirradiation with CyberKnife® in patients with brain metastases
R. Di Franco (Italy), V. Borzillo, F.M. Giughiano, L. Iadanza, M. Mormile, S. Falivene, V. Ravo, P. Muto
- > SBRT for localized prostate cancer using Tomotherapy: current results of a phase II study (8 fractions in two weeks)
V. Macias Hernandez (Spain), M. Blanco, D. Ciprian, L.A. Perez Romasanta
- > Stereotactic body radiation therapy (SBRT) for extracranial oligometastases
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- > Stereobody radiotherapy (42Gy/7fx) for localized prostate cancer: radiobiology and first results
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- > Stereotactic radiotherapy for primary renal cell carcinoma: Technique and early toxicity in a single institution
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- > First experience with Elekta Flattening Filter Free beams for stereotactic irradiation of brain metastases
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- > Feasibility of SBRT with VMAT and high intensity photon beams for hepatocellular carcinoma patients
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- > Inoperable colorectal liver metastases: A monoinstitutional experience and preliminary outcome of SABR
M. Scorsetti (Italy), T. Comito, L. Cozzi, A. Tozzi, C. Iftode, P. Navarria, E. Clerici, P. Mancosu, F. Lobefalo, S. Tomatis
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- > Malignant lung nodules treated with Stereotactic Body Radiotherapy (SBRT): A single institution experience
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- > Stereotactic radiosurgery in the treatment of melanoma brain metastases
M. Guerrero Tejada (Spain), I. Tovar, M. Zurita, R. Del moral, J. Expósito, M. Martínez, M.A. Gentil, I. Linares, P. Vargas, C. Prieto
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- > Clinical results of stereotactic radiotherapy for patients with choroidal melanoma using CyberKnife system
T. Sasaki (Japan), K. Nakamura, S. Ohga, T. Yoshitake, K. Terashima, K. Asai, K. Matsumoto, H. Hirata, H. Honda
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- > Multi-institutional planning study for spine stereotactic body radiation therapy with cyberknife in Japan
H. Tanaka (Japan), T. Furuya, K. Nihei, K. Karasawa, N. Shikama, Y. Kumazaki, K. Miyaura, H. Mayahara, H. Nishimura, M. Nakayama
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- > Stereotactic body radiotherapy using 4D image-guidance for inoperable primary liver cancer or metastases
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- > Our experience in stereotactic single-dose radiation therapy of lung tumors
D. Najjari Jamal (Spain), A. Navarro, M. Arnaiz, R. Piñeiro, R. Ramos, S. Aso, E. Garcia, J. Martinez, I. Sancho, F. Guedea
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- > Dose intensification on spinal metastases with medullar preservation by VMAT and intra fraction motion control
N. Ailleres (France), P.E. Cailleux, M. Charissoux, O. Riou, D. Azria, P. Fenoglietto
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- > Local control evaluation in bone metastases treated with stereotactic body radiation therapy: Initial experience
R. Piñeiro-Retif (Spain), A. Navarro, A. Lozano, F. Ferrer, A. Eraso, D. Najjari, M. Galdeano, R. De Blas, G. Martínez-Pimentá, F. Guedea Edo
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- > Image guided adaptive radiotherapy: A practical method to estimate rectal and bladder dose in prostate treatment
S. Castiglioni (Italy), G. Maffucci, F. Cammarano, C. Plasmati, E. Di Betta, A. Uberti, S. Manenti, M. Catalano
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- > Successful radiotherapy in persistent inguinal lymphorrhea with CT-Planning
M. Kopp (Austria), P. Scherer, A.K. Koch, F. Sedlmayer
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- > VMAT radiation therapy in nasopharynx carcinoma using 18F-FDG-PET/CT simulation: Humanitas CCO first experiences
N. Ricottone (Italy), C. Marino, D. Aricò, G. Pisasale, A. D'Agostino, A. Todaro, N. Cavalli, S. Sportelli, A. Girlando
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- > Dosimetry of incidental irradiation, level I and II lymph nodes in breast cancer.
E. Jorda Sorolla (Spain), D. Dualde Beltrán, M. Alcalá Gimenez, J. Pinazo Bensach, R. Algás Algás, M. Maroñas, M. Ferri, C. Domingo, E. Ferrer
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- > Impact of PET-CT simulation in lung cancer patients treatment. Preliminary results
J. Pardo (Spain), A.M. Mena, C. Chiamarello, M. Giménez, F. Romero, P. Mateos, M. Sintes, I. Alastuey, N. Aymar, C. Peña
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- > The effect of tumor volume and pathology on diffusion-weighted MRI during radiotherapy of lung cancer
E. Weiss (USA), J.C. Ford, K. Olsen, K. Karki, G.D. Hugo
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- > Impact of preoperative 18FDG PET/CT images in target volume delineation of the breast boost
O. Fargier-Bochaton, V. Vinh-Hung, O. Ratib, C. Tabouret-Viaud, R. Miralbell, H. Vees (Switzerland)
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- > Magnetic resonance imaging rigid and deformable pelvic registration accuracy related to the tabletop shape
M. Pastor (Spain), S. Sabater, I. Andrés, E. Lozano, R. Berenguer, M.M. Sevillano, M. Arenas
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- > Implementation of functional MRI imaging for precise target determination and results evaluation in liver SBRT
L. Nemiro (Latvia), O. Utehina, G. Boka, D. Purina, S. Maksimova, J. Frolova, S. Popov, V. Boka
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- > f-MRI signal changes following 3D conformal radiotherapy of GBM patients. Intra-observer variability results
A. Kovacs (Hungary), M. Emri, G. Opposits, G. Pisak, C.S. Vandulek, C.S. Glavak, G. Bajzik, I. Repa
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- > Interobserver variability in the delineation of cranial nerves
R. Wiggeraad (The Netherlands), A. Petoukhova, J.H. Franssen, G. Lycklama à Nijeholt, A. Verbeek- de Kanter, H. Struikmans
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- > Role of 11 C-Choline PET/CT in decision making strategy before salvage radiation therapy in prostate cancer
E. Villa (Italy), F. Alongi, T. Comito, C. Iftode, E. Lopci, P. Mancosu, R.L.E. Liardo, S. Tomatis, A. Chiti, M. Scorsetti
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- > Can dynamic susceptibility MRI be a potential imaging biomarker after radiotherapy?
T. Itonaga (Japan), H. Nakayama, Y. Tajima, S. Shiraishi, Y. Mikami, M. Okubo, S. Sugahara, K. Tokuyyye
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- > Prediction of waiting time for lung cancer patients
R. Soman (The Netherlands), A. Dekker, D. Emans, M. Jacobs, H. Backes, F. Van Merode
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- > Use of choline PET/CT for treatment decision by recurrent prostate cancer in South Germany – a pattern of care study
A.R. Strnad (Germany), T.H. Auberger, M. Panzer, M. Riepl, G. Becker, E.M. Weiss, R. Fietkau
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- > How useful and valid are cost effectiveness studies for the treatment of cancer with proton beam therapy?
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- > Functional requirements in public tendering for linear accelerators and ROKIS
G. Lutters (Switzerland), M. Heuser, S. Khan, E. Rabe, S. Bodis
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- > Guidelines for radiotherapy resources in Europe: A HERO project
P. Dunscombe (Canada), C. Grau, N. Defourny, B. Slotman, J. Malicki, J. Borrás, M. Coffey, M. Bogusz, C. Gasparotto, Y. Lievens
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- > Cost-benefits of 8Gy therapy for bone metastases: The born of the hospital without pain
A. Argenone (Italy), P. Ferraioli, G. De Palma, R. Di Franco, S. Falivene, V. Borzillo, M. Mormile, V. Ravo, P. Muto
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- > Implementing PRISMA-RT to analyze digitally reported (near) incidents and classify them for benchmarking
J. Verstraete (Belgium), S. Isebaert, F. Van den Heuvel, L. Mangelschots, K. Haustermans
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- > New indicators for volumetric radiotherapy: A proposal
P. Gabriele (Italy), E. Garibaldi, G. Cattari, C. Bracco, A. Maggio, A. Suma, G. Petrilli, G. Penduzzu, M. Stasi
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- > Added value of Spacer to IMRT treatment of prostate cancer: Is it cost-effective?
B.G.L. Vanneste (The Netherlands), M. Pijs-Johannesma, K.M. Smits, L. Lutgens, R. Houben, A. Hoffmann, L. Van De Voorde, E. Van Lin, B. Ramaekers, P. Lambin
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- > Comparison of the efficacy of particle therapy and photon therapy in the same patients
Y. Hattori (Japan), Y. Shibamoto, T. Takaoka, A. Hayashi, Y. Manabe, H. Iwata, C. Hashizume, T. Matsui, M. Mimura
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- > Intra-abdominal space modulated radiotherapy: Safety and efficacy of absorbable spacer in particle therapy
R. Sasaki (Japan), H. Akasaka, D. Miyawaki, N.S. Sulaiman, Y. Demizu, S. Yamada, M. Murakami, T. Fukumoto
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- > Merkel cell carcinoma - a retrospective review of cases treated in a University Hospital Trust from 2001-2008
H.V. Reddy (United Kingdom), C.M.L. Roberts, I.H. Leach, J. Bong, P.A. Lawton
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- > Radiotherapy prevention of heterotopic ossification at reconstructed hip fractures: Results and potential risks
N.G. Burnet (United Kingdom), P. Nasr, G. Yip, J.E. Scaife, T. House, S.J. Thomas, F. Harris, P.J. Owen, P. Hull, F.P. Treasure
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- > Total lymphoid irradiation in bronchiolitis obliterans syndrome after lung transplantation
L. Arbeláez (Spain), A. Giraldo, M. Altabas, O. Coronil, C. Bravo Masgoret, K. Loo, J. Giralt
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- > Radiotherapy for epithelial basal cell and squamous cell carcinoma: a national audit of current UK practice
A.J. McPartlin (United Kingdom), K. Chan, N.J. Slevin
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- > Dosimetric evaluation of a new design small volume detectors for small field high-energy photon beam
H. Hyun Do Huh (Korea Republic of), C. Sang Hyou Choi, K. Seong Hoon Kim, K. Kum Bae Kim, J. Young Hoon Ji, L. Chang Yeol Lee, K. Woo Chul Kim, K. Hun Jeong Kim, M. Chul Kee Min, C. Kwang Hwan Cho
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- > Evaluating the effect of energy on calibration of thermoluminescent dosimeters 7-LiF:Mg,Cu,P (GR-207A)
N. Banaee (Iran Islamic Republic of), H.A. Nedaie
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- > Basic dosimetric comparison of medical linear accelerator using FILUKA Monte Carlo model
A. Kummali (India), S. Thekkadath, M. MM, G. R. Raman
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- > Commissioning of the AquaphanTOM 1.1ho water phantom for quality assurance of electron linear accelerators
S. Kutscher (Germany), C. Müller, F. Fehlauer, S. Glessmer
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- > Dosimetric characteristics of fabricated silica fiber in measuring beam output under non-reference conditions
N. Mohd Noor (Malaysia), T. Kadni, A. Faizal, N. Tamchek, A. Abdul Kadir, D. Bradley
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- > Monte Carlo simulation of electron beams from medical linac using EGS5
A. Nevelsky (Israel), R. Bar-Deroma, I. Orion
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- > Feasibility of in vivo use of OSLDs and XR-RV3 films for measuring peripheral doses
D. Dechambre (Belgium), M. Hoornaert, M. Devillers, S. Sobczak
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- > Radiochromic film dosimetry: Considerations on accuracy for EBT2 and EBT3 type films
R. Dreindl (Austria), D. Georg, M. Stock
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- > Verification of a treatment planning system using an in-house designed head and neck phantom
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- > Development of a water tank-type lung phantom for dose verification and credentialing of lung SBRT clinical trial
T. Nishio (Japan), H. Shirato, M. Ishikawa, Y. Miyabe, S. Kito, Y. Narita, R. Onimaru, S. Ishikura, Y. Ito, M. Hiraoka
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- > Water phantom for absolute/relative dosimetry for brachytherapy radiation sources in clinical QA programm
V. Stserbakov (Estonia)
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E-POSTERS

- > Feasibility study of optical stimulated dosimeters for high dose evaluation in SBRT
S. Han (Korea Republic of), S. Choi, S. Park, H. Jung, C. Yi, H. Yoo, M. Kim, C. Kim, Y. Ji, K. Kim
- > Characterization of optically stimulated luminescent dosimeters for TBI in vivo dosimetric verification
M. Amin (Canada), B. Norrlinger, R. Heaton
- > Investigation of a bleaching dye for 3D radiochromic dosimetry
E. Høye (Denmark), P.S. Skyt, L.P. Muren, J.B.B. Petersen, P. Balling
- > Development of a proton beam dosimetry system using optical fiber array for the instant measurement of PDD curves.
J.M. Son (Korea Republic of), M.Y. Kim, D.H. Shin, M.G. Yoon, U.J. Hwang, S.B. Lee, Y.K. Lim
- > Set-up of a new online digital detector for peripheral neutron equivalent dose estimation in radiotherapy patients
J. Terron Leon (Spain), L. Irazola, M. Lorenzoli, R. Bedogni, A. Pola, M.V. Introini Bortot, A. Gentile Esposito, B. Sanchez-Nieto, M.R. Exposito, F. Sanchez-Doblado
- > Feasibility study to establish polymer gel dosimetry in a real lung tissue phantom
T. Moser (Germany), S. Armbruster, A. Runz, J. Biederer, C.P. Karger
- > Dosimetric characterization of a monolithic epitaxial silicon dosimeter for quality assurance in radiotherapy
C. Talamonti (Italy), M. Bruzzi, D. Menichelli, M. Scaringella, M. Zani, M. Bucciolini
- > Accuracy of radiophotoluminescence glass dosimeter for dose measurement of IMRT beam
S. Hashimoto (Japan), N. Tohyama, S. Ishikura, Y. Fujita, H. Saitoh, K. Karasawa
- > Characterization of alanine electron paramagnetic resonance detector in clinical carbon ion and proton beams
A. Carlino (Austria), M. Marrale, S. Panzeca, A. Longo, M. Brai, A. Bolsi, T. Lomax, E. Scifoni, M. Kraemer, M. Durante

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E-POSTERS

- > The angular response of a plane parallel ionization chamber in high energy photon beam
H. Geng (Hong Kong (SAR) China), B. Yang, K.Y. Cheung, S.K. Yu
- > Monte Carlo simulations of direct energy deposition in a novel micro-calorimeter
K. Fathi (United Kingdom), S. Galer, H. Palmans, L. Hao, J. Gallop, A. Nisbet, K. Kirkby
- > Commissioning of a novel heterogeneity phantom for fiber-coupled organic scintillator dosimetry
W. Ottosson (Denmark), A.R. Beierholm, C.F. Behrens, C.E. Andersen
- > Optimising the accuracy of the triple channel film dosimetry technique
S. Stevens (United Kingdom), J. Gesner
- > Flattening Filter Free phase space files: Comparison between Monte Carlo simulations and experimental data
M.F. Belosi (Switzerland), A. Fogliata, L. Brualla, J. Sempau, M. Rodriguez, A. Clivio, G. Nicolini, E. Vanetti, L. Cozzi
- > Monte Carlo simulation of lung shields for breast IORT with a dedicated mobile accelerator
R. Ayala (Spain), J.R. Sendón, R. García, P. Gallego, R. Polo, F. San Miguel
- > Energy response of XR-QA2 based radiochromic film dosimetry system
C. Mateus (Canada), N. Tomic, F. DeBlois, J. Seuntjens, S. Devic
- > Direct measurement of the secondary ion track yield in carbon ion irradiation of a PMMA phantom
M. Reinhardt (Germany), T. Gaa, G. Arico, L. Opalka, J. Jakubek, B. Hartmann, S. Pospisil, O. Jäkel, M. Martisikova
- > Comparison of a novel Schottky diamond diode with reference detectors for dosimetry of flattening filter free beams
A. Stravato (Italy), F. Lobefalo, M. Pimpinella, G. Reggiori, M. Marinelli, G. Verona-Rinati, A. Gaudino, P. Mancosu, M. Scorsetti, S. Tomatis
- > Dosimetric properties of a synthetic single crystal diamond diode in high energy clinical proton beams
G. Verona Rinati (Italy), M. Marinelli, G. Prestopino, C. Verona, A.K. Mandapaka, A. Ghebremedhin, B. Patyal

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E-POSTERS

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PHYSICS TRACK: DOSE MEASUREMENTS

- > The output stability of CyberKnife robotic radiosurgery unit: 5 years clinical experience
F. Biltekin (Turkey), M. Cengiz, H. Yucel, S. Eken, A. Dogan, M. Yeginer, M. Gurkaynak
- > Volumetric modulated arc therapy quality assurance: Characterisation and evaluation of Octavius 4D system
C. Lafond (France), L. Irazola, J.P. Manens
- > Reducing effectiveness of hair loss by additional lead block for electron treatment of eyelid lesion patients
I. Lee (Korea Republic of), C. Suh, H. Lee, J. Yoon, K. Park, Y. Chung, W. Choi, J. Kim
- > Neutron track detector for photo neutron measurements from high energy medical linear accelerator
S. Cyriac (India), A. Kummali, M. MM, G. R. Raman
- > Obtaining 5MV and 8MV energies from 6MV linear accelerator and investigating the advantages of using in IMRT
I. Catan (Turkey), A. Canbolat
- > The significance of carbon fiber couch top attenuation in a 6MV VMAT beam
S. McCormack (United Kingdom), G. Bee, A.M. Morgan
- > Feasibility study of diode detectors-based in-vivo dosimetry for dynamic and static IMRT plans of head&neck cases
E. Yedekci (Turkey), M. Yeginer, H. Kivanc, M. Gurkaynak, F. Akyol
- > Relationship of gamma index evaluation and dose-volume-histograms in patient individual IMRT quality assurance
S. Kantz (Germany), K. Huber, H. Weingandt, M. Reiner, C. Belka, M. Sohn
- > CaSO₄: Dy TLD for out-of field photon dosimetry in 3D-CRT and IMRT
S. Thekkadath (India), A. Kummali, M. MM, G. R. Raman
- > In vivo dosimetry with MOSFET and EBT3* film for total skin electron irradiation technique
A.G. Dias (Portugal), S. Silva, J. Lencart

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E-POSTERS

- > Dosimetric effects on radiotherapy of a patient transportation couch top
K. Cheung (Hong Kong (SAR) China), H. Geng, B. Yang, S.K. Yu, G. Chiu, K.F.F. Cheung
- > Time comparison of Gafchromic films and TLD for in vivo measurements of TBI
H.W. Hsiao (Taiwan), A.C. Shiau, C.S. Chui
- > Validation of a 3D dosimetric system using AAPM TG119 test suite
F. Clemente Gutierrez (Spain), C. Perez Vara
- > The effect of hip prosthesis on dose distribution: In vivo thermoluminescent dosimeter in a cervical cancer patient
G. Yazici (Turkey), S.D. Birgi, F.Y. Yedekci, M. Gultekin, P. Hurmuz, F. Yildiz, M. Gurkaynak, G. Ozyigit
- > Evaluating the delivery accuracy of volumetric modulated arc therapy (VMAT) treatments
A. Scaggion (Italy), A. Negri, M. Paiusco, M.A. Rossato, A. Roggio
- > Pre-clinical planning and dosimetric verifications of a TomoEdge unit: Differences between fixed/dynamic jaw mode
P. Mangili (Italy), B. Longobardi, P. Colombo, C. Sini, G.M. Cattaneo, R. Calandrino
- > Gantry angle dependence pre-treatment patient-specific quality assurance and gamma index variation study
S. Thekkadath (India), A. Kummali, M. MM, G. R. Raman
- > In vivo measurements in helical Tomotherapy (MOSFET and gafchromic EBT3): Importance of water equivalent thickness
C. Dejean (France), O. Ribot, M. Gautier, J. Feuillade, S. Marcié
- > Effect of couch sag on treatment beam width measurement of Tomotherapy machine using solid water slab
C. Kong (Hong Kong (SAR) China), H. Geng, W. Lam, W. Wong, S. Yu, K. Cheung
- > Additional exposure by backscattering at high density dental prosthetics in the radiotherapy
N. Wißmann (Germany), D. Dirksen, D.G.J. Suwelack, J. Kriz, C.H. Runte, H.T.H. Eich, U. Haverkamp

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E-POSTERS

- > Dosimetric effects of multileaf collimator leaf width on intensity-modulated radiotherapy for head and neck cancer
S.G. Ju (Korea Republic of), C.S. Hong, M.K. Kim, J.I. Kim, T.S. Suh, Y.I. Han, Y.C. Ahn, D.H. Choi, H.R. Nam, H.C. Park
- > Pre-treatment plan verification of VMAT using two-dimensional array: Initial results of head and neck patients
M. Durai (India), H. Umbrani, D. Badak, A. Grover
- > The efficacy of applying heterogeneity correction factors on ArcCHECK for IMRT and VMAT pre-treatment verification
W.W. Lam (Hong Kong (SAR) China), H. Geng, C.W. Kong, K.Y. Cheung, S.K. Yu
- > A Monte Carlo evaluation of beam characteristics for total body irradiation
M. Krantz (Sweden), R. Chakarova
- > In-Vivo verification of tomotherapy treatment plans using the MVCT detectors
M. Coevoet (Belgium), G. Olivera, S. Key, W.L. Xiaohu Mo, C. Mingli, S. Vynckier, E. Sterpin
- > Evaluation of 3D dose measurement for breathing motion in lung cancer SBRT
C.H. Choi (Korea Republic of) N.Y. Jang, J.I. Kim, J.M. Park, W. Cho, H.G. Wu, S.J. Ye
- > Variation of Gamma Index depending on the spatial resolution for prostate IMRT QA
T. Hwang (Korea Republic of), S.K. Kang, H. Bae, T.S. Suh
- > Evaluation of a predictive system of perturbations in the DVH from pre-treatment Quality Assurance data
M. Fortunato (Italy), A. Gambirasio, P. Colleoni, S. Andreoli, C. Sfriso, R. Moretti
- > Beam matching of linacs with Elekta agility and MLCi2 heads - Energy, profiles, and output factors
H.S. Rønde (Denmark), B. Mortensen
- > A method to improve VMAT delivery
L. Trombetta (Italy), A.F. Monti, M.G. Brambilla, C. Carbonini, M.B. Ferrari, D. Zanni, A. Torresin

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E-POSTERS

- > Impact of patient-applicator air-gap in dedicated mobile accelerator for Intra-Operative Radiation Therapy
R. García Marcos, M. Vidal, P. Ibáñez, R. Ayala, R. Sendón, R. Polo, J.M. Udías (Spain)
- > Evaluation of a prototype in vivo dosimetry device
S. Graydon (Switzerland), S. Verlaan, S. Lang, T. Matzen, S. Klöck
- > High resolution portal image prediction for radiotherapy treatment verification & in vivo dosimetry
D. Patin (France), E. Barat, T. Dautremer, T. Montagu, C. Le Loirec, L. Guérin, A. Batalla, D. Lazaro
- > The effect of the frequency of absolute dose calibration on the performance of ArcCHECK in helical TomoTherapy DQA
W.K.R. Wong (Hong Kong (SAR) China), S.G. Lo, K. Cheung, S.K. Yu
- > Study of skin sparing effect of a patient transportation couch top
B. Yang (Hong Kong (SAR) China), H. Geng, K.Y. Cheung, S.K. Yu, G. Chiu, K.F.F. Cheng, W.L.A. Mui
- > Evaluation of an EPID- based in vivo dosimetric system in the presence of lung tissue heterogeneity
E. Lliso (Spain), J. Gimeno, M.C. Pujades, T. Garcia, R. Palomo, V. Carmona, F. Ballester, J. Perez-Calatayud
- > In vivo lung dose estimation during total body irradiation with Gafchromic EBT3 films
T. Streller (Switzerland), A. Stüssi Lobmaier, S. Lang, O. Riesterer, S. Klöck
- > Acceptance tests of a set of Valencia skin applicators
P. Saldaña (Spain), G. Reynés-Llompert, F. Pino, I. Modolell, I. Sancho, C. Picón
- > Use of a commercial EPID dosimetry system in VMAT pre-treatment QA
M. Parisotto (Italy), C. Carbonini, M.G. Brambilla, A.F. Monti, M.B. Ferrari, D. Zanni, A. Torresin
- > The influence of calculation parameters on the patient-QA of p-SBRT plans with VMAT
E. Moretti (Italy), M.R. Malisan, C. Foti, A. Magli

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E-POSTERS

- > Radiation isocenter verification using the electronic portal imaging device
J.A. Merino (Spain), B.C. Portas, P. Rosa, M.L. Chapel, S. Fernandez, E.G. Medina, S. Ramos, P. Vazquez, F. Husillos
- > Dose delivery verification of craniospinal irradiation using IMRT
A.T. Kim (Canada), Y.K. Lee, P. Zhao, A. Karotki
- > Quality index to predict differences between planned and measured dose due to limitations in TPS
J. Götstedt (Sweden), A. Karlsson Hauer, A. Bäck
- > 2D/3D EPID-based in-vivo dosimetry: Preliminary results
J. Camilleri (France), J. Mazurier, D. Franck, M. Ducassou, O. Gallocher, I. Latorzeff, D. Marre, N. Mathy, D. Zarate, X. Franceries
- > Evaluation of the accuracy of the Varian Eclipse AAA algorithm to calculate dose through a hip prosthesis
A. Esmail (United Kingdom)
- > Advantages of patient specific VMAT pre-treatment quality assurance with cylindrical geometry
J. Barbieri (USA), A. Kapulsky, A. Ndlovu
- > Is delivered multi-isocenter TMI by VMAT consistent with the planned one? In-vivo dosimetry study using GafChromic
A. Gaudino (Italy), S. Tomatis, M. Scorsetti, P. Navarria, F. Lobefalo, V. Palumbo, G. Reggiori, A. Stravato, L. Castagna, P. Mancosu
- > Multichannel absolute film dosimetry for EBT3 GafChromic films
T. Ventura (Portugal), M.C. Lopes, B.C. Ferreira
- > Dosimetric quality assurance in precision robotic radiotherapy: which type of detector suits best?
W. Baus (Germany), R. Fouassi, K. Luyken
- > Dosimetric comparison between 3D detectors arrays and portal dosimetry for VMAT treatments
D. Nguyen (France), G. Largeton, F. Josserand-Pietri, Z. Hajji, M. Khodri
- > Use of EBT3 Gafchromic films for Monte Carlo validation of Cyberknife™ treatment plan
P. Coutand (France), J.N. Badel, F. Lafay, C. Malet, M. Zahra-Ayadi

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E-POSTERS

- > Confidence in VMAT EPID pre-treatment QA
A.F. Monti (Italy), L. Trombetta, M.G. Brambilla, C. Carbonini, A. Torresin
- > 3D reconstruction of 1D water tank profile series to enable volumetric evaluation of beam models
J. Wolthaus (The Netherlands), B.W. Raaymakers, B. Van Asselen
- > Patient-specific QA for CyberKnife plans using 2D ion chamber array
S. Adamczyk (Poland), A. Skrobala, M. Adamczyk, B. Pawalowski
- > Gamma analysis for VMAT pre-treatment QA: Is it possible to establish a common acceptance level?
A. Negri (Italy), A. Scaggion, M. Rossato, D. Canonico, R. Zandonà, M. Paiusco
- > Measuring output factors for flattening filter free beams: A case study of the Elekta Versa HD
H.L. Riis (Denmark), A.R. Beierholm, S.J. Zimmermann, J. Helt-Hansen, C.E. Andersen
- > An experimental method for IMRT transit dose verification using an a-Si EPID system
M. Saboori (Germany), M. Schmidt, M. Mohammadi, C. Bert, R. Muller
- > Clinical implementation of dosimetry check, EPID based in-vivo dosimetry for volumetric modulated arc therapy
M. Gilmore (United Kingdom), N. Gunson, C. Furlong, A.M. Gately, A.J. Reilly
- > Application of statistical process control (SPC) to patient-specific VMAT quality assurance
S. Cilla (Italy), P. Viola, M. Craus, F. Deodato, G. Macchia, C. Digesù, G. Sallustio, A. Piermattei, A.G. Morganti
- > Commissioning of a linear accelerator for intra-operative treatments using electron beams
D. Lambisto (Spain), A. Herreros, F. Pons, I. Romera, A. Camarasa, J. Garcia-Miguel, C. Quilis, J. Sola, A. Biete, B. Farrus
- > A dosimetric study of photon small fields using polymer gel and Gafchromic EBT films
H. Hassani, H.A. Nedaie (Iran Islamic Republic of), M.H. Zahmatkesh, N. Banaee, K. Shirani, S. Mirzaee, M. Samei

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E-POSTERS

- > Stereotactic radiosurgery dose quality assurance: a commercial plastic scintillation versus a diamond detector
G. Dipasquale (Switzerland), C. Sedmak, P. Nouet, S. Beddar, A. Dubouloz, M. Rouzaud
- > Testing the machine performance check application
A. Clivio (Switzerland), E. Vanetti, G. Nicolini, A. Fogliata, M.F. Belosi, L. Cozzi, S. Rose, C. Baltes
- > Assessment of different detectors for relative output factor measurements for the Leksell Gamma Knife Perfexion
P. Kozubikova (Czech Republic), J. Pipek, J. Novotny jr., J.P. Bhatnagar, M.F. Desrosiers, J. Jedlicka, M.S. Huq
- > Treatment-based portal dosimetry for VMAT using integrated images
J.L. Bedford (United Kingdom), I.M. Hanson, V. Nordmark Hansen
- > Linac model optimisation loop enables high-resolution dose reconstruction from low-resolution measurements
J. Godart (The Netherlands), R. Visser, D.J.L. Wauben, A.A. Van 't Veld, E.W. Korevaar

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PHYSICS TRACK: DOSE CALCULATION

- > Monte Carlo simulation of proton beams and CTs using GATE in a cloud computing environment
B. Rowedder (USA), B. Ma, Y. Kuang
- > Comparison of dose calculations between pencil-beam and Monte Carlo algorithms in arc therapy with 3DVH software
S.H. Son (Korea Republic of), J.H. Song, H.J. Shin, C.S. Kay
- > Implication of different calculation algorithms in breast radiotherapy: pencil beam vs collapsed cone convolution
S. Cilla (Italy), C. Digesù, G. Macchia, F. Deodato, M. Ferro, V. Picardi, G. Sallustio, A. Piermattei, A.G. Morganti
- > Effect of calculation grid on the dose difference between AAA and Acuros XB algorithm for lung SBRT treatment
B. Huang (China), L. Wu, P. Lin, J. Chen, X. Peng, M. Zhou, Z. Lin, Z. Chen, D. Li, C. Chen

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E-POSTERS

- > The accuracy of dose calculation in wedge fields of the Analytical Anisotropic Algorithm for 6 and 10 MV photon beams
S. Rutchantuek (Thailand), N. Stansook, P. Changkaew, S. Sakulsingharoj
- > Integration and evaluation of a DICOM interface in a Monte Carlo simulated medical linear accelerator
G. Hürtgen (Germany), N. Escobar-Corral, C. Schubert, S. Lotze, A. Schmachtenberg, A. Stahl, M.J. Eble
- > Evaluation of MRI-based radiotherapy treatment planning using look up table
Y.N. Kang (Korea Republic of), H.S. Jang, B.O. Choi, H.J. Shin, C.S. Kay, S.H. Son
- > A method for assessing the changes of dose calculation algorithms and irradiation techniques in radiation therapy
A. Chaikh (France), J.Y. Giraud, J. Balosso,
- > Dose distributions for CCX, CCA and CIA applicators: Plaque Simulator vs. PENELOPE Monte Carlo code
A. Cano-Herranz (Spain), C. Delgado-Soler, N. Anducas-Santiago, M. Hermida-López
- > A fast Monte Carlo-based calculation algorithm for a Intra-Operative Radiation Therapy TPS: A validation study
J.M. Udias (Spain), P. Ibáñez, M. Vidal, R. García-Marcos, G. Russo, C. Casarino, G.C. Candiano, G. Borasi, C. Messa, M.C. Gilardi
- > Dose planning of a total body irradiation with Volumetric Modulated Arc Therapy (VMAT)
A. Springer (Austria), E. Winkler, E. Putz, A. Altenburger, R. Gruber, K. Moser, C. Track, J. Hammer, H. Geinitz
- > Treatment planning using passive grid block for spatially fractionated GRID radiation therapy
A. Nobah (Saudi Arabia), M. Mohiuddin, S. Devic, B. Moftah
- > Dosimetric comparison of AAA and Acuros XB algorithms for lung stereotactic radiotherapy
O. Senkesen (Turkey), E. Goksel, H. Kucucuk, M. Yilmaz, E. Tezcanli, M. Garipagaoglu, M. Sengoz
- > Evaluation of a commercially available software for 3D dose and delivery verification of radiation treatment plans
P. Sibolt (Denmark), U. Bjelkengren, S.K. Buhl, D. Sjöström, C.F. Behrens

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E-POSTERS

- > Accuracy of contralateral breast doses using different treatment planning algorithms
J. Heikkilä (Finland), J. Seppälä, T. Virén, T. Lahtinen
- > Accuracy of dose calculation algorithms for static and rotational IMRT in the thorax
C. Sini (Italy), S. Broggi, C. Fiorino, G.M. Cattaneo, R. Calandrino

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PHYSICS TRACK: TREATMENT PLANNING AND PLAN COMPARISONS

- > What dose distribution metrics in the PTV can be used instead of the generalized Equivalent Uniform Dose?
P. Kukolowicz (Poland), M. Mrozowska
- > Volumetric modulated arc therapy for advanced breast cancer
P. Yu (Taiwan)
- > Comparison of VMAT treatment planning techniques with 3D conf. planning in non-stereotactic lung cancer treatment
A. Altenburger (Austria), H. Geinitz, J. Feichtinger, A. Springer
- > How much does non-coplanar beam reduce renal dose in treating gastric malignant lymphoma?
T. Toyoda (Japan), A. Terahara, K. Nakagawa, K. Ohtomo, M. Akahane
- > Separated partial arc VMAT compared with single full or angled partial arc VMAT for the prostate carcinoma
H. Nagano (Japan), H. Yokoyama, H. Hashimoto, M. Watanabe, M. Nakanishi, Y. Aoyama, Y. Kishida, T. Onishi
- > Comparison of normal tissue dosimetry for 3D-CRT and IMRT techniques in prostate irradiation
C. Pesznyak (Hungary), T. Pócza, B. Bencsik, T. Major, P. Ágoston, Z. Szabó, K. Jorgo, C. Polgár
- > Comparison of Volumetric-Modulated Arc Therapy plans using constant dose rate and variable dose rate options
R. Nagarajan (India), P.V. Srinivas, D. Mangesh, C. Rupal, P. Aadesh

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E-POSTERS

- > Comparative analysis of PTV and OAR DVH parameters in gynecologic patients receiving postoperative IMRT or 3D-RT
J. Velasco-Jimenez (Spain), P. Castro-Tejero, M.F. García-Cenoz, M. Hernandez-Miguel, C.A. Regueiro-Otero, C. De la Fuente-Alonso, R. Moleron-Mancebo, R. Benlloch-Rodriguez, A. De la Torre
- > Potential role of VMAT and DIBH in the locoregional irradiation of left breast cancer.
F. Azoury (Lebanon), D. Nehme Nasr, N. Khater, J. Barouki, N. Farah, C. Samaha, T. Felfely, E. Nasr
- > Feasibility study of volumetric modulated arc therapy with constant dose rate for endometrial cancer
R. Yang (China), J.J. Wang, F. Xu, H. Li, X.L. Zhang
- > Comparative dosimetric analysis of intensity modulated radiotherapy and volumetric modulated arc therapy
M. Athar Ali (India), M. Babaiah, G. George, N. Madhusudhan, K. Ramalingam, S. Ashok Kumar, K. Karthikeyan, A. Anantharaman, J. Shanu
- > Comparison of 3-dimensional conformal radiotherapy and intensity modulated radiotherapy for breast cancer
H. Kivanc (Turkey), M. Gultekin, F. Yildiz, M. Gurkaynak
- > Hippocampal-sparing WBRT using VMAT technique
R. Bar-Deroma (Israel), I. Fotina, A. Nevelsky
- > The effect of FFF for patients receiving pelvic radiotherapy using volumetric modulated arc therapy technique
E. Erdogan (Turkey), O. Guneyli, M. Garipagaoglu, H. Kucucuk
- > Comparison of IMRT and VMAT plans with different energy levels using monte carlo algorithm for prostate cancer
O.C. Güler (Turkey), C. Onal, G. Arslan, S. Sonmez
- > Comparison of IMRT-plans and volumetric modulated arc therapy for an ARTISTE accelerator
U. Spahn (Germany), F.J. Prott
- > Dosimetric comparison between GPU and CPU cluster based Tomotherapy dose engine for different anatomical districts
A. Maggio (Italy), A. Di Dia, S. Bresciani, C. Cutaia, A. Miranti, M. Stasi

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E-POSTERS

- > The dosimetric effects of the breath-hold technique for helical tomotherapy
M. Yamamoto (Japan), T. Endo, N. Koshi, K. Masumoto, M. Tanemura
- > Dosimetric comparison of dynamic treatment plans based on manual and automatic beam angle selection
J. Litoborska (Poland), T. Piotrowski
- > VMAT radiosurgery: A planning study to reduce healthy brain dose
A. Serna (Spain), V. Puchades, F. Mata, D. Ramos
- > Dosimetric comparison of intensity-modulated and 3D conformal accelerated partial breast irradiation
G. Stelczer (Hungary), N. Meszaros, C. Pesznyak, T. Major, C. Polgar
- > Dosimetric comparison of IMRT versus 3DCRT for breast irradiation with simultaneous integrated boost (SIB)
J. Calvo Ortega (Spain), S. Moragues Femenia, M. Pozo Masso, J. Casals Farran
- > Dosimetric influence of tumor motion for different types of lung stereotactic treatment planning
V. González Pérez (Spain), V. Crispin Contreras, D. Abad Mocholí, A. Bartrés Salido, V. De los Dolores Alemany, C. Guardino de la Flor
- > Analysis of RapidArc optimization strategies in the treatment of prostate cancer
M. Adamczyk (Poland), T. Piotrowski
- > A planning study comparing two SIB-techniques in patients with breast cancer
S. Pensold (Germany), H. Tümmeler, P. Schilling, B. Theilig, K. Merla, A. Schreiber
- > A new hybrid VMAT technique for accelerated whole breast irradiation with hypofractionation plus concurrent boost
A. Serna Berná (Spain), J.F. Mata Colodro, V. Puchades Puchades, D. Ramos Amores
- > Hypo fractionated breast IMRT treatment with simultaneous versus sequential boost technique
S. Moorthy (Bahrain), H. Elhateer, H. Shubber, J. Jacob samuel, P. Nishadevi, K. Jayesh

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- > Dosimetric feasibility of a simplified fixed-field IMRT technique for total marrow irradiation
M. Hermida-López (Spain), X. Fa, J. Saez, R. Vergès, J. Giral
- > Dosimetric comparison of VMAT and linear accelerator based radiosurgery for the treatment of 1-4 brain metastases
A.L. Salkeld (Australia), K. Unicomb, A.J. Hayden, K. Van Tilburg, S. Yau, K. Tiver
- > TomoEDGE comparison in the treatment of anal canal carcinomas
N. Corradini (Switzerland), A. Franzetti-Pellanda, M. Biggiogero, M. Leick, K. Schombourg, G. Ballerini, L. Negretti
- > Comparison of flattening filter applied and not applied IMRT plans in prostate cancer
O. Guneyli (Turkey), E. Erdogan, M. Garipagaoglu, H. Kucucuk
- > An analysis of the dose distribution in the SCOPE 1 oesophageal cancer trial data
R. Carrington (United Kingdom), E. Spezi, S. Gwynne, P. Dutton, C. Hurt, J. Staffurth, T. Crosby
- > The effect of moderate deep inspiration breath hold on heart dose for prone left-sided whole breast irradiation
T. Mulliez (Belgium), L. Veldeman, B. Speleers, K. Mahjoubi, V. Remouchamps, A. Van Greveling, M. Gilsoul, D. Berwouts, Y. Lievens, W. De Neve
- > Radiation dose drop off comparison for stereotactic body radiation therapy
M. Liu (Canada), A. Houle, E. Berthelet, D. Schellenberg
- > 3D or 4D Monte Carlo optimization in robotic tracking stereotactic body radiotherapy (SBRT) of lung cancer?
M.K.H. Chan (Hong Kong (SAR) China), W.Y. Lee, W.K. Leung, D.L.W. Kwong
- > Assessing the dosimetric impact of tumour motion during lung SBRT with the RayStation TPS and Elekta Agility linac
R. Sims (New Zealand), B. Mzenda, K. Mugabe, D. Loria
- > Dosimetric studies of mixed field IMRT for prostate cancer using multi optimization on treatment plans
A. Kummali (Italy), T. Siji Cyriac, K.K. Shakir, A. Siddartha, M.M. Musthafa, R. Ganaptraman

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E-POSTERS

- > A novel Hybrid Volumetric Modulated Arc Therapy (H-VMAT) technique for primary cervical spine malignant tumors
X.L. Zhang (China), R.J. Yang, N. Meng, M.Z. Li, J.J. Wang
- > Is IMRT superior to 3D-CRT for post-mastectomy loco-regional irradiation? An in silico comparative planning study
P. Khullar (India), S. Sinha, C. Garg, N.R. Datta
- > Normal tissue irradiation during micro-MLC based SRT or SRS: impact of the prescription isodose
G. Delpon (France), M. Dore, S. Josset, A. Lisbona, F. Thillays, S. Chiavassa
- > Prone accelerated partial breast irradiation with MERT+IMRT using a Monte Carlo treatment planning system.
E. Jiménez-Ortega (Spain), L. Brualla, A. Ureba, J.A. Baeza, A. González, A.R. Barbeiro, J. Roselló, J. López-Torrecilla, J. Ferrer, A. Leal
- > An in silico comparison of scanned carbon ion vs. SBRT single dose treatment of metastatic lung cancer
K. Anderle (Germany), J. Stroom, N. Pimentel, C. Greco, M. Durante, C. Graeff
- > Proton pencil beam scanning as a RT modality in breast cancer: A comparison to gated and non-gated photon techniques
P. Witt Nyström (Sweden), A. Koszewska-Flejmer, A. Edvardsson, D. Josefsson, T. Breslin, A. Dasu
- > Clinical evaluation of treatment plans of Stereotactic Body Radiotherapy for liver tumors
G. Boka (Latvia), O. Utehina, I. Nemiro, D. Purina, M. Bukovska, S. Bikova, S. Popov, V. Boka
- > A novel integrated VMAT/IMRT technique for the treatment of non-small-cell lung cancer
N. Zhao (China), R.J. Yang, J.J. Wang, N. Meng, P. Jiang, J.N. Li, X.L. Zhang
- > A dosimetric comparison of Helical Tomotherapy and VMAT in the treatment of high risk prostate cancer
T. Lacornerie (France), F. Cavillon, R. Harduin, P. Compte, N. Reynaert, E.F. Lartigau, D. Pasquier

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E-POSTERS

- > Total scalp irradiation using Helical Tomotherapy with a helmet bolus printed using a 3D printer
J.S. Kim (Korea Republic of), S.G. Ju, M.K. Kim, D.H. Lim, C.S. Hong, D.H. Choi, K.Z. Chung, Y.I. Han, J.S. Kim, S.H. Ahn
- > Inverse planning of MERT for clinically motivated situations
D. Henzen (Switzerland), M.K. Fix, D. Frei, W. Volken, H. Neuenschwander, A. Joosten, K. Lössl, D.M. Aebersold, P. Manser, M.F.M. Stampanoni
- > Improvement in stereotactic radiosurgery planning and delivery using Monaco SSO and Apex Micro MLC.
C. Jennings (United Kingdom), M. Ramtohul
- > Accuracy of inverse treatment planning on substitute CT images derived from MR data in brain lesions
J. Jonsson (Sweden), M. Akhtari, M. Karlsson, A. Johansson, T. Asklund, T. Nyholm
- > Investigation of plan robustness regarding patient setup using Monte Carlo methods
W. Volken (Switzerland), D. Frei, P. Manser, D. Terribilini, A. Dal Pra, M. Schmücking, M.K. Fix
- > Simultaneous integrated boost to intraprostatic lesions using different energy levels of IMRT and VMAT
C. Onal (Turkey), O.C. Guler, S. Sonmez, G. Erbay, G. Arslan
- > Development of novel conformity indices for quantitative comparison of radiation treatment plans
J. Park (Korea Republic of), S. Park, H. Wu, S. Ye, J.H. Kim, J. Kim
- > Increasing the plan quality of volumetric modulated arc therapy with increased number of arcs
W.F.A.R. Verbakel (The Netherlands), J.P. Tol, B.J. Slotman, M. Dahele
- > Planning study of SBRT for localized prostate cancer among VERO, TomoTherapy, and Cyberknife
K. Nihei (Japan), S. Hashimoto, T. Shimizuguchi, H. Tanaka, Y. Machitori, M. Fujii, K. Karasawa
- > Comparison of the treatment planning parameters used in tomotherapy for dose painting plans
M. Skorska (Poland), J. Kazmierska, A. Ryczkowski, T. Piotrowski

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- > FDG-PET based dose painting in head and neck tumors: a dosimetric comparison between TomoTherapy and RapidArc
S. Differding (Belgium), N. Hermand, B. Vanstraelen, S. Nuyts, K. Haustermans, J.A. Lee, V. Grégoire, E. Sterpin
- > Volumetric modulated arcs with flattening filter-free beams for recurrent nasopharyngeal carcinoma
M. Zhuang (The Netherlands), D. Zhu, L. Huang, X. Peng, Q. Qiu, R. Wu, Z. Lin, Z. Chen
- > Accelerated partial breast irradiation using the CyberKnife: A feasibility study
E. Rault (France), T. Lacornerie, H.P. Dang, E. Lartigau, N. Reynaert, D. Pasquier
- > 4D dose calculation for SBRT using deformable image registration and probability density function of lung tumor
T. Shiinoki (Japan), S. Kawamura, H. Hanazawa, T. Uehara, Y. Yuasa, S. Park, M. Koike, R. Kanzaki, K. Shibuya
- > Assessment of tangential VMAT technique for conventionally operated left-sided breast cancer
J. Seppala (Finland), J. Heikkila, T. Virén, K. Myllyoja, K. Koskela, T. Lahtinen
- > Effect of Dynamic Jaw on plan quality, dose fall-off, treatment time and integral dose in Tomotherapy plans
Z. Master (Singapore), A. Ong, J. Tuan, F. Chin

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PHYSICS TRACK: TREATMENT PLAN OPTIMISATION

- > Evaluation of re-optimisation based on AAA-calculated VMAT plan and dose distribution in Eclipse
A. Haraldsson (Sweden), H.B. Benedek, P.E. Engström, T. Knöös
- > On the robustness of VMAT for SABR treatment plans vs. patient positioning uncertainties
L. Cozzi (Switzerland), J. Stroom, S. Vieira, D. Mateus, A. Fogliata, A. Clivio, E. Vanetti, G. Nicolini, C. Greco
- > A tool for minimal mean lung dose prediction
A. Zawadzka (Poland), P.F. Kukulowicz, M. Nesteruk, B. Brzozowska

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E-POSTERS

- > Optimal skin retraction for Helical Tomotherapy breast planning – robustness vs skin dose
E. Crop (France), R. Heckel, D. Pasquier, E. Lartigau, N. Reynaert
- > Mass-based generalized equivalent uniform dose inverse optimization
I. Mihaylov (USA), E. Moros
- > Quality assurance of clinical dosimetry using reference dose volume histogram
A. Perez-Rozos (Spain), M. Lobato, I. Jerez Sainz, C. Jodar, M. Pamos
- > Defining robustness planning protocols: Including robustness into the clinical plan selection in proton therapy
S. McGowan (United Kingdom), F. Albertini
- > IPSA and HIPO optimisation algorithms for prostate HDR brachytherapy: Comparison with radiobiological indices
V. Panettieri (Australia), R.L. Smith, N.J. Mason, C. Beaufort, J.L. Millar
- > Adaptation of an experienced-based quality control model for VMAT, accounting for proximity of OAR to target volumes
A. McWilliam (United Kingdom), J. Pilkington
- > Trajectory optimized dynamic couch rotation VMAT for craniopharyngioma
G. Smyth (United Kingdom), P.M. Evans, J.C. Bamber, H.C. Mandeville, F.H. Saran, J.L. Bedford

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PHYSICS TRACK: RADIOBIOLOGICAL MODELLING

- > Target equivalent uniform dose as a quality indicator for head-and-neck IMRT treatment plans
C. Constantinescu (Saudi Arabia), R. Al-Wassia, A. Al-Hebshi, Y. Bahadur
- > Influence of image slice thicknesses on rectal dose response relationships following prostate cancer radiotherapy
C.E. Olsson (Sweden), M. Thor, A. Apte, M. Liu, V. Moissenko, J.O. Deasy
- > Predicting survival and tumour control probability for SBRT treatments - a comparison between the LQ and USC models
E. Lindblom (Sweden), I. Lax, A. Dasu, I. Toma-Dasu

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E-POSTERS

- > Effect of 4DCT and CBCT Imaging doses on cell survival in subsequent radiotherapy
L. Rogers (Australia), N. Suchowerska, A. Ralston, D.M. McKenzie
- > Applying 'macroscopic' radiobiology to radiotherapy treatment escalation and individualization
D. Karia (United Kingdom), J. Uzan, C. Baker, A. Nahum
- > Investigating conversion of malignant induction probability to cancer mortality
A.M. Madkhali (United Kingdom), C.L. Timlin, M. Partridge
- > Estimation of the rectal and urethral NTCP parameters in carbon ion therapy for prostate cancer
M. Fukahori (Japan), T. Himukai, N. Matsufuji, N. Kanematsu, H. Tsuji, T. Kamada
- > Impact of dose and sensitivity heterogeneity on TCP
K. Wiklund (Sweden), B.K. Lind, I. Toma-Dasu
- > Should dose escalation in oesophageal cancer be re-visited? A radiobiological analysis
S. Warren (United Kingdom), M. Partridge, M. Hawkins, R. Carrington, T. Crosby, C.N. Hurt
- > Clinical OER of tumors in carbon ion radiotherapy and the influence of local oxygenation changes
L. Antonovic (Sweden), A. Dasu, I. Toma-Dasu
- > NTCP models for radiation-induced esophagitis in non-small cell lung cancer
M.A. Carrasco Herrera (Spain), M. Baeza Trujillo, J.L. López Guerra, E. Montero Perea, R. Peñalver, S. Pérez-Luque, A. Gómez Puerto, M. Herrador Córdoba, M.J. Ortiz

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PHYSICS TRACK: INTRAFRACTION MOTION MANAGEMENT

- > 3D surface imaging for intrafraction motion management in pelvic tumours radiotherapy therapy
G. Apicella (Italy), S. Torrente, G. Loi, S. Crespi, D. Beldi, M. Brambilla, M. Krengli

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- > Left sided breast radiotherapy with respiratory gating: Deep inspiration breath hold versus free breathing
B. Gunhan (Turkey), A. Arifoglu, Z. Ozen, R. Ibrahimov, N. Kayalilar, K. Yakar, S. Gurdalli, A. Ober, U. Abacioglu
- > Novel method of using 4D array system to evaluate effect of organ motion on target dose in conformal VMAT deliveries
M. Saberi (United Kingdom), M.W.S. Shingler
- > Development of a detection system for intra-fractional motion in intracranial treatment using surface pressure
H. Inata (Japan), F. Araki, Y. Nakaguchi, Y. Hamamoto, S. Nakayama, Y. Kuribayashi, N. Sodeoka, O. Nishizaki
- > Fast evaluation of interplay effects in proton scanning therapy for mobile targets in free breathing patients
A. Protik (The Netherlands), M. Van Herk, J.J. Sonke, Y. Szeto
- > Can pre-treatment 4DCT-based motion margins estimates be trusted for proton radiotherapy?
J. Seco (USA), O. Koybasi, P. Mishra, S. St James, J.H. Lewis
- > PTV margin calculation and time dependency monitoring of intrafraction isocenter movement in lung SBRT by ExacTrac
S. Paul (India), B. Sarkar, T. Ganesh, A. Munshi, R. Kumar, B.K. Mohanti
- > Control of respiratory motion by hypnosis intervention during radiotherapy of lung cancer
Y. Xie (China), R. Li
- > Automated pancreas segmentation and motion tracking based on dynamic MRI
S. Gou, P. Hu, J. Wu, F. Liu, K. Sheng (USA)
- > Improving the set-up of breast cancer patients during radiation treatment using an optical surface scanning system
C. Thornberg (Sweden), M. Kügele, A. Edvardsson, S. Ceberg
- > Respiratory motion patterns during free breathing radiotherapy and implications for offline correction protocols
G. Sanchez-Merino (Spain), J. Cortes-Rodicio, R. Lope-Lope, T. Martín-González, M.A. García-Fidalgo

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- > Breathing irregularity of free-breathing lung and liver tumor patients over the course of SBRT
M. Weichel, R. Werner, C. Petersen, T. Gauer (Germany)
- > Dosimetric evaluation of gated rotational radiotherapy
M. Falk (Denmark), F. Kjaer-Kristoffersen, J.P. Bangsgaard
- > Prostate intrafraction motion assessment using a temporary-implanted wired electromagnetic tracking system
A. Vai (Italy), A. Pierelli, F. Locatelli, V. Vavassori, E. Della Bosca, A. Ravasio, M. Motta, V. Manazzale, P. Salmoiraghi
- > In vivo dosimetry as verification of delivered dose leading to an adaptive radiotherapy
G. Pastore (Italy), V. Reggioli, F. Casamassima, C. Menichelli, A. Fanelli
- > Monitoring of surface motion for 4D CT and gated radiotherapy
S.L. Bekke (Denmark), J. Helt-Hansen, F. Mahmood, C.F. Behrens
- > Evaluation of consistency tumor repositioning during multiple breathing cycles for liver stereotactic treatment
L. Bedos (France), O. Riou, J. Molinier, A. Braccini, C. Llacer-Moscardo, N. Aillères, D. Azria, P. Fenoglietto
- > Positional stability of stereotactically irradiated lung tumors in 100 patients
S.A. Koch (The Netherlands), E.B. Van Dieren, D.P. Woutersen
- > Dose analysis of organs at risk dependent on non-PTV and PTV-based breast irradiation in different breathing modes
B. Zurl (Austria), H. Stranzl, R. Flitsch, K.S. Kapp
- > Reduced cardiac and pulmonary complication probabilities for breast cancer radiotherapy using respiratory gating
A. Edvardsson (Sweden), M. Nilsson, S. Amptoulach, S. Ceberg
- > Development of hybrid dynamic tumor tracking irradiation using Vero-4DRT: A preliminary study
M. Sueoka (Japan), A. Sawada, Y. Ishihara, M. Yamada, H. Tanabe, Y. Okada, Y. Suzuki, K. Takayama, M. Kokubo, M. Hiraoka
- > Automatic and simultaneous KV imaging and VMAT delivery for prostate stereotactic treatment
P. Fenoglietto (France), L. Bedos, O. Riou, J. Molinier, N. Aillères, D. Azria

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- > Classification of radiotherapy lung patients by their characterized respiratory patterns
J. Cortes-Rodicio (Spain), G. Sanchez-Merino, R. Lope-Lope, T. Martín-González, M.A. García-Fidalgo
- > Does the delivery technique impact the effect of respiratory motion in stereotactic ablative body radiotherapy?
A. Dimitriadis (United Kingdom), M. Hussein, S. Jafari, K.J. Kirkby, A. Nisbet, C.H. Clark
- > An observatory study of organ motion in patients with cervical cancer using cinematic-magnetic resonance imaging
N. Jastaniyah (Canada), B. Murray, K. Wachowicz, A. Yahya, R. Pearcey
- > 2D/3D image registration for various gantry angles for online tumor motion tracking
E. Steiner (Austria), H. Furtado, C. Viehböck, W. Birkfellner, D. Georg, M. Stock
- > Effect of couch tracking upon volunteers
S. Lang (Switzerland), J. Zeimetz, G. Ochsner, M. Schmid-Daners, S. Klöck, O. Riesterer
- > Dosimetric impact of respiratory movements for dynamic IMRT breast irradiation with a SIB technique
P. Carrasco de Fez (Spain), N. Jornet, A. Latorre-Musoll, T. Eudaldo, A. Ruiz, M. Ribas
- > The use of a 3D surface based imaging system to assess intra-fraction motion for breast cancer patients
S. Wright (United Kingdom), Y.G.J. Lau, M. Naisbit, A. Needham, R.E.R. Artschan, J.R. Sykes
- > Should organs at risk respiratory induced motion be considered during tumor tracking in radiotherapy?
M. Gilles, N. Boussion, O. Pradier, D. Visvikis, H. Fayad (France)
- > 2D/3D registration for pre-treatment lung tumor motion analysis using CBCT for intra-fractional tracking
H. Furtado (Austria), E. Steiner, M. Stock, D. Georg, W. Birkfellner
- > Evaluation of methods for proton treatment planning in lung cancer patients
M. Sutto, D. Ravanelli (Italy), F. Fellin, M.L. Belli, G.M. Cattaneo, E. Scalco, G. Rizzo, M. Schwarz

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PHYSICS TRACK: MANAGEMENT OF INTERFRACTION CHANGES

- > IGRT of the Prostate – Evaluation of gold marker position migration during treatment course
S. Kuechler (Germany), N. Volegova-Neher, A.L. Grosu
- > CBCT-based volumetric and dosimetric variation evaluation of VMAT in the treatment of NPC patients
X. Jin (China), C. Xie
- > Comparison of three different immobilization devices for radiation therapy in the pelvic region
M. Djordjevic (Sweden), E. Sjöholm, L. Unosson, S. Norrgård, A. Carlsson, B. Sorcini
- > Frequency of replanning and its variability dependent on the modification of the replanning criteria in H&N IG-IMRT
E. Stoiber (Germany), M. Stoll, K. Giske, J. Debus, R. Bendl
- > Effect of large set-up errors on conventional and IMRT craniospinal irradiation
Y.K. Lee (Canada), A.T. Kim, A. Sahgal, A. Karotki
- > Robustness of prostate pelvic IMRT: comparison of target delineation and target motion uncertainties on CTV dose
L.B. Hysing (Norway), S. Thörnqvist, M. Thor, B. Heijmen, L.P. Muren, S.I. Helle
- > Automated detection of radiopaque fiducial markers for image registration in MRI-guided radiation therapy
P. Mercea (Germany), K. Giske, G. Grossmann, F. Sterzing, R. Bendl
- > Dosimetric implications of manual correction for automated deformable image registration in RT applications
K. Giske (Germany), M. Stoll, E.M. Stoiber, R. Bendl
- > Dose calculation on CBCT: A simple approach accounting for the dependency of grey values on cone beam scan parameters
N. Van Wieringen (The Netherlands), S. Silveira, C.A.J.M. Vugts, J. Visser, A.C. Houweling, A. Bel

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E-POSTERS

- > Volume model of interfractional movement of the uterus. Adequate margins in EBRT of cervical cancer
S. Danielsen (Norway), F. Correas Vidaurre, A.B.L. Marthinsen, M. Sundset, A.D. Wanderås
- > Geometrical and dosimetric interfractional variations and their correlation in head and neck IG-IMRT
M. Stoll (Germany), K. Giske, E.M. Stoiber, R. Bendl
- > Towards adaptive EBRT in cervix cancer: Robustness of a reduced margin strategy
L. Nyvang (Denmark), M.S. Assenholt, N.B. Kibsgaard Jensen, A. Vestergaard, J.C. Lindegaard, L. Fokdal, K. Tanderup
- > Residual positioning error following matching and remote treatment couch repositioning
E. Sande, N.I. Hoven, I.W. Ormberg, K. Eklund, T.P. Hellebust (Norway), S. Olberg
- > Analysis and comparison of setup correction shifts of compliant and non-compliant patients with the setup protocol
R. Bermúdez Luna (Spain), A. López Fernández, G. Martín Martín, C. Rodríguez Rodríguez
- > Cone-beam CT based position verification and correction improves the accuracy of IGRT for oesophageal cancer
P. Van Haaren (The Netherlands), A. Van Nunen, M. Van Boxtel, M. Van der Sangen
- > How much does robotic couch reduce the geometric errors? Scanning of tumor sites for more beneficial implementation
S. Chiesà (Italy), L. Placidi, L. Azario, G.C. Mattiucci, A. Damiani, A.R. Alitto, V. Frascino, F. Micciché, V. Valentini, M. Balducci
- > Delivered and planned doses for prostate SBRT with FFF beam: A radiobiology study by CBCT and deformable registration
G. Reggiori (Italy), L. Strigari, F. Alongi, G. Maggi, A. Gaudino, A. Stravato, S. Tomatis, P. Navarra, M. Scorsetti, P. Mancosu
- > The radiobiology of switching from a no action level to a daily imaging IGRT setup protocol
A. Carver (United Kingdom), P. Mayles, I. Syndikus, A. Baker, J. Selvaraj

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E-POSTERS

- > Setup correction in breast radiotherapy with lymph node irradiation is radiobiologically significant
S. Pettillion (Belgium), K. Verhoeven, C. Weltens, F. Van den Heuvel
- > Evaluation of inter-fractional prostate motion using 3D ultrasound image-guided radiotherapy
M. Martyn (Ireland Republic of), M. Moore, C. Kleefeld, M. Foley
- > Reduced fixation with optical monitoring for palliative whole brain radiotherapy treatment
M. Kügele (Sweden), C. Thornberg, E. Kjellén, C.F. Nordström, S. Engelholm
- > Patient position verification in MRI-based external RTP of the pelvic region
J. Korhonen (Finland), M. Kapanen, J.J. Sonke, E. Salli, J. Keyriläinen, T. Seppälä, M. Tenhunen

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PHYSICS TRACK: IMAGING: FOCUS ON CLINICAL APPLICATIONS

- > Warping methods for Tomotherapy and IGRT: Challenge and predictive analysis in clinical practice
G. Gottardi (Italy), G. Guidi, N. Maffei, C. Vecchi, M.G. Mistretta, G. Baldazzi, T. Costi
- > Segmentation of liver metastases lesion by PET image
H. Kim (Korea Republic of), S. Pack, M.S. Kim, H. Jung, H.J. Yoo, C.Y. Yi, Y.H. Ji, K.B. Kim
- > Monitoring changes in lung glucose metabolism for patients with lung cancer receiving thoracic irradiation
A. Abravan (Norway), I.S. Knudtsen, H. Eide, O.T. Brustugun, A. Helland, E. Malinen
- > Phantom to patient registration applied to dosimetry
J. Salido-Tercero, G. Bueno (Spain), O. Deniz
- > Biological imaging for focal brachytherapy for prostate cancer
A. Haworth (Australia), H. Reynolds, A. Zhang, D. Rawlinson, R. Chakravorty, C. Ong, N. Hardcastle, G. Liney, M. Ebert, S. Williams

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- > Verification of different depth correction methods used in determination of GFR by Gates method
Z. Azma (Iran Islamic Republic of), A.R. Kamali Asl, A. Bitarafan-Rajabi, M.R. Aghamiri, M.A. Mousavizadeh, M. Bakhshandeh
- > Multimodal image registration to identify the dominant intraprostatic lesion in radiotherapy - AIRC grant IG 13218
D. Ciardo (Italy), B.A. Jereczek-Fossa, D. Zerini, G. Petralia, R. Cambria, E. Rondi, F. Cattani, C. Fodor, G. Baroni, R. Orecchia
- > Impact of the CT scanning modalities on the delineation of parotid glands and doses contained on it
A. Jodda (Poland), T. Piotrowski, A. Ryczkowski, M. Adamczyk, M. Skorska, B. Bak, J. Kazmierska, W. Bandyk, J. Malicki
- > Characterization of malignant lesions with DWI, using 18FDG-PET/CT as standard: Feasibility study
M. Betti (Italy), C. Biagini, C. Biagini, L.C. Orlandini, L. Natale
- > 18FDG-PET/CT evaluation of non-small cell lung cancer patients receiving radiotherapy and erlotinib
I. Skjei Knudtsen (Norway), H. Eide, A. Løndalen, T. Bogsrud, O.T. Brustugun, A. Helland, E. Malinen
- > Patient-specific CT value correction for CBCT image based on region segmentation method for online replanning
H. Li (China), D. Li, Y. Liang, M. Liu, M. Li, J. Zhu, J. Chen, Y. Yin, B. Li
- > Sequential contrast-enhanced 4DCT and 3DCT for radiotherapy planning in lower-third oesophageal cancer
S.M. Dawoud (United Kingdom), D.W. Smith, N. Roberts, D.J. Sebag-Montefiore, A.M. Crellin, T. Crosby, G. Radhakrishna
- > A new validation method of thoracic CT to CT deformable image registration
M.S. Nielsen (Denmark), L.R. Ostergaard, P.M. Nyström, J. Carl
- > A new fully automated lung segmentation method for lung cancer radiation treatment planning
E. Ozsavas (Turkey), Z. Telatar, B. Dirican, O. Sager, M. Beyzadeoglu
- > Daily on board CT in course of H&N radiotherapy. Comparison of manual and automatically propagated parotid contours
L. Spiazzi (Italy), M. Buglione, S. Tonoli, R. Avitabile, A. Bandera, L. Triggiani, R. Cavagnini, S.M. Magrini

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- > Evaluation of internal target volumes between 4D CT, Slow CT and CBCT according to breath patterns
S. Lee (Korea Republic of), S. Choi, C. Min, S. Park, H. Jung, C. Yi, H. Yoo, M. Kim, Y. Ji, K. Kim
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- > Minimally interactive OAR and GTV segmentation in 4D FDG-18 PET/CT NSCLC: First clinical experience
L. Dolz (France), H. Kirisli, M. Jurisic, T. Fechter, U. Christ, S. Adebahr, M. Mix, W. Birkfellner, L. Massotier, U. Nestle
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- > A pilot study examining deformable imaging in deriving a PET-based PTV for oesophageal cancer radiotherapy planning
G. Ward (United Kingdom), S.M. Ramasamy, J. Sykes, F. Chowdhury, A. Scarsbrook, K. Harris, P. Hatfield, A. Crellin, D. Sebag-Montefiore, G. Radhakrishna
EP-1706
- > Clinical evaluation of surface-imaging system for patient positioning during breast cancer radiotherapy
H. Karle (Germany), C. Tiogueu, S. Toujami, S. Grossmann, H. Schmidberger
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- > Phase correlation for the 3D registration of CT image volumes for dose monitoring of target volumes and organs at risk
D. Foley (Ireland Republic of), P. McBride, B. McClean
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- > Differences in dose accumulation with different deformable image registration algorithms for H&N IGRT
N. Dogan (USA), F. Sleeman, D. Asher, F. Fatyga, M. Schutzer, S. Song
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- > Clinical validation of Smart Probabilistic Image Contouring Engine (SPICE) for prostate and head & neck cancer
S.C. Lee (United Kingdom), K. Bradley, K. Potterton, N.S. Robinson
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- > Fast visual quality inspection of 4D PET/CT contouring of manual and semi-automatic contours
M. Schlachter (Austria), T. Fechter, K. Bühler, U. Nestle
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- > An assessment of three diffusion weighted imaging sequences for prostate radiotherapy planning
L. Holloway (Australia), T.M. Al Harthi, E. Juresic, L. Cassapi, M. Sidhom, G. Liney
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E-POSTERS

- > Relaxation parameter estimation and comparison of NLS and LLS methods in the cervix
C. Mariager (Denmark), K. Tanderup, J. Kallehaug
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- > Identification of regions at risk for radiotherapy planning based on fMRI data
N. Tuovinen (Italy), A. Hamamci, F. De Pasquale, U. Sabatini
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- > Accurate detection and tracking of ROIs for image-guided fractionated radiotherapy
G. Bueno (Spain), O. Deniz, J. Salido
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- > Predicting a pseudo-CT scan from T1 weighted MR images using patches – towards MRI-only based radiotherapy
D. Andreassen (Denmark), K. Van Leemput, J.L. Andersen, R.H. Hansen, J.M. Edmund
EP-1716
- > MRI of individual axillary and periclavicular lymph nodes for MR-guided regional radiotherapy
T.C.F. Van Heijst (The Netherlands), H.J.G.D. Van den Bongard, J.J.W. Lagendijk, B. Van Asselen, M.E.P. Philippens
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- > Voxel-based comparison of dynamic contrast-enhanced MRI and FDG-PET in head-and-neck cancer
P.J. Van Houdt (The Netherlands), B. Kunnen, O. Hamming-Vrieze, J.B. Van de Kamer, U.A. Van der Heide
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- > MRI-based contour propagation for adaptive cervical cancer radiotherapy: The added value of dosimetric analysis
A.M. Honingh (The Netherlands), J.C.J. De Boer, A.A.C. De Leeuw, I.M. Jürgenliemk-Schulz
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PHYSICS TRACK: IMAGING: FOCUS ON QA AND TECHNICAL ASPECTS

- > Accuracy of remote translations of the couch during IGRT-guided radiotherapy
M. Pozo (Spain), J.F. Calvo Ortega, S. Moragues Femenia, J. Casals Farran
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- > Inverse heat source problem for deep tumor imaging
Y. Mateev (Bulgaria), I. Marinova, A. Chakarova, I. Yatchev
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- > Field-of-view shift reduces maximum pitch value in helical 4D-CT scans
G. Hilgers (The Netherlands), T. Nuver, A. Minken
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- > CBCT-guided Winston Lutz test
J. Casals Farran (Spain), J.F. Calvo Ortega, M. Pozo Masso, S. Moragues Femenia
EP-1723
- > Fast scan and low dose megavoltage CT reconstruction via a compressed censing with prior image constraints in IGRT
H. Lee (Korea Republic of), J. Yoon, J. Lee, K. Park, Y. Chung, W. Choi
EP-1724
- > Evolution of QA program for dynamic MLC in volumetric modulated arc therapy based on EPID portal dosimetry
R. Tortosa Oliver (Spain), N. Chinillach Ferrando, P. Soler Catalan, J.C. Morales Marco, F. Andreu Martinez
EP-1725
- > Application of a CT metal artifact reduction method using monoenergetic imaging to RT planning
E. Bär (Germany), S. Kuchenbecker, F. Sterzing, A. Schwahofer
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- > QA procedures using digital camera can improve accuracy of cranial stereotactic radio-surgery in patient to 0.5 mm
H. Petermann (Switzerland), G. Kohler
EP-1727
- > Reference dosimetry for diagnostic CT examination using radiochromic films
N. Tomic (Canada), N. Sharoubim, F. DeBlois, J. Seuntjens, S. Devic
EP-1728
- > Validation and implementation of quantitative DCE-MRI imaging for radiation oncology
H.M. Van Zijp (The Netherlands), H. Griffioen, M.E.P. Philippens, C.A.T. Van den Berg, G. Van Tilborg, S.P.G. Franken, W.J.M. De Kruijff
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- > Comparison of the accuracy of different treatment couch systems
A. Stüssi (Switzerland), S. Lang, S. Klöck
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- > Advanced IGRT and plan adaptation with TrueBeam 2.0, PerfectPitch 6 DOF couch and ARIA 13
A.J. Reilly (United Kingdom), A. Baker, C. Baker, S. Temple
EP-1731
- > Estimation of total MRI-CT image registration errors for the pelvis
J. Sjöberg (Sweden), A. Carlberg, J. Nilsson
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- > Quality assurance of four-dimensional computed tomography for stereotactic ablative radiotherapy
W.H. Nailon (United Kingdom), J. Puxeu Vaque, D.B. McLaren, S.C. Erridge
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E-POSTERS

- > Validation of a deformable registration image of a commercial treated planning system
R. García-Mollá (Spain), N. Marco-Blancas, J. Bonaque, L. Viduera
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- > Hounsfield unit variation with changing acquisition parameters for Elekta cone-beam computed tomography
C. Thomas (United Kingdom), G. Ntents, A. Greener
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- > Commissioning experience for six degree of freedom robotic couch accuracy in IGRT system
L. Placidi (Italy), F. Greco, S. Chiesa, M. Balducci, E. Placidi, G.C. Mattiucci, V. Valentini, A. Permattei, L. Azario
EP-1736
- > Geometric accuracy of 4DCT scans acquired using the wall and couch mounted variations of the Varian RPM camera system
B. O'Connell (United Kingdom), C. McGarry
EP-1737
- > Streamlined clinical CBCT protocols: Reduced dose and variation and maintained image quality
M. Devillers (Belgium), F. Lakosi, L. Janvary, S. Ben Mustapha, E. Lenaerts, P. Coucke, A. Gulyban
EP-1738
- > Analysis of a stereotactic frameless radiosurgery technique for targeting arteriovenous malformation
F. Steenbeke (Belgium), T. Gevaert, K. Poels, D. Verellen, J. D'Haens, F. Van Tussenbroek, M. De Ridder
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- > The impact of the CT scanner calibration curve on the calculation of dose distribution
B. Pawalowski (Poland), S. Adamczyk, M. Adamczyk
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- > Impact of anti-scatter grid design image quality of CBCT scans for head and neck cancer imaging
U. Stankovic (The Netherlands), M. Van Herk, L.S. Ploeger, S. Van Kranen, J.J. Sonke
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- > Efficient Monte Carlo calculations of CBCT scatter using egs_cbct
E. Mainegra-Hing (Canada), R.S. Thing
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- > Compilation of a database for illustration and automated detection of 4DCT motion artifacts
E. Wulfhekel (Germany), C. Grohmann, T. Gauer, R. Werner (Germany)
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- > Personalized organ dose assessment of cone-beam CT imaging for image-guided thoracic radiotherapy
Y. Zhang (China), H. Wu, Z. Chen, J. Knisely, R. Nath, Z. Feng, S. Bao, J. Deng
- > Patient positioning by 3D ultrasound: quantification of inherent technical limitations
S. Hieber (Germany), M. Li, M. Reiner, C. Belka, H. Ballhausen
- > Accuracy of a deformable image registration software in shape and volume recovery of phantom images
S. Pallotta (Italy), G. Simontacchi, L. Livi, M. Bucciolini

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PHYSICS TRACK: IMPLEMENTATION OF TECHNOLOGY, TECHNIQUES, CLINICAL PROTOCOLS OR TRIALS

- > Development of quality audits for advanced technology in radiotherapy dose delivery
J. Izewska (Austria), G. Azangwe, P. Grochowska, A. Meghziene
- > Dosimetric analysis of supine lateral total body irradiation technique
S. Inel (Turkey), T. Atakul, A. Sar, A. Hicsonmez, B. Dirican, S. Cakir Gökce
- > A pilot project with multiple IAEA studies exploring a Big Clinical Data strategy for research and to improve quality
G. Jones (Canada), T. Menon, E. Rosenblatt, E. Zubizarreta, E. Fidarova, Y. Pynda
- > Introducing IMRT / VMAT interdepartmental photon audit
A. Mazurek (United Kingdom), R. Jarvis
- > UK audit of intraoperative radiotherapy dosimetry
D.J. Eaton (United Kingdom), B. Earner, P. Faulkner, N. Dancer
- > RT.net - interoperable data exchange in radiotherapy
M. Memelink (Austria), P. Steinger, H. Deutschmann Heinz, F. Sedlmayer
- > A unique PDF-form/e-form manager platform to improve data quantity and quality in IAEA randomized trials
T. Menon (Canada), Y. Pynda, E. Rosenblatt, E. Zubizarreta, E. Fidarova, G. Jones

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- > Preventing human intervention errors in voluntary breath-hold radiation treatment
W.J.M. De Kruijff (The Netherlands), P. Van der Heijden, B. Van Erp, J. Van den Boom, V. Vlaun
- > Stereotactic ablative body radiotherapy in the UK: National implementation and current practices. Are we there yet?
G. Distefano (United Kingdom), A. Baker, C.H. Clark, A.J.D. Scott, G.J. Webster
- > The pilot study for dosimetry audits of high energy electron beams using TLD, OSLD and RPLD
P. Grochowska (Austria), J.F. Aguirre, G. Azangwe, J. Ströbele, J. Izewska
- > Small field dosimetry using three solid state dosimeters for advanced dose audit in radiotherapy
H.M. Mizuno (Austria), P.G. Grochowska, G.A. Azangwe, B.D. Deneva, W.L. Lechner, J.I. Izewska
- > Particle therapy: ReCompare—individual patient selection at non-particle radiation institutions
A. Lühr (Germany), S. Löck, K. Roth, U. Just, M. Krause, M. Baumann, W. Enghardt
- > Integration of DICOM images in a Geant4 application: A support for intra-operative radiotherapy clinical research
G. Russo (Italy), I. Fazio, C. Casarino, S. Guatelli, G. Candiano, G. La Rocca, R. Barbera, G. Borasi, C. Messa, M.C. Gilardi
- > First results with a new phantom for quality assurance in deep hyperthermia treatment systems
D. Marder (Switzerland), N. Brändli
- > Dosimetric and clinical evaluation of a novel craniospinal irradiation technique
B. Zeeb, D. Thorwarth, G. Christ, O. Dohm (Germany)
- > Optimization of bladder hyperthermia treatment
G. Schooneveldt (The Netherlands), E.D. Geijssen, P.J. Zum Vörde sive Vöding, E.R. Cordeiro, M.C.C.M. Hulshof, T.M. De Reijke, J. Crezee
- > Audit of PTV margins for lung SABR
G. Webster (United Kingdom), J. Paine, Q. Ghafoor

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E-POSTERS

- > A failure mode and effects analysis for implementation new technology - Cyberknife
A. Skrobala, S. Adamczyk (Poland)
- > Big data or good data? Improving the quality of big data by open source clinical research protocols
C. Oberije (The Netherlands), E. Roelofs, G. Nalbantov, A. Dekker, W. Wiessler, M. Eble, W. Dries, L. Janvary, P. Bulens, P. Lambin
- > Survey of Intensity Modulated Radiotherapy practice in the Republic of Ireland 2013, planning and quality assurance
B. O'Sullivan (Ireland Republic of), E. Loughman
- > A retrospective review of organ at risk outlining for the IDEAL-CRT trial and its effect on dose escalation
E. Parsons (United Kingdom), Y. Tsang, L. Miles, P. Mayles, L. Hughes, D. Landau
- > De-ESCaLaTE HPV radiotherapy quality assurance: Improving plan quality within a UK HNC trial
H. Baines (United Kingdom), J. Henderson, J. Conibear, C. Nutting
- > Collision-free planning of trajectories for conventional radiotherapy
M. Mehrwald (Austria), P. Steininger, F. Sedlmayer, H. Deutschmann
- > Novel applicator for RF hyperthermia treatment of soft-tissue sarcomas using improved excitation control
M.H. Capstick (Switzerland), M.C. Gosselin, E. Neufeld, N. Kuster
- > Quantifying the trigger level of the vacuum surveillance system of Gamma Knife eXtend and the impact on dose delivery
B. Reiner (United Kingdom), P. Bownes, P. Hatfield, D.I. Thwaites
- > Multi-institutional comparison of dosimetric parameters: Results from a Danish dosimetry protocol
A.R. Beierholm (Denmark), C.F. Behrens, P. Sibolt, H.S. Rønde, S.B.N. Biancardo, J.B. Thomsen, L. Nyvang, H.L. Riis, J. Helt-Hansen, C.E. Andersen
- > Evaluating the use of bladder volume measurement ultrasound device in radiotherapy
S. Wallace (United Kingdom), M. Hickman, A. Zarkar, G. Webster

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- > The Czech multicenter dosimetric and treatment planning intercomparison of IMRT with a pelvic phantom
L. Koniarova (Czech Republic), I. Horakova, V. Dufek
- > Assessment of organs at risk contour variability within a UK multicentre lung radiotherapy trial (Isotoxic IMRT)
E. Miles (United Kingdom), Y. Tsang, A. Carver, C. Harris, C. Rowbottom, C. Faivre-Finn
- > Commissioning results of an automated treatment planning and delivery verification system
C. Nelson (USA), B. Mason, C. Robinson, S. Kirsner
- > 3D printing of tissue equivalent boluses and molds for external beam radiotherapy
N.A. Holtzer (The Netherlands), J. Galis, M.I. Paalman, S. Heukelom
- > Project for the implementation of a risk assessment methodology in the Spanish Radiotherapy Services
J.M. Delgado, C. Prieto, M.L. Ramirez (Spain), A. Pérez, J. Vilanova, C. Sanchez, C. Garcia Alvarez, A. Hervas
- > An RTQA program in a multicenter prostate IMRT trial: A benchmark and an individual case review
S. Ishikura (Japan), K. Nakamura, T. Mizowaki, N. Shikama, K. Nihei, Y. Kagami
- > FAST-Planning: Framework for Automatic Segmentation and Treatment Planning
R. De Graaf (The Netherlands), R. Harmsen, A.L. Wolf, A. Olszewska, G. Retèl, C. Van Vliet-Vroegindewij, E.M.F. Damen
- > DICOM export from Hi-Art TomoTherapy for the VoxTox study: A data-driven software solution
M. Romanchikova (United Kingdom), N.G. Burnet, S.J. Thomas
- > Performance of Double-Decker compact proton therapy system
T. Morita (Japan), T. Tachikawa
- > First results using a local reporting and learning system to analyze events in the radiotherapy process
M.J. Béjar (Spain), A. Hervás, S. Esteve, P. Rodríguez, A. Fonseca, B. García, B. Capuz, J. Ordóñez, R. Colmenares, A. Ramos

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- > Clinical impact of IMPORT HIGH trial (CRUK/06/003) on breast radiotherapy in the United Kingdom
Y. Tsang (United Kingdom), L. Ciurlionis, A. Kirby, K. Venables, J. Yarnold, C. Coles
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- > First experiences with a central DICOM based radiotherapy plan database for research collaboration
S. Krogh (Denmark), J. Westberg, I. Vogelius, C. Brink
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- > TPS performance audit with a heterogeneous phantom
K. Chelminski (Poland), W. Bulski, J. Rostkowska
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- > Effect of Organ motion on target dose in SBRT using ArcCHECK to compare FFF and flattened beams
M. Shingler (United Kingdom), M. Saberi
EP-1787
- > Automated delivery and quality assurance of modulated electron radiation therapy for breast
T. Connell (Canada), P. Papaconstadopoulos, A. Alexander, M. Serban, S. Devic, J. Seuntjens
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- > Multi-centre assessment of a 4D radiotherapy quality assurance, verification and audit phantom
S. Corde (Australia), M. Kafrouni, S. Downes, D.I. Thwaites
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- > A method for dosimetry audit of IMRT and VMAT
E. Adolfsson (Sweden), H. Gustafsson, E. Lund, S. Olsson, A. Carlsson Tedgren
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PHYSICS TRACK: RADIATION PROTECTION

- > The use of failure mode and effects analysis for risk assessment in Cyberknife stereotactic body radiation therapy.
M.C. Cantone, E. De Martin, M.L. Fumagalli, T. Malatesta, P. Mancosu (Italy), A.S. Martinotti, I. Redaelli, I. Veronese, C. Vite
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- > Comparison of the organ equivalent dose from the scattered radiation of acoustic schwannoma
D. Kim (Korea Republic of), W. Chung, S. Bae, S. Park, H. Lee, J. Sung, M. Yoon
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- > Organ doses and cancer risk from radiation prophylaxis for heterotopic ossification of the elbow: A Monte Carlo study
M. Mazonakis (Greece), T. Berris, C. Varveris, J. Damilakis
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- > The out-of-field dose measurement of neutron and photon during radiotherapy with 20MV
M. Kruszyna (Poland), J. Malicki, S. Adamczyk, A. Kowalik, W. Jackowski
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- > 3D collision map creation using patient-specific collision detection simulator between treatment unit and patient
A. Sawada (Japan), A. Kohnoike, M. Moriyama, Y. Ishihara, T. Shiinoki, Y. Miyabe, Y. Suzuki, T. Mizowaki, M. Kokubo, M. Hiraoka
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- > Evaluation of peripheral neutron equivalent dose and second cancer risk in radiotherapy patients
L. Irazola (Spain), F. Sanchez-Doblado, B. Sanchez-Nieto, M.R. Exposito, G. Mazzotti, M. Morelli, M. Lorenzoli, R. Bedogni, A. Pola, J.A. Terron
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- > Radiation therapy risk profile illustrated by new categorization method for near miss and incident reports.
H. Spejlborg (Denmark), H.M. Nielsen
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- > Online neutron fluence measurements in phantom for second cancer risk estimation in radiotherapy
F. Sanchez-Doblado (Spain), L. Irazola, M. Lorenzoli Pola, R. Bedogni Gentile, J.I. Lagares, J.L. Muñiz Sansaloni, M.V. Introiini Bortot, B. Sanchez-Nieto, M.R. Exposito, J.A. Terron
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PHYSICS TRACK: PROFESSIONAL AND EDUCATIONAL ISSUES

RESERVED

- > Dynamic provision of R&V database information in real-time via SQL, Dicom and HL7
F. Röhrner (Germany)
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- > Determining an imaging literacy curriculum for radiation oncologists: An international Delphi study
M. Giuliani (Canada), C. Gillan, R. Milne, M. Uchino, B.A. Millar, P. Catton
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- > A novel web-based delineation and scoring system for teaching target volume delineation
M. Van Herk (The Netherlands), J. Duppen, L. Massoptier, N. Burnet
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RADIOBIOLOGY TRACK: MOLECULAR TARGETED AGENTS AND RADIOTHERAPY

- > Head and neck cancer cell lines with an EMT like phenotype show an enhanced resistance to treatment
K. Roberg (Sweden), A.C. Johansson, L. La Fleur, S. Melissaridou
- > Comparative analysis of radiation-induced changes in gene expression and migration potential of HNSCC and PC cells
K. Mäbert (Germany), I. Kurth, L. Hein, C. Peitzsch, M. Cojoc, F. Trautmann, V. Lukiyanchuk, A. Dubrovka
- > In vitro impact of lovastatin on various human cell lines with additional irradiation and targeted therapies
P. Migliorini (France), M. Rave-Fränk, H.A. Wolff, S. Commet, L. Corcos, O. Pradier

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RADIOBIOLOGY TRACK: TUMOUR MICROENVIRONMENT, HYPOXIA AND ANGIOGENESIS

- > Functionalized nano-crystalline diamond surfaces for the generation of tumour spheroids of defined size
O. Eiter (Austria), T. Schmiedinger, D. Hekl, B. Rezek, A. Kromka, P. Lukas, T. Seppi
- > Characterization of hypoxia in three rat prostate tumor sublines, using dynamic F-MISO PET and histology
P. Mena Romano (Germany), C. Cheng, C. Glowa, P. Peschke, L. Pan, U. Haberkorn, A. Dimitrakopoulou-Strauss, C. Karger
- > Imaging hypoxia with the PET-tracer F-18-fluoromisonidazole (F-MISO) -First experience
L. Thomas (Germany), C. Lapa, M. Guckenberger, R.A. Bundschuh
- > Plasminogen activator inhibitor-1 is associated with key oncoproteins in cervical carcinoma tumors
M. Lloret (Spain), L.A. Henríquez-Hernández, A. Valenciano, B. Clavo, B. Pinar, A. Rey, M. Federico, J. Blanco, L. García-Cabrera, P.C. Lara

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- > Potential of iron oxide nanoparticles as radiosensitisers
T. Schmiedinger (Austria), O. Eiter, D. Hekl, R. Borny, H. Talasz, H. Lindner, P. Lukas, T. Seppi

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RADIOBIOLOGY TRACK: NORMAL TISSUE EFFECTS: PATHOGENESIS AND TREATMENT

- > Zebrafish embryo model for testing potential radioprotective agent
E.R. Szabo (Hungary), I. Plangár, I. Mán, T. Tokés, Z. Szabó, G. Fekete, K. Hideghéty
- > Quercetin protects radiation induced oxidative DNA damage and apoptosis in kidney and bladder tissues of rats
H. Ozyurt, O. Cevik, Z. Ozgen, A.S. Ozden (Turkey), S. Cadirci, F. Ercan, M.Z. Gören, G. Sener
- > Combined internal/external radiation exposure induces late functional injury in bone marrow stem cell compartment
J.P. Williams (USA), E. Hernady, A. Koniski, P. Kingsley, J.N. Finkelstein, J. Palis, L. Calvi
- > Amifostine alleviates radiation-induced small-bowel damage through 14-3-3s-mediated nuclear p53 accumulation
E. Huang (Taiwan), F. Wang, Y. Chen, C. Wang, K.D. Yang
- > Study of radiation-induced damage and remodeling of extracellular matrix of rectum and bladder by optical methods
M. Kochueva, N. Ignatjeva, O. Zakharkina, E. Sergeeva, V. Kamensky, S. Kuznetsov, E. Kiseleva, A. Maslennikova (Russian Federation)
- > May play a phosphatidylcholine derivative radio-neuroprotective role in focal brain irradiation of rats?
I. Plangár (Hungary), E.R. Szabó, T. Tokés, G. Fekete, K. Hideghéty
- > Investigation of cholinergic system in radiation induced damages of rat liver and ileum
H. Ozyurt (Turkey), S.A. Ozden, O. Cevik, Z. Ozden, S. Cadirci, F. Ercan, G. Sener, M.Z. Gören
- > Radiotherapy-related changes in serum proteome patterns of head and neck cancer patients
P. Widlak (Poland), M. Pietrowska, J. Polanska, K. Jelonek, I. Dominczyk, T. Rutkowski, A. Wygoda, K. Skladowski

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- > Longitudinal evaluation of radiation induced lung fibrosis in mice using a dedicated small animal micro-irradiator
P.V. Granton (The Netherlands), L. Dubois, W. Van Elmpt, S. Van Hoof, N. Liewwes, D. De Ruysscher, F. Verhaegen

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RADIOBIOLOGY TRACK: PREDICTIVE ASSAYS/PROGNOSTIC FACTORS

- > REQUITE: Validating predictive models and biomarkers of RT toxicity to reduce side-effects and improve QOL
D. De Ruysscher (Belgium), C. Talbot, D. Azria, J. Chang-Claude, A. Dunning, S. Gutiérrez Enríquez, A. Vega, L. Lozza, L. Veldeman, C.M. West
- > RAD17 and DNA replication as a potential target for improving radiotherapy in prostate cancer
C. Gani (Germany), L. Basler, D. Ostafichuk, G. Zafarana, R.G. Bristow
- > Prognostic and predictive value of serial plasma Osteopontin levels in the radiotherapy of NSCLC
C. Ostheimer (Germany), M. Bache, A. Güttler, D. Vordermark
- > The Radiogenomics Consortium (RGC)
C.M.L. West (United Kingdom), B.S. Rosenstein, S.M. Bentzen, G.C. Barnett, A. Dunning, S.L. Kerns, J. Chang-Claude, J.O. Deasy, C.N. Andreassen
- > Proteome-based identification of biomarkers to predict radiation resistance in cancer patients
S. Skvortsov, P. Eichberger, I. Skvortsova (Austria), P. Lukas
- > Quality of life of prostate cancer patients is influenced by single nucleotide polymorphisms in DNA repair genes
L. Henríquez Hernández (Spain), A. Riveros-Pérez, A. Valenciano, J.I. Rodríguez-Melcón, M. Lloret, B. Pinar, G. González, P.C. Lara
- > MicroRNAs as predictors of local control in breast cancer
F. Zehentmayer (Austria), C. Hauser-Kronberger, G. Fastner, F. Hlubek, C. Schuster, P. Luger, R. Reitsamer, T.H. Fischer, H. Deutschmann, F. Sedlmayer

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- > Therapeutic advantage of chemoradiation assessed using control rates predicted by Biosuite and clinical results
J. Maguire (United Kingdom), J. Uzan
- > Radio-induced apoptosis of peripheral blood CD8+ T-lymphocytes predict the survival of cervical carcinoma
R. Ordonez Marmolejo (Spain), L.A. Henríquez-Hernández, A. Valenciano, M. Federico, M. Lloret, B. Pinar, C. Rodríguez-Gallego, A. Riveros-Pérez, L. García-Cabrera, P.C. Lara

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RADIOBIOLOGY TRACK: OTHERS

- > Local irradiation modulates pharmacokinetics of 5-Fluorouracil in plasma but not in lymphatic fluid
C. Hsieh (Taiwan), M. Hou, L. Wang, H. Tai, T. Tsai, Y. Chen
- > Impact of different alpha/beta values in biological based DVH
L. Alastuey (Spain), J. Pardo, A. Guerrero, L. Bodi, E. Jimenez, A. Ariño, C. Chiaramello, S. Montemuiño, N.E.U.S. Aymar
- > Areca nut contributes to malignant phenotype through promoting the conversion of cancer stem cell
A. Cheng (Taiwan), Y.J. Li, J.T. Chang
- > Evaluation of urinary GGT as marker of early cisplatin induced AKI in cancer patients treated by chemoradiation
M.S. Athiyamaan (India), V. Sleenaa Ummer
- > Heterozygous germline mutation in NBS1 among Non-BRCA1/2 Korean patients with high-risk breast cancer
H. Kim (Korea Republic of), D.Y. Cho, D.H. Choi, W. Park, S.J. Huh, M.H. Lee, S.H. Ahn, B.H. Son, S.W. Kim
- > Effect of PsA derivatives on DNMT inhibition and radiosensitization in U373MG glioblastoma cell line
H. Kim (Korea Republic of), E. Ma, B. Shin, J. Kim, D. Park, I. Kim
- > Correlation between BED and local control of brain metastases post stereotactic radiotherapy
H. Benghiat (United Kingdom), M. Cook, P. Nightingale, P. Sanghera, A. Hartley

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- > The effect of abortive division as a repopulation mechanism on head and neck cancer radiotherapy
L.G. Marcu (Romania)
- > Radiation-induced modulation in the distribution of lymphocytes in breast cancer patients
E.K. Sage (Germany), M. Sedelmayr, M. Gehrman, C. Bayer, D. Schilling, M.N. Duma, T.E. Schmid, G. Multhoff, H. Geinitz
- > Radiation-protective properties of Nigella sativa oil and Thymoquinone
A. Kuzhan, A. Ahlatci (Turkey), S. Taysi, O.C. Demirtas, H.E. Alkis, M. Tarakcioglu, A. Demirci, D. Caglayan, E. Saricicek, K. Cinar
- > Reduced side effects by proton microchannel irradiation - study in a human skin mode
T.E. Schmid (Germany), S. Girst, C. Greubel, C. Siebenwirth, J. Reindl, G. Dollinger, J.J. Wilkens, G. Multhoff
- > Application of timepix for autoradiography imaging in targeted alpha therapy
R. AL Darwish (Australia), E. Bezak, A. Staudacher, M. Brown
- > BK K⁺ channels regulate migration of irradiated glioblastoma cells by modifying the Ca²⁺ signaling
D. Klumpp (Germany), B. Stegen, M. Misovic, L. Butz, S.N. Reichel, D. Zips, P. Ruth, S.M. Huber
- > A novel radiosensitizer, monogalactosyl diacylglycerol, enhanced the cytotoxic effects for the pancreatic cancer
H. Akasaka (Japan), R. Sasaki, I. Takayama, M. Nakahana, N.S. Sulaiman, D. Miyawaki, K. Yoshida, Y. Ejima, H. Uezono, Y. Mizushina
- > Ionizing radiation-induced glioblastoma cell migration in vivo
L. Butz (Germany), B. Stegen, D. Zips, P. Ruth, S.M. Huber

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RTT TRACK: PATIENT PREPARATION, PATIENT IMMOBILISATION AND SUPPORT AIDS

- > Setup protocol and procedure for radiotherapy of pelvic region using 6 point fixation mask
V.M. Manestar (Croatia), V.K. Karadza

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- > An investigation into the use of a drinking protocol to stabilise bladder volume in cervical radiotherapy
L. Davidson (United Kingdom), S. Chauhan, M. Bewley, S. Davidson, C. Choudhury, J. Stratford
- > Clinical implementation of stereotactic ablative radiotherapy (SABR) for lung early stage NSCLC
D. Routsis (United Kingdom), J. Dean, S. Archer, C. Ferriera
- > A retrospective review of a rectal preparation protocol in prostate cancer patients
S. Gillen (Ireland Republic of), L. Mullaney
- > Pelvic rotation for rectal and anal cancer patients: Revisiting a local pelvic fixation 2 years after introduction
M. Berg (Denmark), S.P. McIlroy, M.D. Lund, L. Musted

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RTT TRACK: TREATMENT PLANNING AND DOSE CALCULATION

- > Comparative plan analysis of static field IMRT and VMAT for hippocampus sparing whole brain radiation therapy
D. Stewart (Australia), J. Sim, L. Hau, W. Wong, R. Martin
- > Craniospinal radiotherapy with VMAT
A. Hoës (The Netherlands), M. Van Roessel, S. Hol, M. Essers
- > Is a dose volume histogram necessary to assess ipsilateral lung dose for patients receiving breast radiotherapy?
N. Rivington (United Kingdom)
- > Calculus of reirradiation in in-field metastatic recurrences of spinal cord
M. Sánchez Belda (Spain), E. Arregui López, I. Trueba Garayo
- > The 3D-CRT plan is not far beyond the IMRT concerning cochlear sparing in medulloblastoma posterior fossa boosting
I. Saad El-Din, H. Abd El Aal, W. Makaan, K. Mashhour, D. El Beih, W. Hashem (Egypt)
- > A dosimetric comparison between 3D conformal radiotherapy and IMRT for glioblastoma multiforme
H. Ging (Ireland Republic of), M. Leech

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- > The effect of partially used high energy photon on intensity-modulated radiation therapy plan for H & N cancer
C. Nam Joon (Korea Republic of), S. Jin Yong, W. Hui Su, H. Joo Wan, C. Ji Hun, P. Jin Hong
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- > Implications for tumor coverage due to the accuracy of dose calculation algorithms for 3DCRT lung radiotherapy
D. Braga (Portugal), F. Ribeiro, L. Carita, M. Zarza-Moreno, M. Roldão
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- > Robust treatment planning of active scanned proton therapy in prostate cancer
S. Park (Korea Republic of), J. Kim, J. Kim, W. Park, S. Ju, Y. Han, D. Choi
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- > Field-in-Field technique for breast cancer radiotherapy: dosimetric advantages and practical problems
A. Pascucci (Italy), F. Cellini, M. Melli, S.C. Mastrolemba Barnà, F. Paradiso, M. Fiore, S. Ramella, L.E. Trodella, A. Iurato, L. Trodella
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- > An investigation of the dosimetric impact of population-based set up errors in pelvic radiation therapy
S. Dangol (Ireland Republic of), M. Leech
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- > Clinical decision making during treatment planning for lung cancer: A multi-criteria optimization approach
Z. Kesteren van (The Netherlands), R. Westendorp, E.J.A. Vonk, E.H.A. Loeters, A.W.H. Minken
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- > Comparing 3D versus standard planning techniques in the irradiation of the supraclavicular fossa in breast cases
P.P.E. Pang (Singapore), L.H. Lim, P. Salleh, J. Hu, Y.Y. Ng, J. Chen, R.M.C. Yeo, F.Y. Wong
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- > The impact of patient position in large field pelvic radiotherapy: A dosimetric analysis
L. Nolan (Ireland Republic of), M. Leech
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- > A study of dosimetric differences between four techniques of whole breast tangential irradiation
Y.Y. Ng (Singapore), I. Swaminathan, J. Lee, J. Yap, P. Salleh, L. Chua, F.Y. Wong
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- > Comparison of techniques and energies for optimal hair follicle sparing in whole brain radiotherapy
G. Dowse (United Kingdom)
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- > A treatment planning protocol for hypofractionated helical tomotherapy of prostate cancer
M. Iacco (Italy), A. Didona, M. Marcantonini, C. Zucchetti, A. Dipilato, R. Bellavita, L. Falcinelli, I. Palumbo, G. Gobbi
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RTT TRACK: VOLUME DEFINITION, TREATMENT MARGINS, GEOMETRIC UNCERTAINTIES AND TREATMENT ACCURACY

- > The role of radiotherapy technicians in intraoperative radiotherapy with electrons in a dedicated operating room
J. Sola (Spain), E. Escudero, Y. Mohadr, M. Molina, I. Carruesco, A. Huguet, I. Valduvicio, M. Valverde, A. Biete, B. Farrús
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- > Evaluation of set up margins and a correction protocol in radical radiotherapy for head and neck cancer
J. Stratford (United Kingdom), L. Minchell, P. Whitehurst, N. Slevin, L. Lee, A. Choudhury
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- > Usability evaluation of planning MRI acquisition when CT/MRI fusion of computerized treatment plan
D.K. Park (Korea Republic of), B.K. Choi, J.M. Kim, D.H. Lee, K.W. Song
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- > Implementation of Protura into clinical workflow with Varian integration
J. Sharpe (Switzerland), G. Clarkson, S. Lang, C. Winter
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- > Setup variations in in 3-DCRT of the head and neck cancer patients using electronic portal Imaging devices (EPID)
A. Weber (Saudi Arabia), M.E. El Sayed, E.M. Senan, Y.A. Bahadur, Z. Mulla
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- > Selection of the field size for radiation therapy 3D planning in patients with Hodgkin and non-Hodgkin's lymphoma
N.V. Ilyin, D.V. Larinov (Russian Federation), J.N. Vinogradova
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- > Image guided radiotherapy using daily vs weekly cone beam CT for intensity modulated radiotherapy of head and neck
Z. Mulla (Saudi Arabia), M.E. El Sayed, T. Boubakra, V.J. Arputharaj
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- > OAR's dose distribution evaluation before and after on-line corrections through CBCT in prostate cancer patients
V. Salvador, A.L. Soares, L.T. Cunha, C. Castro, A.G. Dias (Portugal)
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- > Continuous verification during breast treatment to exclude dosimetric missings due to the chest respiratory motion
G. Dinolfo (Italy), F. Vazzano, A. Di Giovanni
- > In determining the set-up margins for complex brain radiotherapy, is there a need to account for optic nerve motion?
S. Moinuddin (United Kingdom), N. Fersht, R. Lewis, M. Boutros, G. Royle, I. Rosenberg
- > How big are the differences between individual operators in MVCT verification of target position on Tomotherapy?
B. Bak (Poland), K. Kaczmarek, M. Paszek-Widzinska, A. Ryczkowski, J. Kazmierska, T. Piotrowski
- > Preliminary setup results of a new IGRT protocol for cranio-spinal axis irradiation
M. Frank (The Netherlands), M. Kamphuis, L. Vugts, R. De Jong, A. Bel, N. Van Wieringen
- > Position verification in breast cancer radiotherapy using tantalum clips in the lumpectomy cavity
M. Van der Drift (The Netherlands), J. Kuipers, M. Mast, J. Egmond van, J. Santvoort van, H. Struikmans
- > Haematology toxicity evaluation in whole pelvis RT: Implementing a procedure for contouring bone marrow structures
V. Sacco (Italy), A. Sbalchiero, L. Perna, G. Agnello, C. Cozzarini, C. Fiorino, L. Longoni, F. Zerbetto, G. Salvadori, N. Di Muzio
- > Do fiducial markers improve prostate radiation therapy accuracy when using cone beam CT? Analytical review of 5 cases
I. Lvovich (Israel), T. Charas, A. Nebelsky, O. Person-Kaidar, R. Bar-Deroma, R. Ben-Yosef
- > Inter-observer variability in contouring of the tumor bed in breast cancer patients with and without clips
S. Dicuonzo (Italy), D. Ciardo, M.C. Leonardi, B.A. Jerezek-Fossa, A. Morra, V. Dell'Acqua, F. Cattani, R. Cambria, G. Baroni, R. Orecchia

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RTT TRACK: PATIENT CARE

- > "Time out" in radiation oncology: From the operating to the treating room
I. Prieto (Spain), F. Cassinello, A.M. Perez, J. Luna, J. Olivera, J. Vara
- > From the bunkers up: Engaging RTTs in the journey to Patient and Family Centered Care (PFCC)
A. Walker (Canada), N. Boulanger, D. McLean

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RTT TRACK: EDUCATION AND TRAINING

- > Clinical technology in 21st century radiotherapy education - towards greater alignment with clinical competencies
M. Kirby (United Kingdom), H. Pennington, F. Al-Samarraie, K. Burgess, K.A. Calder, G. Hill, M. Pagett, B. Porritt, M. Warren, L. Waywell
- > «Inverse planning» – an education model for clinically experienced RTTs
T. Katzman (Israel), R. Lan, Z. Symon
- > MRI safety during interventional brachytherapy in a combined 1.5 Tesla MRI/HDR treatment room; the role of the RTT
R.I. Schokker (The Netherlands), K.M. Van Vliet-van den Ende, T. Nguyen, J.C.M. Smienk, M.A. Moerland
- > Staying the Course: An exploration of the student experience for BSc(Hons)Radiotherapy students
C. Gordon (United Kingdom)
- > Service user participation in radiotherapy education
B. Ball (United Kingdom), C. Gordon, G. Hill

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BRACHYTHERAPY TRACK: BREAST

- > Accelerated partial breast irradiation with perioperative multicatheter interstitial brachytherapy
J. Petera (Czech Republic), I. Sirak, P. Jandik, L. Kasaova, P. Motycka, A. Asqar, P. Paluska

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- > Influence of different multi-lumen interstitial applicators on dose distribution in APBI
J. Skowronek (Poland), G. Bieleda, G. Zwierzchowski

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BRACHYTHERAPY TRACK: GYNAECOLOGY

- > A new challenge between clinical examination, transrectal ultrasound and magnetic resonance imaging
C. Ordeanu (Romania), R. Badea, C. Csutak, D.C. Pop, R. Kerekes, N. Todor, V. Nagy
- > Comparison of manuel and inverse optimization methods for HDR tandem-ovoids brachytherapy
B. Yumak (Turkey), O. Senkesen, E. Tezcanli, I. Arslan Kabalay, M. Garipagaoglu, I. Aslay, M. Sengoz
- > A comparison of doses received by HRCTV, GTV & IRCTV using prescription to HRCTV-D90 or to point A using IGBRT
N. Bhandare (USA), A. Yeung
- > Variations of the rectum and bladder doses relative to point A in HDR brachytherapy for cervix uteri cancer patients
M.E. El Sayed (Egypt)
- > Clinical evaluation result radiotherapy after different dose treatment planning brachytherapy cancer cervix
V. Turkevich (Russian Federation)
- > Treated volumes comparison for different fractionation regimens of cervical cancer HDR brachytherapy
K. Akbarov (Azerbaijan), I. Isayev, E. Guliyev, R. Huseynov, T. Muravyov
- > Brachytherapy BT in locally advanced cervical cancer after two different schedules of external radiotherapy.
T. Leroy (France), A. Cordoba, S. Palumbo, E. Tresch, A. Wagner, P. Nickers, T. Lacornerie, E. Lartigau
- > Clinical outcomes and toxicity in MRI based cervical brachytherapy
F. Celada (Spain), E. Cuervo, O. Pons, S. Roldán, A. Soler, R. Chicas, S. Rodríguez, A. Tormo

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- > Quantification of dwell position inaccuracy and dose heterogeneity in ring & tandem applicator using OSL-nano dots
A.Q. Jangda (Pakistan), A. Sharib, R. Latif, N. Mansoor, A. Nasir
- > The vaginal thickness from MRI for prescribed dose of vaginal brachytherapy in endometrial carcinoma
K. Boonyawan (Thailand), N. Amornwichee, C. Khorprasert, P. Alisanant
- > 3D HDR brachytherapy of vaginal apex made with inverse planning dose calculation: a mono-institutional experience
E. Verga (Italy), G. Martin, V. De Chiara, M.D. Falco, P. Morrone
- > Locally advanced cervical cancer in renal transplant patients: A dilemma between control and toxicity
P. Maroun (France), E. Rivin, I. Dumas, M. Mondini, C. Clémenson, J. Brahim, C. Haie-Meder, R. Mazon
- > A new mixed intracavitary and interstitial perineal template compatible with GEC-ESTRO recommendations approach
S. Rodríguez Villalba (Spain), J. Richart, A. Otal, M. Depiaggio, J. Perez Calatayud, M. Santos Ortega
- > The effect of rectal volume on rectum dose-volume metrics during cervical high dose-rate brachytherapy
A. Martos Casado (Spain), S. Sabater, M. Gutierrez-Perez, M.M. Sevillano, I. Andres, R. Berenguer, M. Arenas
- > Long-term results of the 252-Cf brachytherapy combined with EBRT for carcinoma of cervix uteri
E. Janulionis (Lithuania), V. Atkocius, G. Kovacs, K.P. Valuckas, V. Samerdokienė
- > Assessment of air pockets in high-dose rate vaginal cuff brachytherapy using cylindrical applicators
A. Hassouna (Egypt), Y. Bahadur, C. Constantinescu
- > Incidence of uterine perforation and tandem tenting in CT-guided intracavitary radiotherapy for cervical cancer
Y. Shirakawa-Isoyama (Japan), M. Abe, N. Kunitake
- > Adjuvant brachytherapy for endometrial cancer: Is the vaginal mold better than the cylinder?
C. El Khoury (France), I. Dumas, A. Tailleux, P. Morice, C. Haie-Meder

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- > Uterine perforation during three-dimensional image-guided brachytherapy in cervical cancer patients
O.C. Guler (Turkey), C. Onal, Y. Guler, G. Erbay
- > Needle placement accuracy of intracavitary+interstitial cervical brachytherapy using same-day MRI preplanning
J. Hermesse (Belgium), S. Ben Mustapha, N. Jansen, X. Werenne, B. Warlimont, A. Gulyban, F. Goffin, F. Kridelka, P. Coucke, F. Lakosi
- > Predictive factors for high D2cc of the organs at risk in image-guided brachytherapy for cervical cancer
T. Toita (Japan), T. Kusada, G. Kasuya, T. Ariga, H. Shiina, S. Hashimoto, H. Maemoto, Y. Kakinohana, S. Murayama

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BRACHYTHERAPY TRACK: HEAD AND NECK

- > The anti-tumor effects of iodine-125 radioactive seeds radiation in nasopharyngeal carcinoma
L. Jinna (China), L. Jingjia, W. Hao, Q. Ang, Z.H. Yong, W. Junjie
- > 3D-guided high-dose-rate brachytherapy for oral cavity carcinomas – department's retrospective analysis
L. Bujor, A.N. Abrunhosa-Branquinho (Portugal), V. Mareco, A. Duarte, M. Jorge
- > Brachytherapy in non-melanoma skin cancer recurrences
O. Kozak (Ukraine), I.V. Gorot, N.M. Tkachenko
- > Treatment of nasopharynx carcinoma by external beam radiation and endocavitary brachytherapy boost
M. Tortajada-Azcucia (Spain), E. Capelo, A. Martos, J.L. Guinot, A. Mut, J. Samper, D. Abad, A. Bartrès, V. Crispin, L. Arribas
- > Percutaneous computed tomography-guided permanent 125I implantation for treating recurrent head and neck cancer
S. Tian (China), J. Wang, Y.L. Jiang

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BRACHYTHERAPY TRACK: PHYSICS

- > Thermoluminescence dosimetry dose verification of a high dose rate brachytherapy treatment planning in phantom
S. Sakulsingharoj (Thailand), P. Tangboonduangjit
- > Dosimetric characteristics of a new unit for electronic skin brachytherapy
T. Garcia-Martinez (Spain), V. Carmona-Meseguer, J. Gimeno-Olmos, F. LLiso-Valverde, R. Palomo-Llinares, J.P. Chan, F. Ballester-Pallares, J. Perez-Calatayud
- > Dosimetric effects of different source arrangements in permanent prostate brachytherapy
A. Herein (Hungary), P. Ágoston, C. Polgár, T. Major
- > Characterization of the cone beam CT in a hybrid surgery room for Ir-192 HDR 3D brachytherapy
E. Lucio (Italy), A. Boriano, E. Roberto, A. Melano, S. Chauvie, E. Calamia
- > Monte Carlo dosimetry for ocular 125I brachytherapy: the St. Erik Eye Hospital method
M. Karlsson (Sweden), J. Nilsson, M. Lundell, A. Carlsson Tedgren
- > Dosimetric perturbations of a lead shield placed on the body surface for HDR brachytherapy
C. Candela-Juan (Spain), D. Granero, J. Vijande, F. Ballester, J. Perez-Calatayud, M.J. Rivard
- > HDR brachytherapy dose errors resulting from geometric distortion of MR used for fusion in CT-based planning
W. Keough (United Kingdom), W.H. Nailon, M.A. Zahra
- > Comparison between graphical optimization and geometrical optimization in HDR interstitial breast implants
S. Saha (India), A. Ghosh Dastidar, P. Das Gupta, S. Chattopadhyay, K. Ghosh
- > A method for checking the dose delivered to the prescription point from a line HDR or PDR source using alanine dosimetry
E.G.A. Aird (United Kingdom), P. Diez, C.D. Lee, T. Sander, C.A. Gouldstone, P.H.G. Sharpe, P. Price

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- > Dosimetric comparison of multi-channel gynaecological cylinders using IPSA and HIPO optimisation methods
C. Dempsey (Australia), P. Simpson, C. Lapuz
- > The influence of inhomogeneities on measurement of source position in HDR brachytherapy using an EPID
R.L. Smith (Australia), A. Haworth, M.L. Taylor, L.N. McDermott, J.L. Millar, R.D. Franich
- > Risk analysis in brachytherapy department
L. Daci (Albania), J.M. Delgado, M.J. Rot San Juan, C.S. Cayuela
- > GGEMS-brachy: fully GPU Geant4-based Monte Carlo simulation for brachytherapy applications
Y. Lemaréchal (France), J. Bert, N. Boussion, D. Visvikis
- > Brachytherapy HDR source Air Kerma strength evaluation by means of a radiofluorescence-based QA tool
G. Rossi (Italy), M. Carrara, C. Tenconi, M. Borroni, A. Cerrotta, C. Fallai, P. Krechting, E. Pignoli
- > Brachytherapy of liver lesions with 90Y-microspheres: comparing pre- and post-therapy dosimetry
F. Guerriero (Italy), M.E. Ferrari, F. Botta, G. Pedrolì, C. Grana, C. Chiesa, G. Bonomo, F. Orsi, M. Cremonesi

■ **Electronic Poster**

BRACHYTHERAPY TRACK: PROSTATE

- > Introduction of MRI guided HDR brachytherapy for high risk prostate cancer patients in a radiotherapy department
S. Buus (Denmark), S. Rylander, S. Hokland, C.S. Søndergaard, E.M. Pedersen, K. Tanderup, L. Bentzen
- > Iodine-125 seed prostate brachytherapy: seed prediction and class solutions
Y.G.J. Lau, B. Al-Qaisieh (United Kingdom), G. Wright, E. Brearley, J. Mason, P. Bownes
- > Dose escalation with HDR brachytherapy in high risk patients - five year results
R. Soumarova (Czech Republic), L. Homola, T. Blazek, H. Perkova

ABS. N°

EP-1925

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EP-1927

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EP-1933

E-POSTERS

- > Is the V150 a good quality indicator of postimplant dosimetry for I-125 permanent prostate brachytherapy?
M. Zarza Moreno (Portugal), L. Carita, T. Antunes, M. Fortunato, J. Rebola, M. Roldao
- > Clinical evaluation of HIPO algorithm for HDR prostate cancer brachytherapy
C. Alves de Oliveira (Portugal), A. Matos, H. Azevedo, M.C. Lopes
- > Gamma H2AX and 53BP1 foci in lymphocytes correlate with rectal dosimetry in low dose rate I125 prostate brachytherapy
D. Brady (United Kingdom), S. Horn, D. Mitchell, K. Prise, J. O'Sullivan
- > Migration of coated and non-coated seed types at day zero and after four weeks after LDR prostate implant
F.A. Siebert, A. Arndt (Germany), P. Jiang, J. Dunst
- > Choice of planes for sector dosimetric analysis for implant quality assurance in permanent prostate brachytherapy
D. Mitchell (United Kingdom), A.B.M. Yoosuf, M. Byrne, M. Flynn, E. Napier, G. Workman, S. Jain
- > Central pathological review of prostatic biopsies in a multicenter randomized controlled trial (SHIP0804)
K. Miki (Japan), M. Aoki, M. Kido, H. Sasaki, H. Takahashi, S. Egawa
- > Early outcome of salvage LDR brachytherapy for local failure after EBRT for prostate cancer - Irish Experience
J. Khalid (Ireland Republic of), M.F. Jamaluddin, A. Zuchora, S. Cleary, L. Fahy, M. Moore, G. O'Boyle, M.N. Ibrahim, F.J. Sullivan
- > Intra-op check of BARD ProLink I-125 (STM1251) seeds cartridges radioactivity in LDR prostate brachytherapy
V. Stserbakov (Estonia), N. Lapistova

ABS. N°

EP-1934

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■ **Electronic Poster**

BRACHYTHERAPY TRACK: ANORECTAL

- > Human papilloma virus status impact upon the full tumor response for treatment anal cancer
M. Chernykh (Russian Federation), I. Gladilina, O. Kozlov, A. Trigolov, M. Nechushkin, D. Kravchenko

E-POSTERS

- > CT-guided radioactive seed implantation for locally recurrent rectal cancer
H. Wang (China), F. Yi, J. Wang, H. Yuan, J. Li, Y. Jiang, S. Tian

■ **Electronic Poster**

BRACHYTHERAPY TRACK: MISCELLANEOUS

- > The quality of the laparoscopically performed interstitial bladder implantation
A.M. Nap - van Klinken (The Netherlands), S.J.E.A. Bus, T.G. Janssen, M.P.R. Van Gellekom, G. Smits, E.M. Van de Steen-Banasik
- > Surgery combined with attachment of 125I seeds to the tumor bed for treatment of locally advanced pancreatic cancer
Y. Gao (China), J.J. Wang
- > Study and development of a iridium-192 seed for use in ophthalmic cancer
M. Rostelato, C. De Souza (Brazil), F.S. Peleias Jnr, C.A. Zeituni, F.R. Mattos, M.A.G. Benega, J.A. Moura, A. Feher, O.L. Costa
- > CT-guided 125I seed implantation on treatment of recurrent soft tissue sarcoma after multimodal treatment
L. Lin (China), J.J. Wang, Y.L. Jiang, N. Meng, S.Q. Tian, R.J. Yang, C. Liu
- > Keloids treatment brachytherapy
S. Roldán (Spain), E. Cuervo, O. Pons, F. Celada, F. Lliso, A. Soler, R. Palomo, J. Pérez, A. Tormo
- > Palliative combined treatment by high-dose-rate brachytherapy and stents in patients with esophageal cancer.
M. Kanikowski (Poland), J. Skowronek, A. Chichel
- > The results of Interstitial permanent implantation of 125 I seeds for refractory chest wall metastasis or recurrence
J.P. Jiang (China), L.C. Liu, W.J.J. Wang, J.Y.L. Jiang, T.S.Q. Tian
- > Contemporary CT planned skin brachytherapy: The Manchester experience
D. Wood (United Kingdom), S. Baker, M. Boyle, W. Gillespie, A. Stanton, E. Allen

ABS. N°

EP-1943

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EP-1946

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EP-1948

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EP-1950

EP-1951

E-POSTERS

- > Treatment of non melanoma skin cancer with surface HDR Leipzig applicators
A. Grillo (Italy), A. Spera, G. Evangelista, D. Cespuglio, A. Lo Casto, F. Sciumè, E. Greco
- > Intraluminal brachytherapy of inoperable patients with cholangiocarcinoma (long-term results)
E. Makarov (Russian Federation), N. Molodikova, O. Kozlov, M. Nechushkin, A. Kukushkin, V. Strakhov, D. Kravchenko

ABS. N°

EP-1952

EP-1953



SATELLITE SYMPOSIA

SATELLITE SYMPOSIA

SATURDAY 5 APRIL 2014 | 13:00 - 14:15 | ROOM STRAUSS 2-3
ACCURAY
(lunch box provided)

◆ ARE HYPOFRACTIONATION AND PERSONALIZED TREATMENTS THE TREND IN STEREOTACTIC BODY RADIOTHERAPY?

- 13:00-13:10 > Is hypofractionation the trend?
Dr. Lionel Hadjadjeba
GM EIMEA & SVP International Business, Accuray International
- 13:10-13:35 > Is liver ready for prime time in Stereotactic Body Radiation Therapy?
Dr. Xavier Mirabel
Radiation Oncologist, Oscar Lambret Cancer Center, Lille, France
+ 5 min Q&A
- 13:40-14:05 > Personalized treatments for bone tumors – still a challenge today?
Dr. Florian Sterzing
Radiation Oncologist, University Hospital Heidelberg, Heidelberg, Germany
+ 5 min Q&A
- 14:10-14:15 > Concluding remarks
Birgit Fleurent
VP Marketing, Patient Access & Medical Affairs International, Accuray International

Visit Accuray, booth #6300 for more information

SATELLITE SYMPOSIA

SATURDAY APRIL 5 2014 | 13:00 - 14:15 | ROOM LEHAR 1-2-3
ELEKTA
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◆ THE POWER OF CARE

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- > MONACO®5 - ACCURACY ACCELERATED
- > ESTEYA® - HIGH PRECISION SKIN CANCER TREATMENT

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SATURDAY 5 APRIL 2014 | 13:00 - 14:15 | ROOM STRAUSS 1
RAYSEARCH LABORATORIES
 (lunch box provided)

◆ **RAYSEARCH – LUNCH SYMPOSIUM**

- 13:00 – 13:20 > **Planning and dosimetric evaluation of Volumetric Arc Therapy (VMAT) for localized prostate cancer with Multi-Criteria Optimization algorithm (MCO)**
Dr. Oscar Matzinger
Head of Radiation Oncology, L'Hôpital Riviera
- 13:20 – 13:40 > **Dose tracking with breast arctherapy treatment**
Dr. Pierre Fau
Head of Physics Department, Institut Paoli Calmettes
- 13:40 – 14:00 > **The future evolution of RayStation**
Johan Löf, PhD
President & CEO, RaySearch Laboratories
- 14:00 – 14:15 > **Q&A**

Visit **RaySearch**, booth #4100 for more information

SATURDAY 5 APRIL 2014 | 13:00 - 14:15 | AUDITORIUM
VARIAN MEDICAL SYSTEMS
 (lunch box provided)

◆ **KNOWLEDGE DRIVES CLINICAL CARE!
 EMERGING CLINICAL APPLICATIONS AND ADVANCED TECHNOLOGIES**

- > **Introduction & Symposium Chair**
Deepak Khuntia, MD
Varian Medical Systems, Palo Alto, USA
- > **RapidPlan™ - Knowledge-Based Planning**
Sasa Mucic, PhD
Washington University, St. Louis, USA
- > **Knowledge-Based Planning Strategies**
Wilko Verbakel, PhD
VU University Medical Center, Amsterdam, The Netherlands
- > **Clinical Implementation of Calypso® Guided MLC Tracking**
Andrew Kneebone, MD
University of Sydney, Sydney, Australia

Visit **Varian Medical Systems**, booth #2400 for more information

SATELLITE SYMPOSIA

SATURDAY 5 APRIL 2014 | 13:00 - 14:15 | ROOM STOLZ 1-2
VIEWRAY™ INCORPORATED
 (lunch box provided)

◆ **INITIAL CLINICAL EXPERIENCES WITH MRI-GUIDED RADIATION THERAPY**

- 13:00 - 13:20 > **Welcome and technology overview**
James F. Dempsey, PhD
 Founder and Chief Scientific Officer, ViewRay Incorporated, Cleveland, Ohio, USA
- 13:20 - 13:40 > **Physician experience**
Radiation Oncologist
 Siteman Cancer Center, Barnes-Jewish Hospital and Washington University School of Medicine, St. Louis, Missouri, USA
- 13:40 - 14:00 > **Physicist experience**
Medical Physicist
 Siteman Cancer Center, Barnes-Jewish Hospital and Washington University School of Medicine, St. Louis, Missouri, USA
- 14:00 - 14:15 > **Q&A**

Visit **ViewRay**, booth #3750 for more information

SATELLITE SYMPOSIA

SUNDAY 6 APRIL 2014 | 13:00 - 14:15 | ROOM STRAUSS 1
BRAINLAB
 (lunch box provided)

◆ **THE VERO SYSTEM: SBRT, DYNAMIC TUMOR TRACKING AND BEYOND**

- 13:00 - 13:10 > **Introduction and overview**
Herbert Frosch, Managing Director
 Vero GmbH, Munich, Germany
- 13:10 - 13:40 > **Hypo fractionated schedules in different tumor sites with a dedicated machine**
Prof. Roberto Orecchia
 European Institute Of Oncology, Milano, Italy
- 13:40 - 14:10 > **A new era in dynamic tumor tracking with Vero 4DRT**
Prof. Masahiro Hiraoka
 Kyoto University Hospital, Kyoto, Japan
- 14:10 - 14:15 > **Q&A**

Visit **BRAINLAB**, booth 3460 for more information

SATELLITE SYMPOSIA

SUNDAY 6 APRIL 2014 | 13:00 - 14:15 | ROOM LEHAR 4
CARL ZEISS MEDITEC AG
 (lunch box provided)

◆ **CARL ZEISS SATELLITE SYMPOSIUM**

- 13:10 > **Intraoperative radiotherapy in breast cancer: the targeted approach**
Pd Dr. Günther Gruber
Hospital Hirslanden, Switzerland
- 13:25 > **Intraoperative boost. Improving local control in high risk breast cancer patients**
Prof. Dr. Pedro C. Lara
Hospital Universitario De Gran Canaria, Spain
- 13:40 > **Timely irradiation of tumor bed after surgery impairs wound-induced breast cancer cell proliferation**
Dr. Gustavo Baldassarre
CRO National Cancer Institute Aviano, Italy
- 13:55 > **Intraoperative radiotherapy with low-energy x-rays for applications out of breast**
Dr. Elena Sperk
University Medical Center Mannheim, Germany

Visit Carl Zeiss Meditec AG, booth #6100 for more information

SATELLITE SYMPOSIA

SUNDAY 6 APRIL 2014 | 13:00 - 14:15 | ROOM STOLZ 1-2
IBA PROTON THERAPY
 (lunch box provided)

◆ **INTENSITY MODULATED PROTON THERAPY: FROM PHYSICS TO CLINICALLY EFFICIENT CANCER TREATMENT**

Visit IBA Proton Therapy, booth #5100 for more information

SATELLITE SYMPOSIA

SUNDAY 6 APRIL 2014 | 13:00 - 14:15 | ROOM SCHUBERT 1-2-3
PHILIPS HEALTHCARE
 (lunch box provided)

◆ **INNOVATIONS IN THERAPY GUIDANCE**

- 13:00 > **Dose Calculation Speed Improvements in Pinnacle³**
Michael Meltsner, PhD
Research Scientist, Philips Radiation Oncology Systems, Philips Healthcare, USA
- 13:25 > **simCT based on MRI: validation with EPID Dosimetry**
Uulke A. van der Heide, PhD
Medical Physicist, Group Leader, NKI, Amsterdam, The Netherlands
- 13:50 > **Automating IMRT and VMAT planning in Pinnacle³:
 A case study in head and neck cancer**
Markus Wendling, PhD
Medical Physicist, Radboud University Medical Center, Nijmegen, The Netherlands

Visit Philips Healthcare, booth #2700 for more information

SATELLITE SYMPOSIA

SUNDAY 6 APRIL 2014 | 13:00 - 14:15 | AUDITORIUM
VARIAN MEDICAL SYSTEMS
 (lunch box provided)

◆ **CUTTING EDGE™ SYMPOSIUM – ADVANCES IN RADIOSURGERY**

- > **Introduction & Symposium Chair**
Ulrich Oppitz, MD
Lindenhof Hospital, Bern, Switzerland
- > **Single Dose Treatments with EDGE™ featuring Calypso® Motion Management**
Carlo Greco, MD
Champalimaud Centre for the Unknown, Lisbon, Portugal
- > **Radiosurgery of Brain and Spine**
Samuel Ryu, MD
Henry Ford Health System, Detroit, USA
- > **Stereotactic Ablative Radiotherapy (SABR) in HCC and Liver Metastases**
Marta Scorsetti, MD
Humanitas Cancer Center, Milano-Rozzano, Italy

Visit Varian Medical Systems, booth #2400 for more information

SATELLITE SYMPOSIA

MONDAY 7 APRIL 2014 | 13:00 - 14:15 | ROOM STRAUSS 1
IBA DOSIMETRY GMBH
 (lunch box provided)

◆ **ADVANCED SOLUTIONS TO SAFER PATIENT TREATMENT
 – DOSE CONTROL FROM IMAGING TO THERAPY**

- > **Welcome, From Talent to Expertise - the International Competence Center ICC**
Dr. Lutz Müller
Director ICC, IBA Dosimetry GmbH
- > **3D anatomy based plan verification with COMPASS 3.0**
Kees Schilstra
Medical physicist, Radiotherapeutic Institute Friesland, Netherlands
- > **Efficient 2D plan verification with OP I'mRT+**
Juvaraj Sekar
Medical Physicist, Universitätsmedizin Mannheim
- > **Advanced Machine QA with OmniPro Advance**
Dra. Trinidad García Hernandez
Hospital General de Valencia
- > **Imaging QA in Radiation Therapy**
Daniel Bödeker
Sales Director Medical Imaging, IBA Dosimetry GmbH

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SATELLITE SYMPOSIA

MONDAY 7 APRIL 2014 | 13:00 - 14:15 | ROOM LEHAR 4
SCANDIDOS
 (lunch box provided)

◆ **ENSURING PATIENT SAFETY AND QUALITY OF TREATMENT IN MODERN RADIATION THERAPY**

- 13:15 - 13:35 > **Clinical evaluation of the Delta4AT in-vivo dosimetry system**
Dr. Stephanie Lang
Universitäts Spital Zürich
- 13:35 - 13:55 > **Motion management**
TBD
- 13:55 - 14:15 > **Delta4 used for IMRT / VMAT QA at UMC Utrecht**
Wilfred de Vries
UMC Utrecht
- 14:15 - 14:30 > **Dose in patient anatomy**
TBD

Visit scandidos, booth #3900 for more information

SATELLITE SYMPOSIA

MONDAY 7 APRIL 2014 | 13:00 - 14:15 | ROOM SCHUBERT 1-2-3

SUN NUCLEAR CORPORATION

(lunch box provided)

◆ **SUN NUCLEAR CORPORATION SATELLITE SYMPOSIUM**

- 13:10 > **Welcome address**
Roberto Casado
Sun Nuclear Corporation, FL, USA
- 13:15 > **VMAT QA in phantom and in patient**
Christina Skourou, PhD
St. Luke's Radiation Oncology Network, Dublin 9, Ireland
- 13:40 > **TPS commissioning with a cylindrical 3D Water Tank**
Richardo Tortosa Oliver, M.S.
Hospital IMED Elche, Elche (Alicante), Spain
- 14:05 > **A new solution for per fraction QA**
Jeff Kapatoes, PhD
Sun Nuclear Corporation, FL, USA

Visit sun Nuclear Corporation, booth #5500 for more information

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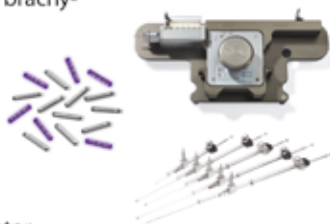
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