



ESTRO 31

9-13 May, 2012
BARCELONA, SPAIN

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Introduction



A welcome note from the conference chairpersons

It is our pleasure to welcome you to ESTRO31.

At the ESTRO 31 Conference the most up-to-date evidence in clinical, physics, radiobiology and oncology science and technology will be presented, and a broad portfolio of educational opportunities will be provided. Life in the ESTRO house will also be enlightened by special interdisciplinary sessions which will jointly address relevant topics for radiation oncologists, physicists, radiobiologists and RTTs in the same forum, allowing each discipline to enrich their knowledge base.

Symposia and debates are foreseen on new evidences - for the more common tumors and for the challenging unusual clinical presentations - as well as in biology, imaging, physics and technology. This includes the integration of molecular and genetic prediction of tumour and normal tissue response, the combination of radiation therapy with new and more efficient molecular targeted drugs, a more extensive use of particle therapies to better spare normal tissues, a complete integration of 4D image guided treatments, the development of adaptive radiation therapy to the most active part of the tumours as defined by functional imaging and the curative use of stereotactic radiotherapy. All these advances challenge machine and patient specific QA and dosimetry as well as the training and practice of radiation technologists.

ESTRO 31 will start with a series of pre-meeting courses which will be followed by an opening ceremony in the evening.

After the great success of contouring workshops at ESTRO 29 in Barcelona, we continue with this initiative and offer workshops daily from Thursday - Sunday.

As in previous conferences, ESTRO 31 offers an additional Young Scientists Track on Friday, 11 May. This track is fully organized by our young members and it enables them to share common interests.

With the increasing number of abstract submissions for ESTRO conferences, we made a special effort to give maximum visibility for the abstracts. We have decided to limit the number of posters displayed at the conference venue to around 500 top scoring abstracts. We feel that this will allow you to easily browse the topics of most interest. In addition to the traditional posters displayed on site, we have introduced 12 poster discussion sessions where displayed posters, grouped around a topic, will be discussed in detail by a chairperson. We hope that these changes will facilitate networking between professionals working on the same or similar topics. The remaining abstracts (E-posters) are available for viewing in special electronic poster viewing stations available during the whole conference.

All of the leading exhibitors will contribute to ESTRO 31, Europe's largest industrial exhibition in radiation oncology, offering the opportunity to view the latest products and services in cancer treatment and cancer care.

Sincerely,

Vincenzo Valentini & Núria Jornet
Chairpersons of the Scientific Programme Committee

Organising Committees

SCIENTIFIC PROGRAMME COMMITTEE

CHAIRS: V. Valentini (IT), N. Jornet (ES)

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Organising Committees

NATIONAL ORGANISING COMMITTEE

CHAIRS: Alfredo Ramos Aguerri, Hospital Ramon y Cajal, Getafe and Carles Muñoz Montplet, Institut Català d'Oncologia, Girona-Barcelona

MEMBERS: Antonio Arellano Tolivar, Hospital Germans Trias i Pujol, Badalona; Roberto Berenguer Serrano, Complejo Hospitalario Universitario de Albacete, Albacete; Sonia Bermejo, Hospital de la Santa Creu i Sant Pau, Barcelona; Felipe A. Calvo, Hospital General Universitario Gregorio Marañón, Madrid; Pablo Carrasco de Fez, Hospital de la Santa Creu i Sant Pau, Barcelona; Enrique de Sena Espinel, Hospital Universitario de Salamanca, Salamanca; Maria A. Duch, Universitat Politècnica de Catalunya, Barcelona; Núria Farré Bernadó, Hospital de la Santa Creu i Sant Pau, Barcelona; Pedro Fernández Letón, Hospital Universitario Madrid Sanchinarro, Madrid; Pedro Galán Montenegro, Hospital Regional Universitario Carlos Haya, Málaga; Alejandro García Romero, Hospital Clínico Universitario Lozano Blesa, Zaragoza; Jordi Giralt, Hospital Universitario Vall d'Hebron, Barcelona; Antonio Gómez Caamaño, Hospital Clínico de Santiago, Santiago de Compostela; Ferran Guedea, Institut Català d'Oncologia, Barcelona; Manuel Hernandez Herrera, Hospital Meixoeiro, Vigo; Ismael Herruzo Cabrera, Hospital Universitario Carlos Haya, Málaga; Asunción Hervás Moron, Hospital Ramon y Cajal, Madrid; Pedro C. Lara, Hospital Universitario de Gran Canaria Dr. Negrín, Las Palmas de Gran Canaria; Ana Mañas, Hospital Universitaria La Paz, Madrid; Rafael Martínez-Monge, Clínica Universitaria de Navarra, Pamplona; Ignasi Modolell i Farré, Institut Català d'Oncologia l'Hospitalet, Barcelona; Victor Manuel Muñoz Garzón, Hospital Meixoeiro-CHUVI, Vigo, José Manuel Ordiales Solís, Hospital de Mérida, Mérida; Amalia Palacios Eito, Hospital Universitario Reina Sofía, Córdoba; Santiago Pellejero Pellejero, Hospital de Navarra, Pamplona; Luis Alberto Perez Romasanta, Hospital General de Ciudad Real, Ciudad Real; Miguel Pombar, Hospital Clínico Universitario de Santiago, Santiago de Compostela; Moisés Sáez Beltran, Hospital Universitario de Fuenlabrada, Fuenlabrada; Pedro Sánchez Galiano, Hospital Universitario Central de Asturias, Oviedo; Waldo Sanjuanbenito Ruiz de Alda, Hospital Universitario de San Juan, Alicante

General Information

ACCOMMODATION & CITY TOURS

Pacific World is the official accommodation agent for ESTRO 31/World Congress of Brachytherapy and will operate an accommodation desk in the Registration area on:

Tuesday	>	16.00 - 18.00
Wednesday	>	09.00 - 19.00
Thursday	>	09.00 - 18.00
Friday	>	09.00 - 18.00
Saturday	>	09.00 - 18.00
Sunday	>	09.00 - 14.00

ACCREDITATION

ESTRO 31 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 31 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, recognized 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.

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 Friday, May 11 through the designated stations in the registration area.

Certificates of attendance can also be downloaded online until 3 months after the event.

General Information

CURRENCY

The currency in Spain is the EURO.

E-POSTER CORNERS

2 electronic poster corners in the exhibition area and 1 in the poster area will be available during opening hours of the exhibition for all participants.

EXHIBITION

An exhibition featuring equipment and medical publishers will be held in the Exhibition area. The opening of the exhibition will be on Thursday 9 May, 2012 at 19.15. The exhibition will remain open from Friday 10 May to Saturday 12 May between 9:30 and 17:00. Entrance is free for all registered participants and accompanying persons.

GENERAL ASSEMBLY

On Saturday, 12 May 2012, at 17:30.

All ESTRO members are invited to attend the ESTRO General Assembly.

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 31 abstracts were considered for the following types of presentations.

- **ORAL COMMUNICATION**

Abstract is presented in one of the Proffered Papers sessions. The presenting author is allowed 10 minutes for the presentation, discussion time included.

- **POSTER DISCUSSION**

During a Poster Discussion session the presenters' posters are digitally displayed utilizing an LCD machine and screen in a designated zone of the Poster Area. A session chair has been appointed to discuss a maximum of 8 concurrent posters within each session.

Instructions for the authors of posters in poster discussion session:

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.

- **POSTER**

Authors are required to display a poster on the designated poster panel. Abstracts are grouped by topic.

Instructions for the authors of posters:

Poster mounting time: Posters can be mounted as of 16:00 on Wednesday, 9 May 2012 or anytime after that. Posters should be on display for the poster reception. Poster removal time: Posters should be removed on Sunday, 13 May 2012 before 12.00. Any posters remaining after this time will be discarded.

Double sided tape for mounting your poster will be available in the poster area.

Authors are requested to be present next to their poster during the **poster reception** which will be held on **Thursday, 10 May 2012 as of 18:30**. It will also be indicated in the official schedule, that posters can be viewed during lunch time on Thursday, 10 May; Friday, 11 May and Saturday, 12 May.

- **E-POSTERS**

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.

INTERNET CORNERS

2 internet corners in the exhibition area will be available during opening hours of the exhibition for all participants.

LUNCHEONS AND REFRESHMENTS

Coffee breaks and lunches will be served in the exhibition area to all participants and exhibitors wearing their conference badges.

General Information

OFFICIAL LANGUAGE

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

OPENING CEREMONY & WELCOME RECEPTION

All participants, registered accompanying persons, and company delegates are invited to the official opening ceremony which will be held in the main auditorium on Wednesday 9 May, 2012 at 18:00. The opening ceremony will be followed by the welcome reception which will take place in the exhibition area.

V. Valentini (IT) - *Chair of Scientific Programme Committee ESTRO 31*

N. Jornet (ES) - *Chair of Scientific Programme Committee ESTRO 31*

C. Haie Meder (FR) - *Chair of the World Congress of Brachytherapy (WCB)*

A. Ramos (ES) - *Chair of National Organising Committee*

C. Muñoz (ES) - *Chair of National Organising Committee*

KEYNOTE SPEAKER: Dr. Manel Esteller (ES)

EPIGENETICS IN HEALTH AND DISEASE: MEDICAL APPLICATIONS

Entertainment: Pagagnini



ABOUT THE KEYNOTE SPEAKER: Dr. Manel Esteller

Manel Esteller (Sant Boi de Llobregat, Barcelona, Catalonia, Spain, 1968) graduated in Medicine from the Universidad de Barcelona in 1992, where he also obtained his Ph.D. degree specialising in molecular genetics of endometrial carcinoma, in 1996. He was an Invited Researcher at the School of Biological and Medical Sciences at the University of St. Andrews, (Scotland, UK) during which time his research interests focused on the molecular genetics of inherited breast cancer. From 1997 to 2001, Esteller was a Postdoctoral Fellow and a Research Associate at the Johns Hopkins University and School of Medicine, (Baltimore, USA) where he studied DNA methylation and human cancer. His work was decisive in establishing promoter hypermethylation of tumour suppressor genes as a common hallmark of all human tumours. From October 2001 to September 2008 Manel Esteller was the Leader of the CNIO Cancer Epigenetics Laboratory, where his principal area of research were the alterations in DNA methylation, histone modifications and chromatin in human cancer. Since October 2008, Dr Esteller is the Director of the Cancer Epigenetics and Biology Program (PEBC) of the Bellvitge Institute for Biomedical Research (IDIBELL) in Barcelona, Leader of the Cancer Epigenetics Group, Professor of Genetics in the School of Medicine of the University of Barcelona, and an ICREA Research Professor. His

current research is devoted to the establishment of the epigenome maps of normal and transformed cells, the study of the interactions between epigenetic modifications and non-coding RNAs, and the development of new epigenetic drugs for cancer therapy. Author of more than three hundred original peer-reviewed manuscripts in biomedical sciences, he is also a Member of numerous international scientific societies, Editorial Boards and reviewer for many journals and funding agencies. Dr Esteller is also Associate Editor for Cancer Research, The Lancet Oncology and Carcinogenesis, Editor-in-Chief of Epigenetics and President of the Epigenetics Society.

His work has received, among other, the Best Young Cancer Researcher Award by the European School of Medical Oncology (1999), First Prize in Basic Research at the Johns Hopkins University and Medical Institution (1999), Best Young Investigator Award from the European Association for Cancer Research (2000), Carcinogenesis Award (2005), Beckman-Coulter Award (2006), Fondazione Piemontese per la Ricerca sul Cancro (FPRC) Award (2006), Swiss Bridge Award (2006), Innovation Award from the Commonwealth of Massachusetts (2007), Human Frontier Science Program Award (2007), DEbiopharm-EPFL Award (2009), Dr. Josef Steiner Cancer Research Award (2009), Lilly Foundation Preclinical Biomedical Research Award (2009), World Health Summit Award (2010), National Award in Genetics (2011) and the European Research Council Advanced Grant (2011).

POSTERS

Posters will be set-up in the Poster area and can be viewed at any time during congress open hours.

POSTER RECEPTION

All participants, registered accompanying persons and company delegates are invited to the poster reception which will be held in the poster area on Thursday, 10 May 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.

SMOKING

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

General Information

SOCIAL ACTIVITIES

- **WEDNESDAY 9 MAY**
All registered participants & accompanying persons and all company delegates are invited to the welcome reception which will take place in the exhibition area from 19:30 to 20:30.
- **THURSDAY 10 MAY**
All participants are invited to the poster reception which will take place in the poster area from 18:30 to 19:30. Canapés and drinks will be served while participants view more than 500 of the best posters.
During the reception, 4 awards of 1000€ each will be handed out to the best scored posters.
- **SATURDAY 12 MAY**
At 20:00 all participants and registered accompanying persons are invited to the ESTRO night which will take place at Cupula Las Arenas, Placa Espanya 08014, Barcelona.

SPEAKER PREVIEW

The Speaker Preview Room is located in Room 133/134.

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

OPENING HOURS:

- Wednesday, 9 May > 16.00-18.00
- Thursday, 10 May > 07.00-18.00
- Friday, 11 May > 07.00-18.00
- Saturday, 12 May > 07.00-18.00
- Sunday, 13 May > 07.30-12:00

WIFI

A wireless internet area will be available during congress hours on the ground floor.

Acknowledgements

ESTRO, THE EUROPEAN SOCIETY FOR RADIOTHERAPY AND ONCOLOGY

WISHES TO THANK FOR THEIR SUPPORT TO THIS CONGRESS:

Accuray
Bayer HealthCare
Carl Zeiss Meditec AG
CIVCO Medical Solutions
Dr Sennewald Medizintechnik
Elekta
Philips Healthcare
RaySearch Laboratories
Varian Medical Systems International AG
Vero GmbH

All companies having supported the participation of delegates in the congress and/or participating in the technical exhibition.

A special thank you to the Chairpersons of the Scientific Committee, Vincenzo Valentini and Nuria Jornet for having accepted the responsibility to develop the scientific programme and to Alfredo Ramos Aguerri and Carles Munoz Montplet for having gracefully accepted to host the ESTRO 31 Congress and taken on the heavy burden of its local organisation.

ESTRO WANTS TO WELCOME AS SPECIAL GUESTS:

ASTRO American Society for Radiation Oncology
CARO Canadian Association of Radiation Oncology
EANM European Association of Nuclear Medicine
EAU European Association of Urology
ECCO European CanCER Organisation
EFOMP European Federation of Organisations for Medical Physics
ESMO European Society for Medical Oncology
ESSO European Society of Surgical Oncology
EORTC European Organisation for Research and Treatment of Cancer
PROS The Paediatric Radiation Oncology Society



(1930)



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2012 ESTRO Booth #5200 • 2012 PTCOG Booth #2



AWARDS

Awards

*** AWARD LECTURES 2012 ***

EMMANUEL VAN DER SCHUEREN AWARD LECTURE

- > **Quality and safety in radiotherapy**
P. Scalliet (BE)
Thursday, 10 May 2012 • 12:30-13:00 • Auditorium

CLAUDIUS REGAUD AWARD LECTURE

- > **Radiation oncology future - Individualization by integration of biology and high technology**
M. Baumann (DE)
Friday, 11 May 2012 • 11:45-12:45 • Auditorium

KLAAS BREUR AWARD LECTURE

- > **25 years of clinical trials for tailoring external irradiation of localized prostate cancer (PCa)**
M. Bolla (FR)
Saturday, 12 May 2012 • 12:30-13:00 • Auditorium

*** HONORARY MEMBER LECTURES ***

- > **The battle against nasopharyngeal cancer**
A. W.M. Lee (HK)
Saturday, 12 May 2012 • 11:45-12:30 • Auditorium
- > **Radiation can be a surgeon's best tool**
P. Naredi (SE)
Saturday, 12 May 2012 • 11:45-12:30 • Auditorium

*** ESTRO-ACCURAY AWARD ***

- > **Stereotactic body radiation therapy for liver tumors**
W. Wunderink (NL)
Friday, 11 May 2012 • 17:30-17:40 • Auditorium

*** ESTRO-VARIAN AWARD ***

- > **Reporting of late rectal and urinary bladder side effects after MRI guided adaptive brachytherapy of cervix cancer**
P. Georg (AT)
Friday, 11 May 2012 • 17:40-17:50 • Auditorium

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

- > **A Bayesian framework for marker-based patient positioning with a few projections in very short arcs**
W. Hoeghele (DE)
Friday, 11 May 2012 • 17:50-18:00 • Auditorium

Awards



PIERRE SCALLIET

Université Catholique de Louvain, Brussels, Belgium

*** *Emmanuel van der Schueren Lecture* ***

Pierre Scalliet was born a Frenchman in 1953, and still is after 50 years in Belgium, his second fatherland. He was educated in the Lycée Français de Belgique for his secondary school, then at the Medical Faculty in Lille for the early years of his medical studies and lastly in the Université Catholique de Louvain for the last leg of his training. He started a fellowship in internal medicine (1979-1983), then a second fellowship in radiotherapy (1983-1987), as he was offered an opportunity to pursue an academic career in this specialty. A bit startled at the beginning to be invited in the “caves” of the hospital, he quickly became fascinated by the enormous potential for development in radiotherapy. His professor at the time was André Wambersie who introduced him to the scientific aspects of the specialty. After a years training in Villejuif with Prof Tubiana, Chassagne and Dr Gerbaulet, he started a PhD research fellowship in Leuven, in the experimental radiotherapy laboratory of E. Van der Schueren. This was the start of a long friendship, only interrupted by his early death. Working with E. Van der Schueren was a permanent experience of energy and enthusiasm. He had such a positive attitude toward life. ESTRO in its infancy needed young energetic officers and he joined in 1992, following JW Leer as a secretary. He was appointed administrator when the office moved from Leuven to Brussels (1997-1999). In the meantime he started his professional career in Antwerp, associate professor at the university and head of the Middelheim public hospital radiotherapy (1989). He then moved to his present position in Brussels, Université Catholique de Louvain (1995) as professor in oncology and head of the radiotherapy department. His main fields of interest are in quality and safety, GI and breast cancer and geriatric oncology.



PROF. MICHAEL BAUMANN

TU Dresden, Med. Faculty Carl Gustav Carus, Dresden, Germany

*** *Claudius Regaud Award Lecture* ***

Professor Dr. Michael Baumann is Professor of Radiation Oncology at the Technische Universität Dresden, chair of the Department of Radiation Oncology and a director of the multidisciplinary University Cancer Center. He also holds an appointment as research director of Radiation Oncology and Radiation Research in Oncology at the Helmholtz Center Dresden-Rossendorf and is the chair of the OncoRay National Center for Radiation Research in Oncology Dresden which is jointly established by the university, university hospital and the Helmholtz Center. Michael Baumann trained at the University of Hamburg and was a postdoctoral fellow at the Massachusetts General Hospital in Boston. He became in 1995 a staff member of the Medical Faculty and University Hospital of the University of Dresden, where he leads the research program on experimental radiotherapy and radiobiology, including investigations into the role of cancer stem cells, molecular targeted drugs, biological imaging for radiotherapy, and functional prediction for radiotherapy. His research is funded by the Deutsche Forschungsgemeinschaft (DFG) the German Federal Ministry of Education and Research (BMBF), the European Union, and the Saxony State Ministry for Science and Arts. He has published more than 250 scholarly articles and book chapters. He supervised more than 25 MD or PhD and 3 Habilitations theses. He received seventeen academic awards including the Gerhard-Hess-Award, (DFG, 1997), Michael Fry Research Award, Radiation Research Society (2002), Breur Gold Medal, European Society for Therapeutic Radiology and Oncology (ESTRO, 2002), the Membership of the German National Academy Leopoldina (2004), and the G.H. Fletcher Distinguished Professor Lecture Award of the MD Anderson Cancer Center (2012). Dr. Baumann has been president of the ESTRO and is the immediate past president of the European Cancer Organisation (ECCO) and president elect of the German Society for Radiation Oncology (DEGRO).

Awards



PROF. MICHEL BOLLA
CHU Grenoble, France

***** Klaas Breur Award Lecture *****

Graduated Doctor in Medicine and Radiation Oncologist in 1976, Michel Bolla has been appointed senior Radiation Oncologist after spending one year as assistant at Centre GF Leclerc in Dijon (1977); he became associate Professor of Oncology in 1980 and full Professor in 1986 at the Joseph Fourier University in Grenoble. He was particularly involved in the structuring of Oncology at the Grenoble University Hospital as Head of the Radiation Oncology Department (1997-2009), President of the Federation of Oncology of Grenoble University Hospital (2000-7), President of the Arc Alpin Oncology Network (2002-9) and President of the Onco-38 territorial network of Oncology (2007-). As a founding member of ESTRO (1980) and SFRO (1990), he integrated EORTC as a member of the Radiation Oncology Group (ROG) in 1980, and was successively secretary (1990-7), chairman (1997-2000) and member of the EORTC Board (2000-6). He was nominated President of SFRO (2006-7), involved in the definition of radiotherapy quality criteria (Plan Cancer), and served as project-manager of the French Radiation Therapy Observatory, under the INCa and SFRO umbrella, with Dr Chauvet.

As regards to clinical research, he was one of the promoters of breast, cervix and colorectal cancers mass screening for women (50-74 years) in Isère (1990) and the coordinator of two Programmes Hospitalier de Recherche Clinique (1993, 1996) of the French Ministry of Health, devoted to prognostic factors of localized breast cancer: DNA-synthesizing enzyme activities, S-phase fraction, DNA ploidy, Protein Tyrosin Kinase activity and Epidermal growth factor receptor. Within the field of prostate cancer, he contributed with the EORTC ROG in promoting the combination of external irradiation and androgen deprivation (NEJM 1997, Lancet 2002, NEJM 2009, Lancet Oncol 2010) and of immediate post-operative irradiation for high risk prostate cancer (Lancet 2005); he was among the first to experience the combination of concomitant and adjuvant docetaxel with irradiation and is now involved in robotics for prostate brachytherapy. He was the first radiation oncologist to contribute to the EAU Prostate Cancer guidelines and to be awarded by EMUC (2009) for excellence in Radiation Oncology. He is now consulting editor of European Oncology.



DR ANNE W.M. LEE

Pamela Youde Nethersole Eastern Hospital, Hong Kong

***** Honorary Member *****

Dr Lee graduated from the University of Hong Kong in 1976. She attained her Fellowship in Clinical Oncology by the Royal College of Radiologists (United Kingdom) in 1983, and became a Fellow of the Hong Kong Academy of Medicine (FHKAM) when it was established in 1993.

She became a consultant serving in public hospitals in Hong Kong since 1991. She has been the Chief of Service for the Department of Clinical Oncology in Pamela Youde Nethersole Eastern Hospital from its opening in 1994 until February 2012.

Her main research contributions focus on nasopharyngeal cancer. She founded the Hong Kong Nasopharyngeal Cancer Study Group, and was its Chairman in 2005-2007.

She was conferred Doctor of Medicine by the University of Hong Kong in 2008, and was awarded the Sir Patrick Manson Gold Medal. She has been appointed Honorary Clinical Professor in Department of Clinical Oncology, University of Hong Kong since 2009. She has numerous publications and she has delivered numerous invited lectures. She was Gilbert H. Fletcher Distinguished Professor Lecturer, awarded by The University of Texas, M.D. Anderson Cancer Center, in 2009.

She is currently the Vice President of Hong Kong College of Radiologists, and the Vice Chairman of Hong Kong Anti-Cancer Society. She also serves in many international academic organizations. She is an Associate Editor or editorial board member for many leading journals.

Awards



PROF. PETER NAREDI

Umeå University Hospital, Sweden

*** Honorary Member ***

Peter Naredi is professor of surgery at the Umeå university hospital. He is subspecialized in Surgical oncology and mainly Hepato pancreato biliary surgery. After his Ph.D. in Surgery 1992 he did a postdoctoral period at the Cancer Center at UCSD in San Diego, California. He returned to Sahlgrenska university hospital in Göteborg, Sweden before he (in 1997) moved to Umeå in Northern Sweden in 2003 he became the professor and chair of the Department of surgery. Naredi has been the initiator and P.I. of several global clinical studies with immunotherapy in melanoma and renal cell carcinoma. Presently his research focus is on cancer chemotherapy resistance and the interaction of tyrosine kinase inhibitors and platinum based cytostatics. He is President of the European Society of Surgical Oncology (ESSO) and the immediate past president of the Swedish surgical society.



WOUTER WUNDERINK

Erasmus Medical Center Rotterdam, The Netherlands

*** ESTRO-ACCURAY Award ***

Wouter Wunderink was born on December 30th 1972, Rotterdam, the Netherlands. He studied applied physics at Delft University of Technology in the Netherlands, where he specialized in signal processing during the Masters program. In 2000, he graduated with a Masters of Science degree before being hired as a scientific programmer to implement tools for spectral analysis. In 2001, he was appointed a project manager in the Royal Netherlands Navy, responsible for the acquisition and acceptance testing of personnel training facilities. He became acquainted with medical physics in 2002, after being selected to participate in a research project on stereotactic body radiation therapy (SBRT) treatments of liver cancer at Erasmus MC, in close co-operation with radiation oncologist Alejandra Méndez Romero. Wouter co-authored 15 peer-reviewed papers and abstracts on the subject and was the inventor of a patented solution for monitoring patients' respiration for the acquisition of 4D-CTs. The defence of his PhD thesis, entitled "Accurate Targeting of Liver Tumors in Stereotactic Radiation Therapy", took place on the 4th of March 2011 at the Erasmus University Rotterdam. On the occasion of Wouter's and Alejandra's defences, an international symposium on liver SBRT was organised. Next to his research activities, Wouter developed treatment procedures, co-assisted treatments, and prepared the quality assurance for an international clinical trial (RAS-trial) on the treatment of liver metastases. In September 2010, Wouter entered a medical physics residency at Erasmus MC for radiation oncology with a focus on the implementation of new medical imaging technologies to improve radiotherapy treatments.

Awards



DR. PETRA GEORG

Medical University Vienna, Austria

*** ESTRO-VARIAN Award ***

Petra Georg received her medical degree at the Medical University of Vienna, Austria, in 2000. Between 1998-1999 she stayed as early stage researcher at the Department of Radiation Oncology at the Catholic University Leuven (Belgium) in the framework of the Erasmus students exchange programme. The research project on the “Cosmetic results of breast conserving treatment for mammary cancer - the impact of different radiotherapy treatment”, which she conducted in Leuven, raised her interest in normal tissue effects. In 2004, after 4 years of clinical practice in general medicine and endocrinology, Petra Georg entered the residency programme for radiotherapy and radiation oncology at the Department of Radiotherapy, Medical University Vienna/AKH Wien. Since then, she combined patient care and clinical research, in which she was mostly focusing on late side effects of radiation treatment and their dose dependency. Petra Georg has been actively involved in the implementation and further development of MRI guided adaptive brachytherapy of cervix cancer in the research group of Prof. Richard Pötter. Her major contribution was the dose response definition for bladder and rectum morbidity after combined external and MRI guided adaptive brachytherapy. In November 2010 she passed her board examination and in January 2012 she was certified as medical specialist in the field of radiotherapy and radiation oncology. Beside clinical responsibilities, Petra Georg is an active lecturer covering both basic clinical education for medical students as well as advanced radiotherapy for PhD students at the Medical University of Vienna. She is also supervising master and doctoral theses.



WOLFGANG HOEGELE, M.SC.

Regensburg University Medical Center, Regensburg, Germany

*** ESTRO-JACK FOWLER University of Wisconsin Award ***

W. Hoegele was born 1984 in Cham, Germany. Since 2003, he has been studying mathematics at the Regensburg University of Applied Sciences (HSR), Germany. In 2007 he graduated with a German diploma degree with distinction. Topic of the thesis was the development of novel optimization techniques for inverse treatment planning in radiotherapy.

During these studies, he spent a research semester at the Max-Planck-Institute for Astrophysics in Garching/Munich, Germany, focusing on Computational Fluid Dynamics (CFD) for the simulation of supernovae.

After the degree in mathematics, he spent a half-year research stay in 2008 at the Dana-Farber / Brigham and Women's Cancer Center (DF/BWCC), Harvard Medical School (HMS), Boston, USA, working on novel VMAT optimization strategies.

For excellence in studies and research in applied mathematics he received the award 'Kulturpreis Bayern' in 2008.

From end 2008 until end 2009 he studied medical physics at the Heidelberg University, Medical Faculty of Mannheim, Germany, and graduated as M.Sc. with best grade. For the master's thesis he spent a second half-year stay at the DF/BWCC (HMS) and focused further on the clinical application of new VMAT optimization strategies.

Since 2009 he has been working on his doctoral studies in medical physics (biomedical program) focusing on image guidance for radiotherapy at the Regensburg University Medical Center, Germany. In parallel, he is teaching computer science and engineering students in applied mathematics at the HSR.

His current research is concerned with the Bayesian estimation of patient positioning errors utilizing short-arc radiographs.



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www.merckgroup.com

Merck Serono, a division of Merck KGaA, Darmstadt, focuses in oncology on identifying key molecules involved in the formation of cancer, which can then be used in the development of novel targeted treatments that specifically act on cancer cells. Research activities are focused on three areas:

- Compounds that act directly on tumor cells
- Compounds that act indirectly on tumor cells via their interaction with their local environment
- Compounds that enhance the immune system

The monoclonal antibody Erbitux® (cetuximab) specifically blocks the epidermal growth factor receptor (EGFR). Erbitux has now received approval in 80 countries for the treatment of metastatic colorectal cancer (mCRC) and in 77 countries for the treatment of squamous cell carcinoma of the head and neck (SCCHN). A range of new compounds, including among others the cancer vaccine Stimuvax® (BLP25 liposome vaccine) and the integrin inhibitor cilengitide, are currently undergoing clinical development.

Mevion Medical Systems 5200

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Mevion Medical Systems, Inc. (formerly Still River Systems, Inc.) is a radiation therapy company dedicated to advancing the treatment of cancer. Mevion's flagship product, the MEVION S250 Proton Therapy System, is designed to preserve all of the treatment benefits of traditional proton therapy systems while removing the obstacles of size, cost, and complexity. Founded in 2004, Mevion is a privately held company headquartered in the Boston metropolitan area with international offices in the United Kingdom and Japan. The United States Food and Drug Administration has not cleared the MEVION S250 Proton Therapy System for clinical use.

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Exhibitors

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Exhibitors

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Siemens AG 1100

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SEOR - Spanish Society for Radiation Oncology 4910

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The Spanish Society for Radiation Oncology (SEOR) is a private, nonprofit scientific association with more than 800 Spanish and foreign specialists (including medical residents) whose work focuses primarily on the treatment of cancer and other non-neoplas-

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Standard imaging, Inc. designs, manufactures and commercially distributes instruments and software for radiation calibration and quality assurance in support in radiation treatment of cancer. Products include external beam QA devices, brachytherapy source calibration and prostate brachytherapy instruments, electrometers, exradin ion chambers, dosimetry phantoms, IMRT and MU verification software, imaging QA software, and eIMRT pre-planning software.

SPRO - Sociedade Portuguesa Radioterapia Oncologia 4910

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SATELLITE SYMPOSIA

Carl Zeiss Meditec AG

THURSDAY, 10 MAY 2012

13:00 - 14:20 • ROOM 115 (Lunch box provided)

→ TARGETED INTRAOPERATIVE RADIOTHERAPY WITH THE INTRA-BEAM SYSTEM

CHAIRS: Prof. Dr. David Joseph and Prof. Dr. Jeffrey Tobias

- 13:00 > **Introduction**
- 13:10 > **The TARGIT trial - evolution and latest update**
Prof. Dr. Jeffrey Tobias, Royal Free & UCL Medical School, London
- 13:25 > **IORT as a tumor boost - local control and patients preference**
Prof. Dr. David Joseph, Sir Charles Gardiner Hospital, University Department of Surgery, Nedlands, Australia
- 13:40 > **Implementation of TARGIT after 20 years of electron IORT: the Montpellier experience**
Prof. Dr. David Azria, University Montpellier, Department of Radiation Oncology, Montpellier, France
- 13:55 > **New Applications - KypHo-IORT and intravaginal X-ray brachytherapy**
Dr. Elena Sperk, University Medical Center Mannheim, Mannheim, Germany
- 14:10 > **Panel discussion and conclusion**
- 14:20 > **Close**

Elekta

THURSDAY, 10 MAY 2012

13:00 - 14:20 • ROOM 116 (Lunch box provided)

→ ONE ELEKTA - YOUR CLINICAL PARTNER

- > **Targeting radiation therapy to patients; the role of brachytherapy**
Prof. F. Guedea, Instituto Catalán de Oncología (ICO), Barcelona, Spain
- > **Integrating MOSAIQ® into a multi-vendor department**
June Dean DCR(T), MSc Medical Physics, Oncology Centre, Addenbrookes Hospital, Cambridge, UK
- > **Commissioning of the Elekta Agility for clinical use**
Dr. Vivian Cosgrove, St. James Institute of Oncology, Leeds, UK

Varian BrachyTherapy

Debate Series

THURSDAY, 10 MAY 2012

13:00 - 14:20 • ROOM 112 (Lunch box provided)

→ EVERYTHING OR SOMETHING? IS THERE A PLACE FOR PARTIAL BREAST IRRADIATION IN EARLY STAGE BREAST CANCER?

JOIN US AS EXPERTS DEBATE:

“Partial breast irradiation is an effective sole treatment after lumpectomy for women with small tumours who are at low risk of having multifocal disease”

The debate will address the underlying basis for partial breast irradiation of any type (i.e. external beam radiotherapy, intraoperative irradiation or brachytherapy).

Your vote will determine the final outcome.

> DEBATE MODERATOR:
Prof. Dr. Peter Niehoff
 Krankenhaus Köln Merheim, Germany

> DEBATERS:
Douglas Arthur, MD
 Virginia Commonwealth University School of Medicine, USA

Frank Sullivan, MD
 Galway University Hospital, Ireland

Visit Varian Medical Systems
 Booth No. 100 for more information

RaySearch Laboratories

THURSDAY, 10 MAY 2012

13:00 - 14:20 • ROOM 111 (Lunch box provided)

- 13:00 > Introduction of the speakers by the moderators
- 13:05 > **First talk with Q&A included:**
Clinical importance of automated dose accumulation: Ensuring quality treatment for all patients
Kristy Brock, Associate Professor at Princess Margaret Hospital, University of Toronto
- 13:30 > **Second talk with Q&A included:**
First clinical experience with Multicriteria Optimization (MCO) at Massachusetts General Hospital
Thomas Bortfeld, Professor at Harvard Medical School & Director of Physics Division at Massachusetts General Hospital, Department of Radiation Oncology
- 13:55 > **Third talk with Q&A included:**
RayStation®: A new dimension in treatment planning
Johan Löf, President & CEO of RaySearch Laboratories

Dr. Sennewald Medizintechnik GmbH

FRIDAY, 11 MAY 2012

13:00 - 14:20 • ROOM 118/119 (Lunch box provided)

→ HYPERTHERMIA AND RADIATION: PROGRESS IN TARGETED TUMOR THERAPY

CHAIRS: *Stephan Bodis MD (Aarau, Switzerland) and Peter Levendag MD PhD (Rotterdam, The Netherlands)*

- 13:00 - 13:10 > **Welcome and introduction**
Chairs
- 13:10 - 13:22 > **The Atzelsberg Circle: the challenge of clinical trials**
Rolf Sauer MD (Erlangen, Germany)
- 13:22 - 13:34 > **Hypercollar applicator for head & neck cancer: first clinical results**
Peter Levendag MD PhD (Rotterdam, The Netherlands)
- 13:34 - 13:46 > **Hyperthermia & chemotherapy; from sarcoma to pancreatic cancer - a path for mainline tumor treatment?**
Rolf Issels MD PhD (Munich, Germany)
- 13:46 - 13:58 > **Technological challenges in hyperthermia**
Gerard van Rhoon PhD (Rotterdam, The Netherlands)
- 13:58 - 14:10 > **Immune response and heat shock**
Udo Gaipl PhD (Erlangen, Germany)
- 14:10 - 14:20 > **Discussion and closing remarks**

Vero SBRT

FRIDAY, 11 MAY 2012

13:00 - 14:20 • ROOM 115 (Lunch box provided)

→ CLINICAL EXPERIENCES WITH VERO SBRT

Join us at ESTRO 31 in Barcelona to hear about the latest Vero SBRT news including the system's unique tracking features.

- > **Welcome & Introduction**
Herbert Frosch, Managing Director, Vero GmbH
- > **JOINT SPECIALTY-DRIVEN PRESENTATION**
Clinical Opportunities & Technical Solutions
Prof. Dr. Marc De Ridder, Head of Radiotherapy Department, UZ Brussel
Prof. Dr. Dirk Verellen, Head of Medical Physics, UZ Brussel
- > **Outlook & Future Developments**
Herbert Frosch, Managing Director, Vero GmbH

Philips Healthcare

FRIDAY, 11 MAY 2012

13:00 - 14:15 • ROOM 116 (Lunch box provided)

→ PHILIPS IN MOTION

- > **Functional MRI - Its Role in Radiation Oncology. A Clinician's Point of View**
Prof. Karin Haustermans, Chair of Department of Radiation Oncology, Oncology Cancer Institute, Leuven, Belgium
- > **Treatment Planning in a Changing World - Dynamic Planning with Pinnacle³**
Carl Rowbottom, Ph.D., Christie Hospital NHS Trust, Manchester, UK
- > **Incorporating O-MAR Metal Artifact Correction into Radiotherapy Workflow**
Carri K. Glide-Hurst, Ph.D., DABR, Senior Staff Physicist, Henry Ford Health System, Detroit, Michigan, USA
- > **Early Clinical Results with New Pinnacle³ Auto-Segmentation**
Mark Warren, Senior Planning Radiographer, Christie Hospital NHS Trust, Manchester, UK

Accuray

FRIDAY, 11 MAY 2012

13:00 - 14:15 • ROOM 113/114 (Lunch box provided)

→ ADVANCING RADIATION ONCOLOGY TOGETHER

CHAIR: *Prof. Eric Lartigau, Centre Oscar Lambert, Lille, France*

- > **Vision of Accuray**
Mr. Euan Thomson, Accuray Incorporated, Sunnyvale, USA
- > **Stereotactic Radiotherapy for Peripheral and Centrally Located NSCLC**
Dr. Noelle van der Voort van Zyp, Erasmus MC- Daniel den Hoed Cancer Center, Rotterdam, The Netherlands
- > **Adaptive Treatment with TomoTherapy for Head and Neck Cancer: Dream or Reality?**
Prof. Vincent Gregoire, UCL- St-Luc University Hospital, Brussels, Belgium

Varian Medical Systems

FRIDAY, 11 MAY 2012

13:00 - 14:20 • ROOM 117 (Lunch box provided)

→ ADVANCED TRUEBEAM™ CLINICS

- > **Introduction & Symposium Chair**
Prof. Dr. Ben J. Slotman, VU University Medical Center, Amsterdam, The Netherlands
- > **RapidArc® Radiosurgery for Intracranial and CNS Indications**
Prof. Dr. Ufuk Abacioğlu, Neolife Medical Center, Istanbul, Turkey
- > **Initial Experience of Extreme Hypofractionation with TrueBeam™ (SBRT using FFF) and SpaceOAR for Low Intermediate-Risk Prostate Cancer**
Dr. Filippo Alongi, Humanitas Cancer Center, Rozzano (Milano), Italy
- > **Clinical Experience in Real-Time Motion Tracking with the Varian Calypso System**
Prof. Dr. Carlo Greco, University of Pisa, Italy

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Bayer Healthcare

SATURDAY, 12 MAY 2012

13:00 - 14:15 • ROOM 115 (Lunch box provided)

→ CRPC WITH BONE METASTASES: SURVIVAL BENEFIT WITH NEW-GENERATION THERAPIES

- 13:00 - 13:10 > **Welcome and introduction**
 - Introduce the agenda and faculty
 - CRPC: Global incidence and current treatment paradigm

CHAIR: (to be announced)
- 13:10 - 13:25 > **Where do we stand in metastatic CRPC?**
 - Overview of all treatment modalities in mCRPC divided according to OS benefit and mechanism of action (docetaxel, cabazitaxel, abiraterone, sipuleucel-T) and no OS benefit (denosumab, bisphosphonates, beta-emitters, EBRT)
 - Key data (primary endpoints, secondary endpoints, safety) for current approved therapies

SPEAKER: *Daniel Heinrich, Medical Oncology, Norway*
- 13:25 - 13:40 > **Bone-Targeted Agents: Current Options and Unmet Needs**
 - Morbidity and mortality associated with bone metastases
 - Mechanisms of action, efficacy and safety of current therapies for bone metastases (beta-emitters and EBRT in detail; also denosumab and bisphosphonates)
 - Unmet need for bone-targeted agents with OS benefit

SPEAKER: (to be announced)
- 13:40 - 14:00 > **Recent and Upcoming Data in Metastatic CRPC**
 - Session will describe recent data (including phase 3 with radium-223) in metastatic CRPC and discuss key trials expected to yield data soon

SPEAKER: *Valerie Lewington, Nuclear Medicine, UK*
- 14:00 - 14:08 > **Optimizing therapy: Which patient for which treatment?**
 - Patient selection for different modalities of therapy - CHAIR
- 14:08 - 14:14 > **Questions and answers** - CHAIR WITH FACULTY
- 14:14 - 14:15 > **Closing remarks** - CHAIR



PRE-MEETING COURSES

Clinical

→ HOW IMAGING INNOVATIONS CAN OPTIMISE MULTIDISCIPLINARY TUMOUR BOARDS' CHOICES

Jointly organised with ESOR

COURSE DIRECTORS: *P. Lambin (NL) and A. Palkó (HU)*

WEDNESDAY, 9 MAY 2012
8:30 - 16:30 • ROOM 116



COURSE AIMS

This course, jointly organized by ESTRO and ESOR (European School of Radiology), aims at promoting an integrated approach between specialists involved in multidisciplinary tumour boards to tailor the best treatment for each individual patient by exploiting the use of imaging.

New advanced imaging technology not only provides morphological information on tumour extension, but also information on tumour function and biology. It not only allows a good evaluation of tumour response during and after treatment, but also an early detection of tumour recurrence. Radiation oncologists increasingly use hybrid equipment in which diagnostic imaging technology is incorporated within the radiation treatment machines to allow continuous adaptation of radiation treatment according to the daily response of the tumour, the surrounding organs and their movement.

Thus there is a growing interest to enhance the collaboration between imaging specialists to optimise and to adapt the different uses of imaging to the comprehensive clinical management of the oncological patient.

By the combination of lectures and case discussions, this course aims to offer a programme focusing on the use of imaging in a truly multidisciplinary environment to support understanding between different specialists' needs, practising common language and delineating research perspectives.

WHO SHOULD ATTEND?

The target group consists of radiation oncologists and senior residents and junior radiologists who are interested in learning and improving their knowledge on an optimal approach to multidisciplinary treatment management exploiting the use of imaging.

PROGRAMME

08:30 - 08:45 > Opening remarks

PART I: Innovation in hardware

08:45 - 09:15 > PET- MR: What are the prospective? - *E. Rummeny (DE)*

09:15 - 09:45 > Dual energy CT: preclinical and clinical experience - *C. Zech (DE)*

PART II: Quantification of imaging

09:45 - 10:15 > Standardisation in PET - *A. Chiti (IT)*

10:15 - 10:30 > Coffee break

10:30 - 11:00 > Diffusion MR: potential and challenges - *V. Goh (UK)*

11:00 - 11:30 > Quantification of response: beyond RECIST - *L. Marti-Bonmati (ES)*

11:30 - 12:00 > Radiomics: how to get more out of imaging - *P. Lambin (NL)*

12:00 - 12:30 > Discussion: Moderated by *A. Palkó (HU)*

12:30 - 13:30 > Lunch

PART III: Clinical session: What do we need to know in a multidisciplinary tumour board? State of the art and beyond

13:30 - 14:00 > Head and Neck cancer - *M. Becker (CH)*

14:00 - 14:30 > Lung cancer - *L. Bonomo (IT)*

14:30 - 15:00 > Coffee Break

15:00 - 15:30 > Prostate cancer - *J.C. Vilanova (ES)*

15:30 - 16:00 > Rectum cancer - *R. Tan-Beets (NL)*

16:00 - 16:30 > Discussion and closing

Radiobiology

→ COMBINING RADIATION WITH TARGETED THERAPIES: CONCEPTS, OPPORTUNITIES AND PITFALLS

COURSE DIRECTORS: *C. Vens (NL) and A. Chalmers (UK)*

WEDNESDAY, 9 MAY 2012
9:00 - 17:00 • ROOM 118-119

COURSE AIMS

Research into the mechanisms underlying resistance of tumours to radiation therapy has identified a number of key pathways that could be targeted in order to improve tumour control. And advances in drug development have provided us with new drugs to manipulate these pathways. But only a few of these targeted agents have been successfully combined with radiation therapy in the clinic, and the results have been mixed. The aim of this course is to provide an overview of the key concepts and pathways involved, and to discuss progress made and problems encountered in bringing radiation/targeted therapy combinations to the clinic.

WHO SHOULD ATTEND THE COURSE?

The course is targeted at radiation oncologists who may be aware of the existence of targeted therapies, and may even have prescribed them, but would like to learn more. In particular we will try to explain why and how these agents can be combined with radiation therapy. Research or scientific experience is not required, but the course will also be of interest to scientists undertaking radiation related research.

PROGRAMME

- | | |
|--|--|
| 09:00-09:15 | > Welcome and introduction - <i>C. Vens (NL) and A. Chalmers (UK)</i> |
| 09:15-09:30 | > Molecular targeted agents in combination with radiotherapy - a pharmaceutical industry perspective - <i>O. Ataman (UK)</i> |
| PART I: Concepts and strategies | |
| 09:30-10:00 | > Targeting the DNA damage response - <i>A. Begg (NL)</i> |
| 10:00-10:30 | > Targeting radiation induced signal transduction pathways - <i>G. Higgins (UK)</i> |
| 10:30-11:00 | > Coffee break |
| 11:00-11:30 | > Targeting the microenvironment to enhance tumour radiation responses - <i>N. Cordes (DE)</i> |
| 11:30-12:00 | > Combining radiation with agents that target angiogenesis and vasculogenesis - <i>E. Hammond (UK)</i> |
| PART II: Promises and limitations | |
| 12:00-12:30 | > What to target and who to include? - <i>K. Harrington (UK)</i> |
| 12:30-13:00 | > Lunch |
| 13:30-14:00 | > Targeted therapy biomarkers for patient individualization - <i>M. O'Connor (UK)</i> |
| 14:00-14:30 | > Biomarkers of radiation response - <i>D. Zips (DE)</i> |
| PART III: Towards the clinic | |
| 14:30-15:00 | > The radiation oncologist's perspective: hopes and fears - <i>R. Simcock (UK)</i> |
| 15:00-15:30 | > Coffee Break |
| 15:30-16:00 | > Exploiting opportunities: how to design RT combination trials? - <i>A. Chalmers (UK)</i> |
| PART IV: The future | |
| 16:00-16:45 | > Combining targeted radiation with targeted agents - a vision for the future... - <i>T. Lawrence (USA)</i> |
| 16:45-17:00 | > Final discussion and concluding remarks - <i>Anthony Chalmers (UK) and C. Vens (NL)</i> |

Physics

→ WHAT A PHYSICIST SHOULD CONSIDER BEFORE GOING INTO A PROTON THERAPY

COURSE DIRECTOR: *H. Nyström (SE)*

WEDNESDAY, 9 MAY 2012
09:00 - 17:00 • ROOM 115

COURSE AIMS

In many countries in Europe as well as in the rest of the world, proton therapy facilities are either in the process of being created or are already well-established. In fact, the increase in the number of new facilities has been more or less exponential for many years, leading to an increased demand for medical physicists capable of carrying out proton therapy projects.

There are many obvious advantages when using proton therapy compared to conventional photon based radiotherapy, since a significantly larger fraction of the absorbed dose is actually delivered to the target volumes and an overall superior dose distribution is achieved.

However, substantial differences exist in terms of technology, treatment planning, dosimetry, QA etc. What is a reasonable staffing level? What is a reasonable "business plan"? How should acceptance testing be performed? What are the demands for clinical commissioning? What are the demands for treatment planning? What are the demands for QA?

This course aims at answering a few of the above-mentioned questions and at giving an overview of the particular aspects of radiotherapy that are specific to proton therapy. In particular those involved in the start up phase of a proton therapy project or those that are considering entering into such a project would benefit from participation.

WHO SHOULD ATTEND?

The participant in the course is expected to be a medical physicist experienced in conventional radiotherapy but curious about proton therapy.

PROGRAMME

- 09:00 - 09:30 > What is the rationale for going into proton therapy and who is planning to do so? - *H. Nyström (SE)*
- 09:30 - 10:00 > Introduction to the physics of protons and basic dosimetry for PT - *A. Mazal (FR)*
- 10:00 - 10:30 > How to write the specifications - *M. Schwarz (IT)*
- 10:30 - 11:00 > Coffee break
- 11:00 - 11:30 > Business plan and staffing - *H. Nyström (SE)*
- 11:30 - 12:00 > Clinical commissioning of a passive scattering PT system - *A. Mazal (FR)*
- 12:00 - 12:30 > Acceptance testing and clinical commissioning of a scanning beam PT system - *J. McDonough (USA)*
- 12:30 - 13:30 > Lunch
- 13:30 - 14:00 > Treatment planning for passively scattered protons, including margin concepts - *M. Engelsman (USA)*
- 14:00 - 14:30 > Treatment planning for actively scanned protons, including margin concepts - *A. Lomax (CH)*
- 14:30 - 15:00 > CT scanning and the handling of image artifacts (including needed CT-QA) - *M. Schwarz (IT)*
- 15:00 - 15:30 > Coffee Break
- 15:30 - 16:00 > How to obtain an efficient patient flow in a multi gantry PT facility? - *J. McDonough (USA)*
- 16:00 - 16:30 > QA and plan verification in complex situations, including IMPT - *A. Lomax (CH)*
- 16:30 - 17:00 > Round table discussion and summing up

Physics

→ RECENT ADVANCES IN BRACHYTHERAPY PHYSICS Jointly organised by GEC-ESTRO BRAPHYQS Group and the ESTRO Physics Committee

COURSE DIRECTORS: *J. LM Venselaar (NL) and D. Baltas (DE)*

WEDNESDAY, 9 MAY 2012
9:00 - 17:00 • ROOM 111

COURSE AIMS

- To demonstrate the most recent developments in brachytherapy physics: a discussion on recent and future societal reports and recommendations,
- To discuss the developments in source calibration, quality assurance, and new equipment,
- To discuss the steps towards modern 3D conformal image based brachytherapy,
- To discuss new and forthcoming advanced treatment planning: model based dose calculation algorithms and inverse planning and optimisation methodologies in intensity modulated brachytherapy,
- To discuss the similarities and differences between modern 3D conformal ERT and BRT and its consequences for the concepts of margins.

WHO SHOULD ATTEND?

The course is aimed primarily at medical physicists and medical physicists in training, and at technologists willing to update themselves on the latest developments in brachytherapy physics. A basic knowledge of brachytherapy physics is required.

PROGRAMME

- | | |
|-------------|---|
| 09:00-09:15 | > Introduction:
Towards modern brachytherapy physics - <i>J. Venselaar (NL)</i> |
| 09:15-09:45 | > Source calibration:
Current and future developments - <i>T. Sander (UK)</i> |
| 09:45-10:30 | > Approaches for 3-D dose calculation in brachytherapy - <i>L. Beaulieu (CA)</i> |
| 10:30-11:00 | > Coffee break |
| 11:00-11:45 | > Inverse planning and optimization methodologies in intensity modulated brachytherapy - <i>D. Baltas (DE)</i> |
| 11:45-12:30 | > Image guided brachytherapy: use of CT and MRI, US, and PET
- <i>FA Siebert (DE) and TP Hellebust (NO)</i> |
| 12:30-13:30 | > Lunch |
| 13:30-14:00 | > Uncertainties associated with the physical aspects:
calibration and dose calculation - <i>L. DeWerd (USA)</i> |
| 14:00-14:30 | > Uncertainties associated with the clinical steps:
imaging, reconstruction, delivery and implications of inter/intra-fraction alterations - <i>C. Kirisits (AT)</i> |
| 14:30-15:00 | > Similarities and differences in modern 3D conformal Radiotherapy:
ERT versus BRT and its consequences for margin concepts
- <i>K. Tanderup (DK)</i> |
| 15:00-15:30 | > Coffee Break |
| 15:30-16:15 | > Quality management and specific QA procedures for modern imaging-based brachytherapy - <i>M. Rivard (USA)</i> |
| 16:15-17:00 | > In-vivo dosimetry:
detectors, techniques and possible clinical applications - <i>J. Cygler (CA)</i> |

→ THE DELINEATION OF NORMAL STRUCTURES: PRACTICE AND CHALLENGES

COURSE DIRECTORS: *D. Pasini (IT) and S. Rivera (FR)*

COURSE TUTORS: *G. Mantello (IT), D. Genovesi (IT), B. Speleers (BE) and M. Leech (IE)*

WEDNESDAY, 9 MAY 2012
8:15 - 17:00 • ROOM 131-132

COURSE AIMS

Intensity Modulated Radiotherapy Techniques (Static or rotational IMRT-techniques) rather than uniform intensity techniques give the ability to conform dose distributions to a variety of complex tumour sites/volumes while sparing nearby critical normal tissue structures (OAR) as possible.

The QUANTEC reports have summarised the evidence from a wide range of studies relating to the dose tolerance of the main OARs. Several of the reports highlight the issue of the normal tissue delineation considering both anatomical and functional aspects. In order to achieve a greater level of accuracy in the definition of OARs, there is an urgent need to improve the knowledge of the anatomical limits of some selected structures. It is therefore important to become familiar with contouring procedures on the different imaging modalities implemented in the treatment planning systems, without neglecting the organ dose-volume tolerance.

This course will specifically focus on the anatomical definition of normal structures within the head and neck, thorax and pelvic regions.

An introductory lecture will illustrate the meaning of OAR delineation within the frame of the QUANTEC report.

The following section will be organised in:

- 1) A first theoretical part for each site, where an expert will give an overview of the delineation of the selected organ/s at risk in accordance with the QUANTEC recommendations,
- 2) It will be followed by a practical session in which the participants will have the opportunity to apply their knowledge in practice with the support of the faculty. They will be asked to contour organs on FALCON, an E-learning software tool based on the EDUCASE platform of ESTRO which has already been used successfully during previous workshops on target volume delineation.

In preparation for the course and to ensure maximum benefit, the participants will be

asked to use the FALCON platform at home to delineate selected organs at risk. The same exercise will be repeated during the course and, after the experts' lectures, the comparison between the exercises will be discussed by the teachers using FALCON tools. As an outcome of the course we would like the participants to review their clinical practice in the context of the new recommendations of normal structure delineation and QUANTEC guidelines.

WHO SHOULD ATTEND?

This course is designed for radiation technologists involved in planning and radiation oncologists in training.

PROGRAMME

- 08:15 - 08:30 > Introduction - *D. Pasini (IT) and S. Rivera (FR)*
- 08:30 - 09:00 > Delineation of organ at risk in the QUANTEC era - *G. Gagliardi (SE)*
- 09:00 - 09:45 > Practice and challenges in H&N OAR delineation (pharynx) - *A. Eisbruch (USA)*
- 09:45 - 10:00 > FALCON - *D. Pasini (IT) and S. Kaylor (USA)*
- 10:00 - 10:30 > OAR delineation in H&N: hands on contouring
- 10:30 - 11:00 > Coffee break
- 11:00 - 11:15 > Verification and discussion
- 11:00 - 11:45 > Practice and challenges in thorax OAR delineation (heart - brachial plexus) - *U. Nestle (DE)*
- 11:45 - 12:30 > OAR delineation in thorax: hands on contouring
- 12:30 - 13:30 > Lunch
- 13:30 - 14:15 > Verification and discussion
- 14:15 - 15:00 > Practice and challenges in pelvis OAR delineation (rectum - small bowel) - *I. Syndikus (UK)*
- 15:00 - 15:30 > Coffee Break
- 15:30 - 16:15 > OAR delineation in pelvis: hands on contouring
- 16:15 - 16:45 > Verification and discussion
- 16:45 - 17:00 > Conclusions



ADDITIONAL SESSIONS

ALATRO-SEOR-SPRO National Day

WEDNESDAY, 9 MAY 2012
11:00-14:00 • ROOM 120/121

→ SYMPOSIUM: PROSTATE CANCER (CÁNCER DE PRÓSTATA)

CHAIR: *L.A. Pérez Romasanta (ES)*

- 11:00 - 11:30 > Brachytherapy for prostate cancer (Braquiterapia en el cáncer de próstata)
SPEAKER: *M. de Lurdes Trigo (PT)*
- 11:30 - 11:50 > External radiotherapy for early stage prostate cancer (Radioterapia externa para cáncer de próstata precoz)
SPEAKER: *Á. Martínez (USA)*
- 11:50 - 12:10 > Adjuvant hormonal treatment for prostate cancer (Terapia hormonal adyuvante para el cáncer de próstata)
SPEAKER: *J. López Torrecila (ES)*
- 12:10 - 12:30 > Discussion
- 12:30 - 13:00 > Lunch

→ ORAL COMMUNICATIONS

CHAIR: *F. Guedea (ES)*

- 13:00 - 13:10 > Iodine-125 brachytherapy: PSA Nadir less than 1ng/ml as prognostic factor
Lísias Nogueira Castilho (BR)
- 13:10 - 13:20 > HDR brachytherapy boost and external radiotherapy for unfavorable prostate cancer patients
Isabel Monteiro Grillo (PT)
- 13:20 - 13:30 > Prostate ultrasound-based IGRT. can the prostate be displaced by the ultrasound probe pressure?
Nicholas Rene (AR)
- 13:30 - 13:40 > Hypofractionated radiotherapy with helical tomotherapy for localized prostate cancer
Jose Luis Lopez Guerra (CL)
- 13:40 - 13:50 > Caport study: prostate cancer patient profile in the radiation oncology consultation
Javier Maldonado (ES)
- 13:50 - 14:00 > Post-radiotherapy erectile dysfunction - a model for assessing the conflicting literature on dose-volume effects
Eleonor Rivin del Campo (ES)

Contouring Workshops

→ BREAST

THURSDAY, 10 MAY 2012
08:00-10:00 • ROOM 131/132

CHAIR: *P. Poortmans (NL)*

PANELLISTS: *A. Biete Sole (ES), B. Offersen (DK)*

COORDINATOR: *S. Rivera (FR)*

→ PROSTATE

SATURDAY, 12 MAY 2012
08:00-10:00 • ROOM 131/132

CHAIR: *V. Khoo (GB)*

PANELLISTS: *A. Bossi (FR), C. Salembier (BE)*

COORDINATOR: *B. de Bari (IT)*

→ CNS

FRIDAY, 11 MAY 2012
08:00-10:00 • ROOM 131/132

CHAIR: *N. Burnett (UK)*

PANELLISTS: *U. Ricardi (IT), M. Eble (DE), S. Delorme (DE)*

COORDINATOR: *B. de Bari (IT)*

→ GYNAECOLOGY

SUNDAY, 13 MAY 2012
08:00-10:00 • ROOM 131/132

CHAIR: *R. Pötter (AT)*

PANELLISTS: *C. Haie-Meder (FR), P. Petric (SI)*

COORDINATOR: *S. Rivera (FR)*

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
- Delineation with max 2 participants per computer
- 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

Lunch Symposium for Young Scientists

This symposium aims to present and discuss the experiences from different disciplines in working in a European country other than the one they trained in. The symposium will be made up of three parts.

Firstly, speakers have been invited from Radiation Oncologists, Physicists, RTTs and Biologists who have worked abroad both for short term and extended periods of time. Each speaker will present their personal experiences and any issues they had with having their qualifications recognised. They will also comment on how the situation may have changed since the time of their visit.

Secondly, there will be a talk on what ESTRO is doing to support young people (Technology Transfer Grants, ESTRO Fellows etc) as well as a talk on EU / UEMS accreditation.

For the third part, European national societies will display information on the current requirements for working clinically (i.e. as a registered professional) in terms of qualifications, experience and language ability, in their country.

→ EDUCATION AND WORKING AROUND EUROPE

FRIDAY, 11 MAY 2012

13:00-14:00 • ROOM 122-123

CHAIR: *Mary Coffey (IE)*

- 13:00 - 13:15 > What is ESTRO doing to support young people (TGGs, ESTRO Fellow etc)
R. Potter (AT)
- 13:15 - 13:31 > Experience from 4 people trained in one country and working in another country for a long period
M. Mangoni (IT), I. Torres (ES), L. Hong (AUS), JL Lopez Guerra (US)
- 13:31 - 13:47 > Experience from 3 people trained in one country and working in another country within the TTG programme
C. Vens (NL), T. Reynders (BE), J. Stevanovic (SR)
- 13:47-14:02 > EU / UEMS accreditation
J. Eriksen (DK)
- 14:02-14:30 > Discussion

→ A ROADMAP TO A CONTRACT WITH THE YOUNG MEMBERS OF ESTRO

During this session the Young Task Force will present the plans being made by ESTRO to develop Professional and Education opportunities specifically for the young members of ESTRO and to formally sign a contract of commitment with the Young societies of Europe.

CHAIRS: *C. Clark (UK) and S. Rivera (FR)*

- 14.30 > Objectives of the Young Task Force
D. Zips (DE)
- 14.40 > Results of a survey of Young Professionals in Radiation Oncology
B. De Bari (IT)
- 14.55 > Overview of the Roadmap to the Contract with the Young
L. Muren (DK)
- 15.05 > Experiences of the French Young Society in Radiation Oncology (SfjRO) in setting up a contract with ESTRO
P. Blanchard (FR) and S. Thureau (FR)
- 15.15 > Discussion panel with questions from the floor? *All*

→ YOUNG MOVING POSTER SESSION

There will be 14 moving poster sessions covering different topics in Clinical, Biology, Physics and RTT areas. The presentations will be informal and there will be plenty of opportunities to ask questions and to discuss with the presenters and the audience (see Scientific Programme on May 11 for more information).

→ YOUNG SOCIAL EVENT

After a busy day of stimulating and inspiring presentations and information specifically for Young Professionals, time to relax a little and get to know your colleagues better over a beer. Details will be given during the sessions.

ESTRO School Symposium

→ **ESTRO SCHOOL SYMPOSIUM**

FRIDAY, 11 MAY 2012

18:00-19:00 • ROOM 120/121

- 18:00 > Achievements and perspectives of the ESTRO School
Richard Pötter, Chair ESTRO Education and Training Committee
- 18:15 > Education in radiation medicine: vision and philosophy
Rethy Chhem, Director of the Division of Human Health, IAEA
- 18:30 > UEMS (European Union of Medical Specialists):
aims, vision and focus for the coming years
Romuald Krajewski, President UEMS
- 18:45 > ESTRO vision and strategy
- Focus on the education and training activities and the ESTRO School
Vincenzo Valentini, ESTRO President



SCIENTIFIC PROGRAMME

Thursday 10 May 2012

		ABS. NUMBER
■	TEACHING LECTURE EXTRA CRANIAL STEREOTACTIC: FROM TECHNICAL AVAILABILITIES TO CLINICAL OPPORTUNITIES 08:00 - 08:40 • Auditorium CHAIR: <i>R. Miralbell (Switzerland)</i> 08:00 > Extracranialstereotactic radiotherapy: from technical availabilities to clinical opportunities SPEAKER: <i>E. Lartigau (France)</i>	SP-0001
■	TEACHING LECTURE WHEN IS HYPOFRACTIONATION MANDATORY? THE RADIOBIOLOGISTS' AND CLINICAL POINT OF VIEW 08:00 - 08:40 • Room 113-114 CHAIR: <i>P. Blanchard (France)</i> 08:00 > When is hypofractionation mandatory? The radiobiologist's and clinical point of view SPEAKER: <i>M. Joiner (USA)</i> 08:20 > When is hypofractionation mandatory? The radiobiologist's and clinical point of view? SPEAKER: <i>C. Petersen (Germany)</i>	SP-0002 SP-0003
■	TEACHING LECTURE IMAGE-GUIDED ADAPTIVE RADIOTHERAPY (IGART): STATE OF THE ART 08:00 - 08:40 • Room 115 CHAIR: <i>F. Guedea (Spain)</i> 08:00 > Image-guided adaptive radiotherapy (IGART): state of the art SPEAKER: <i>C. Glide-Hurst (USA)</i>	SP-0004

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

Thursday 10 May 2012

		ABS. NUMBER
■	TEACHING LECTURE FLATTENING FILTER FREE PHOTON BEAMS 08:00 - 08:40 • Room 117 CHAIR: <i>T. Wiezorek (Germany)</i> 08:00 > Flattening filter free photon beams SPEAKER: <i>D. Georg (Austria)</i>	SP-0005
■	TEACHING LECTURE BIostatISTICS REFRESHER 08:00 - 08:40 • Room 116 CHAIR: <i>M. Aznar (Denmark)</i> 08:00 > Biostatistics refresher SPEAKER: <i>I.R. Vogelius (Denmark)</i>	SP-0006
■	TEACHING LECTURE THE DNA DAMAGE RESPONSE FOLLOWING IRRADIATION AND ITS SIGNIFICANCE 08:00 - 08:40 • Room 120-121 CHAIR: <i>C. Vens (The Netherlands)</i> 08:00 > The DNA damage response following irradiation and its importance SPEAKER: <i>P. Jeggo (United Kingdom)</i>	SP-0007
■	SYMPOSIUM CLINICAL ACHIEVEMENTS IN EXTRACRANIAL STEREOTACTIC: FACTS OR PROMISES 08:45 - 10:00 • Auditorium CHAIR: <i>E. Lartigau (France)</i> Co-CHAIR: <i>TBC</i> 08:45 > Stereotactic ablative radiotherapy (SABR) as standard in early-stage NSCLC SPEAKER: <i>S. Senan (The Netherlands)</i> 09:10 > Stereotactic radiotherapy for the treatment of primary and secondary liver tumours SPEAKER: <i>X. Mirabel (France)</i>	SP-0008 SP-0009

Thursday 10 May 2012

		ABS. NUMBER
09:35	> Extracranial stereotactic radiosurgery for spinal and paraspinal metastasis SPEAKER: <i>D. Rades (Germany)</i>	SP-0010
■ JOINT SYMPOSIUM		
ESTRO-EAU: THE CHALLENGE OF TREATING EARLY INTERMEDIATE RISK PROSTATE CANCER		
08:45 - 10:00 • Room 113-114		
CHAIR: <i>W. Artibani (Italy)</i>		
Co-CHAIR: <i>V. Valentini (Italy)</i>		
08:45	> Is dose escalation appropriate? SPEAKER: <i>D.P. Dearnaley (United Kingdom)</i>	SP-0011
09:03	> The role of robotic assisted laparoscopy in the early treatment of prostate cancer SPEAKER: <i>C. Abbou (France)</i>	SP-0012
09:21	> Innovative surgery: opportunities and constraints - robotic SPEAKER: <i>TBC</i>	SP-0013
09:39	> The role of androgen blockade combined with radiotherapy SPEAKER: <i>F. Lohr (Germany)</i>	SP-0014

■ SYMPOSIUM**ADAPTIVE RADIOTHERAPY: OPPORTUNITIES AND PITFALLS**

LEARNING OBJECTIVES:

1. To decide when re-planning is necessary in adaptive radiotherapy process
2. To discuss validation methods and limitations of deformable registration
3. To understand methods and limitations of dose accumulation
4. To propose tools for biology-based adaptive radiotherapy

Thursday 10 May 2012

		ABS. NUMBER
08:45 - 10:00 • Room 115		
CHAIR: <i>C. Munoz Montplet (Spain)</i>		
Co-CHAIR: <i>M. Verheij (The Netherlands)</i>		
08:45	> Rules for re-planning in adaptive radiotherapy SPEAKER: <i>L. Dawson (Canada)</i>	SP-0015
09:03	> Can deformable registration approaches be reliable? SPEAKER: <i>K. Brock (Canada)</i>	SP-0016
09:22	> Strategies for dose accumulation in adaptive radiation therapy SPEAKER: <i>E. Heath (Canada)</i>	SP-0017
09:41	> Biological adaptation strategies SPEAKER: <i>J. Kaanders (The Netherlands)</i>	SP-0018
■ SYMPOSIUM		
HOT RESEARCH ISSUES IN ION BEAM THERAPY		
LEARNING OBJECTIVES:		
1. To understand the limitations and potential of proton and carbon beams		
2. To understand the potential and technology for single particle tomography.		
3. To understand why range uncertainties cannot be dealt with through simple PTV margins		
08:45 - 10:00 • Room 117		
CHAIR: <i>H. Nyström (Sweden)</i>		
Co-CHAIR: <i>C. Gomà (Switzerland)</i>		
08:45	> Ion species beyond protons and carbon ions SPEAKER: <i>O. Jäkel (Germany)</i>	SP-0019
09:10	> Single particle tomography for verifying ion beam delivery SPEAKER: <i>W. Enghardt (Germany)</i>	SP-0020
09:35	> Treatment planning: integrating robustness in optimization SPEAKER: <i>T. Bortfeld (USA)</i>	SP-0021

Thursday 10 May 2012

		ABS. NUMBER
■ PROFFERED PAPERS		
PHYSICS 1: INTRAFRACTION MOTION MANAGEMENT		
08:45 - 10:00 • Room 116		
CHAIR: <i>P.R. Poulsen (Denmark)</i>		
Co-CHAIR: <i>A. Latorre Musoll (Spain)</i>		
08:45	> Evaluation of a wavelet-based least mean square motion prediction algorithm for lung and liver patients <i>O. Blanck (Germany), R. Dürichen, F. Ernst, J. Dunst, D. Rades, G. Hildebrandt, A. Schweikard</i>	OC-0022
08:55	> Gated MRI-linac (MRL) treatment for kidneys: inter breath hold variations <i>M.K. Stam (The Netherlands), M. Van Vulpen, B.A. Zonnenberg, M. Intven, S.P.M. Crijns, J.J.W. Lagendijk, B.W. Raaymakers</i>	OC-0023
09:05	> Development of a dynamic tumor tracking irradiation system, Vero4DRT (MHI-TM2000), with a gimbaled X-ray head <i>A. Sawada (Japan), Y. Matsuo, Y. Miyabe, M. Nakamura, T. Shiinoki, Y. Ishihara, N. Mukumoto, T. Mizowaki, M. Kokubo, M. Hiraoka</i>	OC-0024
09:15	> Comparison of a MLC and a HexaPOD tracking system for organ motion compensation during radiotherapy <i>M.J. Menten (Germany), M. Guckenberger, C. Herrmann, A. Krauß, S. Nill, U. Oelfke, J. Wilbert</i>	OC-0025
09:25	> Correlation of optical surface mapping with CBCT for monitoring intra-fraction motion during SBRT for NSCLC <i>S. Kirwin (United Kingdom), J.R. Sykes, M. Naisbit, A. Needham, K. Franks, D.I. Thwaites</i>	OC-0026
09:35	> Real-time segmentation of liver tumor markers during acquisition of CBCT projections and intra-treatment kV images <i>W. Fledelius (Denmark), E. Worm, M. Høyer, P.R. Poulsen</i>	OC-0027

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

Thursday 10 May 2012

		ABS. NUMBER
09:45	> First clinical results for motion compensated cone-beam CT (CBCT) in Stereotactic ablative radiotherapy (SABR) <i>A. Van der Reijden (The Netherlands), M. Rossi, S. Rit, S. Conijn, J. Belderbos, M. van Herk, P. Remeijer, J.J. Sonke</i>	OC-0028
■ SYMPOSIUM		
SYNTHETIC LETHAL APPROACHES IN RT: EXPLOITING MUTATIONS		
LEARNING OBJECTIVES:		
1. To review the status of molecularly stratified trials in radiotherapy		
2. To review the prospects for identifying new targets for modifying the radiation response		
3. To review whether modification of the tumour microenvironment could be used as a strategy for radiosensitisation		
08:45 - 10:00 • Room 120-121		
CHAIR: <i>G. McKenna (United Kingdom)</i>		
Co-CHAIR: <i>K. Borgmann (Germany)</i>		
08:45	> Exploiting hypoxia dependent DNA repair defects SPEAKER: <i>R. Bristow (Canada)</i>	SP-0029
09:10	> The use of functional screens to identify novel targets of radiosensitisation SPEAKER: <i>G. Higgins (United Kingdom)</i>	SP-0030
09:35	> Synthetic lethal approaches for RAS using biologics SPEAKER: <i>K. Harrington (United Kingdom)</i>	SP-0031
■ POSTER DISCUSSION: 1		
CHALLENGES IN DOSIMETRY		
09:00 - 09:45 • Poster Area		
CHAIR: <i>J. Cygler (Canada)</i>		
Co-CHAIR: <i>A. Nisbet (United Kingdom)</i>		
	> A fast and accurate method for field characterization in low and medium energy x-ray beams <i>D. Rodríguez Latorre (Spain), A. Latorre-Musoll, T. Eudaldo Puell, P. Carrasco de Fez, N. Jornet i Sala, A. Ruiz Martínez, T. Martínez Jurado, D. Macià Bros, M. Ribas Morales</i>	PD-0032

Thursday 10 May 2012

- | | ABS. NUMBER |
|--|-------------|
| > Microdosimetric spectra measured with a tissue-equivalent microcalorimeter in a low-energy proton beam
<i>S. Galer (United Kingdom), H. Palmans, L. Hao, K. Kirkby, A. Nisbet</i> | PD-0033 |
| > An international code of practice for the dosimetry of small static photon fields
<i>H. Palmans (United Kingdom), R. Alfonso, P. Andreo, R. Capote M. S. Huq, J. Izewska J. Johansson, W. Kilby, T.R. Mackie, A. Meghzifene K. Rosser, J. Seuntjens, W. Ullrich</i> | PD-0034 |
| > Array dosimetry customized for stereotactic radiosurgery: square air core light guide technology
<i>P.Z.Y. Liu (Australia), N. Suchowerska, P. Naseri, D.R. McKenzie</i> | PD-0035 |
| > Optimized output factor measurement method for Cyberknife collimators
<i>J. Szanto (Canada), E. Henderson, E. Vandervoort</i> | PD-0036 |
| > High precision output factor results for the CyberKnife iris collimator small fields
<i>A. Moutsatsos (Greece), L. Petrokkokinos, K. Zourari, C. Antypas, P. Papaqiannis, P. Karaïskos, E. Georgiou, I. Seimenis, E. Pantelis</i> | PD-0037 |
| > Multi-institutional dosimetric commissioning of image-guided small animal irradiators
<i>P. Granton (The Netherlands), P.E. Lindsay, A. Gasparini, J.J. Sonke, F. Verhaegen, D. Jaffray</i> | PD-0038 |
| > Validation of a convolution method for static non standard field dosimetry
<i>D. González-Castaño (Spain), M.A. Gago-Arias, J. Pardo, F. Gómez, V. Luna-Vega</i> | PD-0039 |

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- | | ABS. NUMBER | |
|---|---|---------|
| > Dosimetric verification of Acuros XB in heterogeneities against experimental measurements and Monte Carlo methods
<i>M. Bueno (Spain), M.A. Duch, D. Jurado Bruggeman, S. Agramunt Chaler, C. Munoz Montplet</i> | PD-0040 | |
| ■ PROFFERED PAPERS | | |
| CLINICAL 1: STEREOTACTIC | | |
| 10:30 - 11:30 • Auditorium | | |
| CHAIR: <i>M. Guckenberger (Germany)</i> | | |
| Co-CHAIR: <i>B. De Bari (Italy)</i> | | |
| 10:30 | > Factors affecting intrafraction motion and baseline shifts in stereotactic ablative body radiotherapy for NSCLC
<i>M.M.G. Rossi (The Netherlands), J.S.A. Belderbos, C. Chen, J.J. Sonke</i> | OC-0041 |
| 10:42 | > Stereotactic body radiotherapy for oligometastatic patients with single abdominal lymph node recurrent cancer
<i>B. Jereczek-Fossa (Italy), G. Piperno, S. Ronchi, G. Catalano, C. Fodor, R. Cambria, P. Fossati, D. Zerini, C. Garibaldi, R. Orecchia</i> | OC-0042 |
| 10:54 | > Is SBRT an attractive option for unresectable liver metastases? Preliminary results from a phase II trial
<i>S. Arcangeli (Italy), S. Castiglioni, A. Tozzi, P. Navarra, F. Alongi, S. Pentimalli, A.M. Ascolese, P. Mancosu, M. Scorsetti</i> | OC-0043 |
| 11:06 | > Efficacy of stereotactic body radiation therapy for primary renal cell carcinoma
<i>J. Wurzer (USA), B. Kimmel, G. Braga, A. Pagnani</i> | OC-0044 |
| 11:18 | > Geometric and dosimetric accuracy of frame-less image-guided radiosurgery in clinical practice
<i>M. Guckenberger (Germany), J. Roesch, K. Baier, R. Sweeney, M. Flentje</i> | OC-0045 |

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		ABS. NUMBER
■ PROFFERED PAPERS		
CLINICAL 2: PROSTATE		
10:30 - 11:30 • Room 113-114		
CHAIR: <i>R. de Crevoisier (France)</i>		
Co-CHAIR: <i>D. Vordermark (Germany)</i>		
10:30	> Short term hormone therapy and dose escalated radiation for localized prostate cancer: a randomized phase III study <i>G. Mok (Canada), R. Glicksman, J. Sykes, A. Bayley, P. Chung, R. Bristrow, M. Gospodarowicz, C. Catton, M. Milosevic, P. Warde</i>	OC-0046
10:40	> Phase III study of adjuvant RT for prostate cancer: Impact of pathologic review on analysis <i>D. Bottke (Germany), S. Störkel, R. Golz, A. Siegmann, N. Willich, L. Hertel, L. Weißbach, K. Miller, W. Hinkelbein, T. Wiegel</i>	OC-0047
10:50	> Long vs. short-term androgen deprivation plus 78 Gy 3DCRT for prostate cancer: Preliminary results DART01/05 trial <i>A. Zapatero (Spain), A. Guerrero, X. Maldonado, A. Alvarez, C. González San Segundo, A. Cabeza, V. Macías, F. Casas, C. Martin de Vidales, F.A. Calvo</i>	OC-0048
11:00	> The impact of comorbidities on the benefits of prolonged androgen ablation in patients with T3-4 prostate cancer <i>S. Tyldesley (Canada), E. Tran, M. Paquette, J. Jay, M. Liu, J. Hamm, G. Duncan, T. Pickles</i>	OC-0049
11:10	> Does 11C-choline PET-CT contribute to multiparametric MR imaging for prostate cancer localization? <i>S. Isebaert (Belgium), L. Van den Bergh, M. Koole, R. Oyen, S. Joniau, E. Lerut, C.M. Deroose, F. De Keyzer, H. Van Poppel, K. Haustermans</i>	OC-0050
11:20	> Quality of life after radical radiotherapy for prostate cancer: results from a randomised trial of EBRT ± HDR-BT <i>P. Hoskin (United Kingdom), A. Rojas, P. Ostler, R. Hughes, L. Bryant, G. Lowe, M. Woodruff</i>	OC-0051

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■ SYMPOSIUM		
ADAPTIVE RADIOTHERAPY: HOW TO HANDLE THE TUMOUR MODIFICATION ALONG THE TREATMENT		
LEARNING OBJECTIVES:		
1. To understand the anatomical and tumour changes and their dosimetric consequences during radiotherapy for head and neck, lung and gynaecological tumors		
2. To appreciate the various clinical and sectional imaging modalities, planning and delivery techniques and clinical applications for adaptive radiotherapy		
3. To be able to discuss the advantages, current challenges, future potentials and limitations of adaptive radiotherapy		
10:30 - 11:30 • Room 115		
CHAIR: <i>M. Verheij (The Netherlands)</i>		
Co-CHAIR: <i>C. Munoz Montplet (Spain)</i>		
10:30	> Adaptive radiotherapy of head and neck cancer, with integration of biological information SPEAKER: <i>C. Grau (Denmark)</i>	SP-0052
10:50	> Lung SPEAKER: <i>W. van Elmpt (The Netherlands)</i>	SP-0053
11:10	> Gynaecology SPEAKER: <i>R. Pötter (Austria)</i>	SP-0054
■ PROFFERED PAPERS		
PHYSICS 2: PROTON THERAPY		
10:30 - 11:30 • Room 117		
CHAIR: <i>T. Bortfeld (USA)</i>		
Co-CHAIR: <i>TBC</i>		
10:30	> Graphite calorimetry in a clinical proton beam <i>R. Thomas (United Kingdom), N. Lee, M. Bailey, H. Palmans, D. Shipley, S. Rossomme, L. Al-Sulaiti, A. Kacperek</i>	OC-0055
10:40	> Correction of optical artifacts in a liquid scintillator dosimetry system <i>S. Beddar (USA), D. Robertson, L. Archambault, R. Mohan</i>	OC-0056

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		ABS. NUMBER
10:50	> Commissioning and quality assurance of scanned proton beams produced by a synchrotron for particle radiotherapy <i>M. Ciocca (Italy), A. Mairani, A. Mirandola, S. Molinelli, G. Vilches Freixas, M. Donetti, R. Orecchia</i>	OC-0057
11:00	> Experimental verification of rescanning and gating for moving tumours with fast proton spot scanning <i>A. Schätti (Switzerland), M. Zakova, D. Meer, T. Lomax</i>	OC-0058
11:10	> Intrafractional online motion targeting - beam's eye view imaging system for scanned proton therapy <i>Y. Zhang (Switzerland), M. Zakova, A.K. Knopf, S. Safai, T. Lomax</i>	OC-0059
11:20	> Experimental evaluation of prompt gamma imaging with a slit camera for real time range control in proton therapy <i>J. Smeets (Belgium), F. Roellinghoff, D. Prieels, F. Stichelbaut, A. Benilov, P. Busca, C. Fiorini, R. Peloso, T. Frizzi, J.C. Dehaes</i>	OC-0060

■ PROFFERED PAPERS

PHYSICS 3: QC AND AUDITS FOR NEW TECHNIQUES AND TECHNOLOGY

10:30 - 11:30 • Room 116

CHAIR: C. Clark (United Kingdom)

Co-CHAIR: T. Eudaldo (Spain)

10:30	> VMAT quality assurance (QA): software tool to analyse linear accelerator parameters accuracy <i>C. Lafond (France), C. Odin, J. Even, J.P. Manens</i>	OC-0061
10:40	> 3D in vivo verification of VMAT treatments using EPID dosimetry <i>R.A. Rozendaal (The Netherlands), I. Olaciregui-Ruiz, R. Tielenburg, R. Vijlbrief, J. Stroom, B. Mijnheer, A. Mans, J.J. Sonke, M. Van Herk</i>	OC-0062

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		ABS. NUMBER
10:50	> Event and scenario recognition in a video surveillance system for radiotherapy treatments <i>M. Portela Sotelo (France), P. Dupuis, A. Pereira, E. Desserée, J.M. Moreau, C. Ginestet, H. Kafrouni</i>	OC-0063
11:00	> Rotational radiotherapy in the UK - A pilot audit <i>M. Hussein (United Kingdom), Y. Tsang, R. Thomas, C. Gouldstone, D. Maughan, J. Snaith, S. Bolton, C.H. Clark</i>	OC-0064
11:10	> A National Project for the in-vivo dosimetry in radiotherapy: first results <i>A. Piermattei, L. Azario, S. Cilla, A. Fidanzio, F. Greco, M. Russo (Italy), S. Zucca</i>	OC-0065
11:20	> Multinational IMRT credentialing by phantom irradiation: A joint RPC and EORTC ROG experience <i>C.W. Hurkmans (The Netherlands), A. Molineu, D.S. Followill, R. Moeckli, V. Vallet, C. Melidis, D.C. Weber</i>	OC-0066

■ PROFFERED PAPERS

RADIOBIOLOGY 1: TARGETING

10:30 - 11:30 • Room 120-121

CHAIR: M. Vooijs (The Netherlands)

Co-CHAIR: J. Bussink (The Netherlands)

10:30	> Tumour microenvironment, membranous EGFR expression and efficacy of internal irradiation with 90Y-Cetuximab <i>L. Koi (Germany), A. Yaromina, K. Brüchner, J.M. Heldt, R. Bergmann, H.J. Pietzsch, J. Pietzsch, J. Steinbach, M. Baumann, D. Zips</i>	OC-0067
10:40	> The NAD ⁺ depleting agent APO866 enhances cell death when combined with radiation <i>M. Verheij (The Netherlands), S. Zerp, B. Floot, C. Vens, B. Van Triest</i>	OC-0068

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		ABS. NUMBER
10:50	> TGFB Receptor I inhibitor radiosensitizes Glioblastoma by targeting CD44high/ID1+ glioma initiating cells <i>A. González-Juncà (Spain), X. Maldonado, M. Beltran, F. Martínez Ricarte, J. Rodon, J. Seoane</i>	OC-0069
11:00	> Radiosensitization of murine sarcoma tumors with intratumoral Interleukin-12 gene electrotransfer <i>A. Sedlar (Slovenia), S. Kranjc, M. Cemazar, A. Coer, T. Dolinsek, G. Sersa</i>	OC-0070
11:10	> Inactivation of HNSCC cells by 90Y-labeled Cetuximab strictly depends on number of induced DNA double-strand breaks <i>E. Dikomey (Germany), J. Saker, M. Zenker, J.M. Heldt, H.J. Pietzsch, M. Kriegs, C. Petersen, M. Baumann, J. Steinbach, U. Kasten-Pisula</i>	OC-0071
11:20	> Rapamycin-induced activation of Akt prevents its radiosensitizing effect on human solid tumor cells <i>M. Bechtel (Germany), M. Toulany, H.P. Rodemann</i>	OC-0072

■ PROFFERED PAPERS

RTT 1: PATIENT CARE AND INFORMATION

10:30 - 11:30 • Room 118-119

CHAIR: A. Baker (United Kingdom)

Co-CHAIR: S. Bermejo (Spain)

10:30	> Patient satisfaction with the radiotherapy related information they received <i>P. Nickola (Ireland Republic of), J. Cunningham, M. Coffey</i>	OC-0073
10:40	> Can patients be better prepared and more satisfied during the course of radiation therapy by using iPad's? <i>C. Wilde Björling (Sweden), M. Lagerlund, M. Östlund, P. Johansson, C. Axelsson, S. Johnsson</i>	OC-0074

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		ABS. NUMBER
11:50	> Awareness of cervical cancer and factors that influence smear attendance in women within the screening age criteria <i>E. Nic An Ghaeirr (Ireland Republic of), A. Craig</i>	OC-0075
11:00	> UK National Voluntary Reporting and Analysis of Radiotherapy Errors and Near Misses (2009-2011) <i>U. O'Doherty (United Kingdom)</i>	OC-0076
11:10	> A qualitative study of work load and coping strategies of RTT's in radiotherapy	OC-0077
11:20	> Improving patient safety during radiation therapy using human factors methods <i>A.J. Chan (Canada), M.K. Islam, T. Rosewall, D.A. Jaffray, A.C. Easty, J.A. Cafazzo</i>	OC-0078

■ POSTER DISCUSSION 2

IMAGING

10:30 - 11:15 • Poster Area

CHAIR: D.R. Olsen (Norway)

Co-CHAIR: T. Nyholm (Sweden)

>	Treatment planning on phantoms and patients requires different CT-calibration curves <i>K. Fransson (Sweden), S. Johnsson</i>	PD-0079
>	Characterising image quality for the Elekta XVI cone beam CT system: a local and multi-centre analysis <i>C. Hasler (United Kingdom), V. Ganesan, A. Morgan</i>	PD-0080
>	Investigation of the image quality degradation in phase-based 4DCT data and its clinical consequences <i>A. Negri, D. Michelutti, R. Padovani, E. Moretti (Italy)</i>	PD-0081
>	Test-retest reproducibility of CT and PET imaging features extracted from tumour-bearing rats <i>O. Lorintiu (The Netherlands), S. Peeters, S. Carvalho, R. Leijenaar, E. Rios Velazquez, N. Lieuwes, L. Dubois, H. Aerts, P. Lambin</i>	PD-0082

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	ABS. NUMBER
> Impact of PET reconstruction settings for quantification and delineation of lung lesions in radiotherapy <i>I. Rausch, B. Knäusl (Austria), A. Hirtl, H. Bergmann, R. Dudczak, D. Georg</i>	PD-0083
> Effects of MRI scan position on CT image registration and target delineation for oropharynx cancer VMAT patients <i>M. McJury (United Kingdom), S. Hanvey, C. Patterson, M. Rizwanullah, M. Thomson, A. James, L.M. Tho, D. Grose, M. Glegg, J. Foster</i>	PD-0084
> Advances in MRI for elective treatment of lymph nodes and cranial nerves in head and neck cancer <i>M.E.P. Philippens (The Netherlands), J.J. Bluemink, F.A. Pameijer, C.H.J. Terhaard, C.P.J. Raaijmakers</i>	PD-0085
> Automatic segmentation of heart evaluated with multi-institution inter-observer variation <i>E. Lorenzen (Denmark), C. Brink</i>	PD-0086
> X-ray fluorescence CT for gold nanoparticles and Cisplatin <i>M. Bazalova (USA), Y. Kuang, G. Pratz, L. Xing</i>	PD-0087
■ PRESIDENTIAL SYMPOSIUM	
THE REVERSE ANGLE PERSPECTIVE	
11:45 - 12:30 • Auditorium	
CHAIR: <i>V. Valentini (Italy)</i>	
Co-CHAIR: <i>J. Bourhis (France)</i>	
11:45 > «Rapid learning health care» & «randomised trial»: are the two approaches antagonistic or complementary? SPEAKER: <i>P. Lambin (The Netherlands)</i>	SP-0088
12:05 > What is the scientific community expecting from ESTRO to build a multidisciplinary platform in Europe? SPEAKER: <i>C. van de Velde (The Netherlands)</i>	SP-0089

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■ EMMANUEL VAN DER SCHUEREN AWARD LECTURE	
QUALITY AND SAFETY IN RADIOTHERAPY	
12:30 - 13:00 • Auditorium	
CHAIR: <i>V. Valentini (Italy)</i>	
12:30 > Quality and safety in radiotherapy SPEAKER: <i>P. Scalliet (Belgium)</i>	SP-0090
■ JOINT SYMPOSIUM	
ESTRO-ECCO: ETHICS IN PROFESSIONAL LIFE	
LEARNING OBJECTIVES:	
1. To have a value-based platform to manage the relationship between science and technology on one side and the global social responsibility on the other side, in a time of limited resources	
2. To become aware of the ethical values encountered in the daily life management of a department of radiation oncology	
3. To focus on the implications of science progression and the ethical values involved in dissemination of science and that of the management of a scientific society	
14:30 - 15:45 • Auditorium	
CHAIR: <i>V. Valentini (Italy)</i>	
Co-CHAIR: <i>M. Baumann (Germany)</i>	
14:30 > Ethic values: do they belong in a museum or your daily briefcase? SPEAKER: <i>F. Botturi (Italy)</i>	SP-0091
14:48 > Ethic values in the dissemination of science SPEAKER: <i>J. Overgaard (Denmark)</i>	SP-0092
15:06 > Ethical values in managing a department SPEAKER: <i>K. Haustermans (Belgium)</i>	SP-0093
15:24 > Ethic values and scientific societies SPEAKER: <i>M. Baumann (Germany)</i>	SP-0094

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■ SYMPOSIUM

HYPOFRACTIONATION AND PARTIAL BREAST RADIOTHERAPY

LEARNING OBJECTIVES:

1. Adjustments to the number and size of fractions are not enough: inter-fraction interval, treatment volume and overall time are also clinically relevant
2. There is evidence for a strong volume effect for late adverse effects after PBRT
3. High single doses are well tolerated by the breast, and appear to be effective in reducing local relapse risk
4. Bio-effect models can be constructed to help design accelerated PBRT schedules

14:30 - 15:45 • Room 113-114CHAIR: *J.R. Yarnold (United Kingdom)*Co-CHAIR: *R. Cabrera (Spain)*

- | | | | |
|-------|---|---|---------|
| 14:30 | > | Hypofractionation and PBRT: what do we need to think about?
SPEAKER: <i>N. Somaiah (United Kingdom)</i> | SP-0095 |
| 14:48 | > | Evidence of volume effects for normal tissue and tumour responses
SPEAKER: <i>E. Van Limbergen (Belgium)</i> | SP-0096 |
| 15:06 | > | IORT update: what are the limits of total dose and volume?
SPEAKER: <i>R. Orecchia (Italy)</i> | SP-0097 |
| 15:24 | > | Bio-effect models of hypofractionation in accelerated PBRT
SPEAKER: <i>S. Bentzen (USA)</i> | SP-0098 |

■ SYMPOSIUM

**BRACHYTHERAPY BOOST OR SIB:
TREATMENT OF CHOICE FOR PROSTATE CANCER?**

LEARNING OBJECTIVES:

1. To appreciate the contribution and utility of multi-modality parametric imaging for target volume definition and image guided strategies
2. To understand the rationale, case selection and evidence for HDR brachytherapy for dose escalation

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14:30 - 15:45 • Room 115CHAIR: *V. Khoo (United Kingdom)*Co-CHAIR: *B. Pinar (Spain)*

- | | | | |
|-------|---|--|---------|
| 14:30 | > | Promises and pitfalls of functional imaging for focal dose escalation in prostate cancer
SPEAKER: <i>G. Crehange (France)</i> | SP-0099 |
| 14:55 | > | Comparison between brachytherapy and EBT with X-rays and protons. Dose distributions and peripheral doses
SPEAKER: <i>D.A. Mazal (France)</i> | SP-0100 |
| 15:20 | > | Emerging data for high risk patients
SPEAKER: <i>P. Hoskin (United Kingdom)</i> | SP-0101 |

■ LOOK INSIDE

**CUTTING EDGE TECHNOLOGY:
CAN WE DELIVER THE DOSE DISTRIBUTION WE PLAN?**

LEARNING OBJECTIVES:

1. To consider the current limitations on defining volumes and dose distributions, both technology-related and inherent
2. To consider the limitations and uncertainties on delivering the required dose distributions with current technology
3. To discuss the potential of technology developments to impact on and mitigate limitations and uncertainties
4. To compare and contrast relevant factors and issues between radiotherapy treatment modalities (external beam MV X-ray, ion beam therapy, brachytherapy)

14:30 - 15:45 • Room 117CHAIR: *D. Georg (Austria)*Co-CHAIR: *V. Hernandez (Spain)*

- | | | | |
|-------|---|--|---------|
| 14:30 | > | Limitations in delivery of the required dose distributions for MV X-ray EBRT with current and developing technology
SPEAKER: <i>D.I. Thwaites (Australia)</i> | SP-0102 |
| 14:55 | > | Ion beam therapy
SPEAKER: <i>C. Bert (Germany)</i> | SP-0103 |

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		ABS. NUMBER
15:20	> Cutting edge technology: Can we deliver the dose distribution we plan in brachytherapy? SPEAKER: <i>D. Baltas (Germany)</i>	SP-0104

■ JOINT SYMPOSIUM

ESTRO-EFOMP: SHARING INFORMATION AND COMMUNICATION IN RADIATION ONCOLOGY

LEARNING OBJECTIVES:

1. To become familiar with the state of art of Networking in Radiotherapy following an integrated approach between medical physicist and radiation oncologists in multidisciplinary approach
2. To understand how to evaluate the critical aspect of network architecture and transmission standards from the images to treatment and dosimetric verification, the state of art and future developing of radiation oncology technical framework following the IHE RO profile and DICOM standard in radiotherapy
3. To appreciate the opportunities and the risks for networking and connectivity in radiotherapy, taking into account that the International advanced computer network should be a new future scenario in radiotherapy

14:30 - 15:45 • Room 116

CHAIR: *A. Torresin (Italy)*

Co-CHAIR: *R. Garcia (France)*

14:30	> Workflow and data transfer in modern radiotherapy clinics; taking a step towards paperless network architectures SPEAKER: <i>M. Enmark (Sweden)</i>	SP-0105
14:50	> Improving standards for interoperability in radiation oncology: DICOM and IHE-RO SPEAKER: <i>B. Curran (USA)</i>	SP-0106
15:10	> Networking and connectivity in radiotherapy: opportunities and risks SPEAKER: <i>W. van der Putten (Ireland Republic of)</i>	SP-0107
15:25	> International advanced computer network for research and decision supporting software SPEAKER: <i>A. Dekker (The Netherlands)</i>	SP-0108

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■ SYMPOSIUM

RADIOTHERAPY AND THE IMMUNE SYSTEM, IMMUNOLOGICAL ASPECTS OF TREATMENT RESPONSE TO IONISING RADIATION

LEARNING OBJECTIVES:

1. To understand that radiation acts on the immune system function
2. To understand the contribution of the immune system to normal tissue toxicity
3. To understand the role of the immune system in tumor response to radiation therapy

14:30 - 15:45 • Room 120-121

CHAIR: *M.H. Barcellos-Hoff (USA)*

Co-CHAIR: *A.E. Kiltie (United Kingdom)*

14:30	> Radiation-induced changes in anti-tumor immunity SPEAKER: <i>W. McBride (USA)</i>	SP-0109
14:55	> TGF- β signalling orchestrates late renal toxicity by regulating the immune response after irradiation SPEAKER: <i>M. Scharpfenecker (The Netherlands)</i>	SP-0110
15:20	> Effects of modulated immune responses on epithelial radiation effects during fractionated irradiation SPEAKER: <i>W. Dörr (Germany)</i>	SP-0111

■ SYMPOSIUM

ADAPTIVE RADIOTHERAPY: CHANGING THE PRACTICE

LEARNING OBJECTIVES:

1. To understand the rationale of ART and clarify the clinical concept of ART
2. To understand the term ART used in a degenerate way with insight into the logistic challenges and become familiar with the terminology used to describe the ART process, to distinguish which processes belong to the disciplines of IGRT of ART
3. To be able to read and understand a flow chart for ART prescription and become familiar with dose reporting in ART
4. To understand the planning challenges of consecutive phases in ART
5. To understand the uncertainties in dose summation of consecutive plans using rigid or non-rigid image co-registration methods

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		ABS. NUMBER
14:30 - 15:45 • Room 118-119		
CHAIR: <i>B. Speleers (Belgium)</i>		
Co-CHAIR: <i>E. Fernández-Velilla (Spain)</i>		
14:30	> ART: clinical application SPEAKER: <i>N. Di Muzio (Italy)</i>	SP-0112
14:48	> ART in H&N: how it affects the practice SPEAKER: <i>W. De Neve (Belgium)</i>	SP-0113
15:06	> ART by gating SPEAKER: <i>C. Garibaldi (Italy)</i>	SP-0114
15:24	> ART in BT - adaptive image guided BT for gynecological tumors using MRI images - clinical and physics aspects SPEAKER: <i>D. Berger (Austria)</i>	SP-0115
■ POSTER DISCUSSION: 3		
PROSTATE CANCER		
14:45 - 15:30 • Poster Area		
CHAIR: <i>TBC</i>		
Co-CHAIR: <i>F. Sedlmayer (Austria)</i>		
	> High incidence of aberrant lymph node metastases on MR lymphography in prostate cancer patients <i>H.J.M. Meijer (The Netherlands), A.S. Fortuin, E. van Lin, J.J. Futterer, O.A. Debats, J.A. Witjes, J.H.A.M. Kaanders, J.O. Barentsz</i>	PD-0116
	> Choline PET-CT and diffusion-weighted MRI for nodal staging in prostate cancer at high risk for nodal metastases <i>L. Van den Bergh (Belgium), S. Joniau, E. Lerut, R. Oyen, C.M. Deroose, T. Budiharto, F. Ameye, H. Van Poppel, S. Isebaert, K. Haustermans</i>	PD-0117

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		ABS. NUMBER
	> Radioprotective effect of calcium channel blockers against late rectal bleeding in prostate cancer <i>M. Massaccesi (Italy), V. Picardi, G. Macchia, F. Deodato, C. Digesù, M. Ferro, A. Di Lallo, V. Valentini, N. Cellini, A.G. Morganti</i>	PD-0118
	> Quality of life (QoL) for prostate cancer after prostatectomy vs brachytherapy vs EBRT with a follow-up of 5 years <i>F. Guedea (Spain), P. Fernández, A. Mariño, G. Sancho, I. Herruzo, A. Hervás, M.J. Ortiz, V. Macías, J.F. Suárez, M. Ferrer</i>	PD-0119
	> Loss of bone mass in androgen-deprivation adjuvant hormonal therapy in high risk localized prostate cancer patients <i>S. Ojeda-Bruno (Spain), A. Naranjo-Hernández, M. Lloret, C. Domínguez-Cabrera, F. Francisco-Hernández, P.C. Lara</i>	PD-0120
	> Use of pre-op MRI and «3D prostate cancer maps» to improve CTV definition for post-operative radiation <i>S. Malone (Canada), J. Croke, E. Belanger, K. Malone, L. Avruch, C. Malone, C. Morash, Y. Li, B. Nyiri</i>	PD-0121
	> Neural-network-based prediction of late faecal incontinence after 3D-CRT for prostate cancer <i>S. Tomatis (Italy), M. Carrara, T. Rancati, C. Fiorino, G. Fellin, V. Vavassori, E. Cagna, G. Girelli, F. Tortoreto, R. Valdagni</i>	PD-0122
	> Androgen receptor FISH assay predicts poor survival in early human prostate cancer <i>A. Eichholz (United Kingdom), S. Merson, J. Clark, D. Brewer, P. Flohr, Z.H. Yang, J. Cuzick, G. Fisher, P. Scardino, C.S. Cooper</i>	PD-0123

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■ PROFFERED PAPERS

**CLINICAL 3: HIGH TECH AND BIOLOGICAL PERSPECTIVES
IN DIFFERENT TUMOUR SITE**

16:15 - 17:15 • Auditorium

CHAIR: J.W. Leer (*The Netherlands*)Co-CHAIR: J.L. Monroy Anton (*Spain*)

- 16:15 > Chemo-radiation in advanced stage carcinoma cervix.
A phase iii randomized trial: results of 1st interim analysis
J. Mahantshetty (India), S.K. Shrivastava, H.B. Tongaonkar,
S. Gupta, R. Engineer, R.A. Kerkar, A. Maheshwari,
S. Chopra, J. Ghosh, K.A. Dinshaw **OC-0124**
- 16:25 > Long-term outcomes of a prospective study of post-therapy
PET after chemoradiation of cervical cancer
S. Siva (Australia), S. Deb, M. Bressel, S. Gill, S. Fox, R. Hicks,
K. Narayan **OC-0125**
- 16:35 > Simultaneous integrated boost in cervix cancer:
too much uncertainty
F.G. Herrera (Switzerland), E. Delikgoz-Soykut, S. Callaway,
J.L. Soares-Rodrigues, M. Coskun, L. Porta, L. Heym, R. Moeckli,
M. Ozsahin **OC-0126**
- 16:45 > Field size reduction to involved node radiotherapy as part of
combined modality treatment is safe for aggressive NHL.
P. Poortmans (The Netherlands), M. Verhappen, J. Raemaekers,
E. Raaijmakers **OC-0127**
- 16:55 > Vestibular Schwannoma: Linac-based stereotactic radiotherapy
in 250 patients
H. Badakhshi (Germany), D. Boehmer, R. Wurm,
S. Muellner, V. Budach **OC-0128**
- 17:05 > Impact of randomized trials on population based referrals
for adjuvant radiotherapy after radical prostatectomy
H. Quon (Canada), D. Suderman, K. Guilbert, P. Lambert,
G. Mak, A. Ong, A. Chowdhury **OC-0129**

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■ PROFFERED PAPERS

CLINICAL 4: BREAST

16:15 - 17:15 • Room 113-114

CHAIR: S. Bodis (*Switzerland*)Co-CHAIR: A. Cecconi (*Italy*)

- 16:15 > 18F-FDG PET/CT for the assessment of locoregional lymph
node involvement in stage II and III breast cancer
B.B. Koolen, W.V. Vogel (The Netherlands), R.A. Valdés Olmos,
P.H.- Elkhuzen, M. Vrancken Peeters, S. Rodenhuis,
E.J.T.H. Rutgers **OC-0130**
- 16:25 > Accelerated partial breast irradiation with IMRT:
3-years interim analysis of a Phase III randomized clinical trial
L. Livi (Italy), I. Meattini, C. Saieva, D. Franceschini, F. Meacci,
F. Franzese, V. Scotti, C. De Luca Cardillo, D. Greto, G. Biti **OC-0131**
- 16:35 > Hyperfractionated radical radiotherapy in stage IIIB breast
cancer unresponsive to systemic therapy
R. Carmona-Vigo (Spain), L.A. Henríquez-Hernández, B. Pinar,
M. Lloret, P.C. Lara **OC-0132**
- 16:45 > Breast cancer prognosis is altered by TRIB3 via hypoxia sensitivity
M. Wennemers (The Netherlands), J. Bussink, F.C.G.J.
Sweep, P.N. Span **OC-0133**
- 16:55 > Local excision with or without radiotherapy in ductal carcinoma
in situ: treatment and prognosis after a recurrence
M. Donker, S. Litière, G. Werutsky, J.P. Julien, I. Fentiman,
R. Agresti, P. Rouanet, C. Tunon de Lara, E.J.T.H. Rutgers,
N. Bijker (The Netherlands) **OC-0134**
- 17:05 > Can patient reported outcome measures replace clinical
assessments in breast radiotherapy trials?
J.S. Haviland (United Kingdom), M. Sydenham, J. Mills,
P. Hopwood, J.M. Bliss, J.R. Yarnold, on behalf of the START
Trialists' Group **OC-0135**

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■ DEBATE		
THIS HOUSE BELIEVES THAT BRACHYTHERAPY IS THE BEST TECHNIQUE FOR PARTIAL BREAST IRRADIATION		
16:15 - 17:15 • Room 115		
CHAIR: <i>E. Van Limbergen (Belgium)</i>		
Co-CHAIR: <i>I. Monteiro Grillo (Portugal)</i>		
16:15	> For the motion - brachytherapy for partial breast irradiation - facts and myths SPEAKER: <i>V. Strnad (Germany)</i>	SP-0136
16:35	> Against the motion SPEAKER: <i>H. Bartelink (The Netherlands)</i>	SP-0137
16:55	> Conclusions for the motion - brachytherapy is the best technique for partial breast irradiation SPEAKER: <i>C. Polgár (Hungary)</i>	SP-0138
17:05	> Conclusions against the motion SPEAKER: <i>C. Bourgier (France)</i>	SP-0139

■ DEBATE
THIS HOUSE BELIEVES THAT PROCESS-BASED QUALITY MANAGEMENT REPLACES TODAY'S QUALITY CONTROLS

LEARNING OBJECTIVES:

1. Identify the strengths and weaknesses with existing systems of Quality Assurance/Control
2. Describe common process-based quality management tools
3. Discuss pros and cons of process-based quality management tools in radiotherapy
4. Identify process-based quality management tools that can be useful in radiotherapy

16:15 - 17:15 • Room 117CHAIR: *C. Ceberg (Sweden)*Co-CHAIR: *M. Beltran (Spain)*

16:15	> For the motion SPEAKER: <i>B. Thomadsen (USA)</i>	SP-0140
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		ABS. NUMBER
16:35	> Against the motion SPEAKER: <i>E. Aird (United Kingdom)</i>	SP-0141
■ PROFFERED PAPERS		
PHYSICS 4: ADAPTIVE RADIOTHERAPY		
16:15 - 17:15 • Room 116		
CHAIR: <i>B. Heijman (The Netherlands)</i>		
Co-CHAIR: <i>C. Picon (Spain)</i>		
16:15	> A dose accumulation study of adaptive plan selection vs. re-optimisation in bladder radiotherapy <i>A. Vestergaard (Denmark), J. Søndergaard, L.P. Muren, U.V. Elstrøm, M. Høyer, J.B. Petersen</i>	OC-0142
16:25	> Direct dose deformation for intensity-modulated radiotherapy using a multi-leaf collimator (MLC) <i>R. Topolnjak (The Netherlands), E.J. Rijkhorst, J. de Boer, R. Bohoslavsky, A. Mencarelli, M. van Herk, J.J. Sonke</i>	OC-0143
16:35	> Automated decision rules for adaptive RT to reduce differential motion of multiple anatomical regions. <i>F. Koetsveld (The Netherlands), J.J. Sonke, S. van Kranen, E.E. Schaake, S. van Beek, P. Remeijer</i>	OC-0144
16:45	> CBCT Adaptive protocol to manage the interfraction displacement of seminal vesicles <i>L. Vicenzi, G. Mantello (Italy), F. Cucciarelli, F. Fenu, S. Costantini, L. Fabbietti, M. Giacometti, M. Valenti, M. Cardinali, S. Maggi</i>	OC-0145
16:55	> Adaptive radiotherapy for primary lung tumours and mediastinal lymph nodes <i>E.E. Schaake (The Netherlands), J.S.A. Belderbos, W.A. Buikhuisen, J.J. Sonke</i>	OC-0146
17:05	> Clinical implementation of the plan-of-the-day concept for IMRT of cervical cancer <i>M.S. Hoogeman (The Netherlands), S. Quint, M.L. Bondar, J.W. Mens, G. Dhawtal, B.J. Heijmen</i>	OC-0147

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■ PROFFERED PAPERS		
RADIOBIOLOGY 2: HEAD AND NECK		
16:15 - 17:15 • Room 120-121		
CHAIR: <i>P. Span (The Netherlands)</i>		
Co-CHAIR: <i>M. Pinkawa (Germany)</i>		
16:15	> Head and neck cancer recurrence density in relation to FDG-PET and clinical IMRT target volumes <i>A. Due (Denmark), I.R. Vogelius, M.C. Aznar, S.M. Bentzen, A.K. Berthelsen, S.S. Korreman, C.A. Kristensen, L. Specht</i>	OC-0148
16:25	> HPV, smoking and RT-outcome in advanced OPC treated without chemotherapy - analysis of DAHANCA patients <i>P. Lassen (Denmark), H. Primdahl, J. Johansen, C.A. Kristensen, E. Andersen, L.J. Andersen, J.F. Evensen, J. Overgaard</i>	OC-0149
16:35	> Predictive value of CAIX expression and staining pattern in patients treated in the phase III randomised ARCON trial <i>S. Rademakers (The Netherlands), I. Hoogsteen, P. Rijken, C. Terhaard, P. Doornaert, J. Langendijk, P. van den Ende, A. van der Kogel, J. Bussink, J. Kaanders</i>	OC-0150
16:45	> P16 in head and neck cancer: a marker of impaired HIF1a function and decreased hypoxia tolerance? <i>E. Van Limbergen (Belgium), R. Dok, E. Hauben, S. Nuyts</i>	OC-0151
16:55	> Imaging of EGFR with USPECT in head and neck cancer xenografts with 111-In-labeled Cetuximab-F(ab') ₂ <i>L.K. van Dijk (The Netherlands), G.M. Franssen, H. Stegeman, W.J.G. Oyen, J.H.A.M. Kaanders, O.C. Boerman, J. Bussink</i>	OC-0152
17:05	> EGFR-inhibition and radiotherapy in head and neck cancer xenografts: hypoxia, proliferation and tumor growth delay <i>H. Stegeman (The Netherlands), J.H.A.M. Kaanders, A.J. van der Kogel, M. Iida, D.L. Wheeler, P.N. Span, J. Bussink</i>	OC-0153

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		ABS. NUMBER
■ DEBATE		
THIS HOUSE BELIEVES THAT DAILY VERIFICATION AND IMAGE ANALYSIS IS SOLELY THE RESPONSIBILITY OF THE RADIATION ONCOLOGIST		
LEARNING OBJECTIVES:		
1. Identifying the proposed dilemmas of responsibilities, when implementing (new) position verification procedures		
2. Insight in arguments around position verification responsibilities, including cost effectiveness		
16:15 - 17:15 • Room 118-119		
CHAIR: <i>M. Mast (The Netherlands)</i>		
Co-CHAIR: <i>E. Lartigau (France)</i>		
Co-CHAIR: <i>R. Moeckli (Switzerland)</i>		
16:15	> For the motion SPEAKER: <i>J. Kuipers (The Netherlands)</i>	SP-0154
16:35	> Against the motion SPEAKER: <i>A. Osztavics (Austria)</i>	SP-0155
■ POSTER DISCUSSION: 4		
LUNG AND STEREOTACTIC		
16:15 - 17:00 • Poster Area		
CHAIR: <i>M. Scorsetti (Italy)</i>		
Co-CHAIR: <i>G. Kantor (France)</i>		
> Stereotactic body radiotherapy using volumetric modulated arc therapy in lung metastatic patients <i>P. Navarria (Italy), A.M. Ascolese, E. Clerici, S. Castiglioni, F. Alongi, A. Tozzi, S. Pentimalli, S. Arcangeli, P. Mancosu, M. Scorsetti</i>		
> Dose coverage in image guided SBRT for NSCLC using Tomotherapy <i>L. Kerkmeijer (The Netherlands), V. Althof, A. Minken, R. Steenberg, E. Vonk</i>		
> Functional promoter rs2868371 variant of HSPB1 predicts lung cancer survival <i>T. Xu (USA), Q.Y. Wei, J.L. Lopez Guerra, Y. Zhuang, L.E. Wang, R. Mohan, D. Gomez, S. Lin, H.H. Zhou, Z.X. Liao</i>		

Thursday 10 May 2012

- | | ABS. NUMBER |
|--|-------------|
| > Outcome of early stage non-small cell lung cancer treated with Hypofractionated SIB-IMRT
<i>B. Li (China), Q. Wang, Z. Wang, T.A.O. Zhou, Y.A.N. Yi, H. Li, H.E.Y.I. Gong, Y. Wei</i> | PD-0159 |
| > Hypofractionated stereotactic radiation therapy followed by systemic treatment for Glioblastoma multiforme
<i>M. Galeandro (Italy), P. Ciammella, N. D'Abbiere, A. Botti, E. Donini, F. Vigo, A. Podgornij, M. Iori, C. Iotti</i> | PD-0160 |
| > Stereotactic brachytherapy with temporary iodine-125 seeds in patients with WHO grade II glioma
<i>J. Watson (Germany), S.B. Schwarz, M. Niyazi, U. Ganswindt, J.C. Tonn, F.W. Kreth, C. Belka</i> | PD-0161 |
| > Incidence of isolated nodal failure in NSCLC patients included in a prospective study of the value of PET-CT
<i>M. Kolodziejczyk (Poland), K. Bujko, L. Kepka</i> | PD-0162 |
| > Spine radiosurgery: a dosimetric analysis in 124 patients who received 18 Gy
<i>S. Schipani (United Kingdom), W. Wen, J.Y. Jin, J.K. Kim, S. Ryu</i> | PD-0163 |

■ PROFFERED PAPERS

HIGHLIGHTS OF PROFFERED PAPERS

17:30 - 18:30 • Auditorium

CHAIR: D. Hollywood (Ireland Republic of)

Co-CHAIR: N. Jornet (Spain)

- | | | |
|-------|---|---------|
| 17:30 | > Metastasectomy not better than SABR for lung oligometastases in a single institution cohort (n=110)
<i>J. Widder (The Netherlands), T.J. Klinkenberg, J.F. Ubbels, E.M. Wiegman, H.J.M. Groen, J.A. Langendijk</i> | OC-0164 |
| 17:40 | > Development of a practical prediction model for overall survival from stage III lung cancer
<i>P. Lambin, C. Oberije (The Netherlands), R. Houben, D. De Ruyscher, G. Nalbantov</i> | OC-0165 |

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- | | ABS. NUMBER | |
|-------|---|---------|
| 17:50 | > An initial experience of dynamic tumor tracking irradiation with real-time monitoring using vero4DRT (MHI-TM2000)
<i>Y. Matsuo (Japan), A. Sawada, N. Ueki, Y. Miyabe, M. Nakamura, S. Yano, S. Kaneko, T. Mizowaki, M. Kokubo, M. Hiraoka</i> | OC-0166 |
| 18:00 | > Stem cell sparing radiotherapy of head and neck cancer to preserve salivary gland function
<i>P. van Luijk (The Netherlands), S. Pringle, J.O. Deasy, V.V. Moiseenko, H. Faber, H.P. van der Laan, S. Brandenburg, J.A. Langendijk, J. Wu, R.P. Coppes</i> | OC-0167 |
| 18:10 | > On-line digital tomosynthesis for patient stability monitoring during VMAT delivery for SABR of lung cancer
<i>M. van Herk (The Netherlands), A. van der Reijden, M. Rossi, J.J. Sonke</i> | OC-0168 |

Friday 11 May 2012

Abs. NUMBER

■ TEACHING LECTURE

CURRENT PRACTICE AND MOVING POINTS: PAEDIATRICS

08:00 - 08:40 • Auditorium

CHAIR: F. Saran (United Kingdom)

08:00 > Current practice and moving points: paediatrics
SPEAKER: K. Dieckmann (Austria)

SP-0169

■ TEACHING LECTURE

DECISION SUPPORT SYSTEMS: REQUIREMENTS, IMPLEMENTATION AND EVALUATION

08:00 - 08:40 • Room 115

CHAIR: P. Poortmans (The Netherlands)

08:00 > Decision support systems: requirements, implementation
and evaluation
SPEAKER: R. van Stiphout (The Netherlands)

SP-0170

■ TEACHING LECTURE

UNCERTAINTIES IN FUNCTIONAL IMAGING AND THEIR IMPACT ON RADIOTHERAPY TARGET DEFINITION

08:00 - 08:40 • Room 117

CHAIR: G. Liney (United Kingdom)

08:00 > Uncertainties in functional imaging and their impact
on radiotherapy target definition
SPEAKER: R. Jeraj (Slovenia)

SP-0171

■ TEACHING LECTURE

STREAMLINING IMRT QA

08:00 - 08:40 • Room 116

CHAIR: M. Tomsej (Belgium)

08:00 > Streamlining IMRT QA
SPEAKER: D. Low (USA)

SP-0172

Friday 11 May 2012

Abs. NUMBER

■ TEACHING LECTURE

CLINICAL RELEVANCE OF TUMOUR MICRO-ENVIRONMENT AND METABOLISM

08:00 - 08:40 • Room 120-121

CHAIR: B. Wouters (Canada)

08:00 > Clinical relevance of tumour micro-environment and metabolism
SPEAKER: W. Mueller-Klieser (Germany)

SP-0173

■ TEACHING LECTURE

INCREASED NUMBER OF ELDERLY CANCER PATIENTS: GENERAL OVERVIEW

08:00 - 08:40 • Room 118-119

CHAIR: H. McNair (United Kingdom)

08:00 > Increased number of elderly patients with cancer:
a general overview
SPEAKER: V. Lemmens (The Netherlands)

SP-0174

■ TEACHING LECTURE

HOW TO DESIGN YOUR COMPARATIVE CLINICAL TRIAL?

08:00 - 08:40 • Room 122-123

CHAIR: TBC

08:00 > How to design your comparative clinical trial?
SPEAKER: L. Collette (Belgium)

SP-0175

■ JOINT SYMPOSIUM

ESTRO-PROS: COMPLEX MULTI-MODEL APPROACHES: PAEDIATRICS

LEARNING OBJECTIVES:

1. To update areas of research in paediatric radiation oncology
2. To learn how particle therapy is becoming more relevant in the treatment of some paediatric patients
3. To understand the treatment approaches in medulloblastoma regarding volume, dose and biology
4. To review the use of radiotherapy in the treatment of neuroblastoma

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08:45 - 10:00 • Auditorium		
CHAIR: <i>J. Giralt (Spain)</i>		
Co-CHAIR: <i>TBC</i>		
08:45	> New perspectives with protons and other particles SPEAKER: <i>B. Timmermann (Germany)</i>	SP-0176
09:03	> New knowledge on late effects: second primary cancers, cardiac and cerebrovascular diseases SPEAKER: <i>N. Haddy (France)</i>	SP-0177
09:22	> Update on the current European management of medulloblastoma SPEAKER: <i>F. Saran (United Kingdom)</i>	SP-0178
09:41	> Update on neuroblastoma SPEAKER: <i>L. Gandola (Italy)</i>	SP-0179

■ JOINT SYMPOSIUM

ESTRO-ESMO-ESSO: YOUNG ADULT PATIENTS: THE MAXIMUM DELIVERABLE OR THE MINIMUM EFFECTIVE TREATMENT

LEARNING OBJECTIVES:

1. To perceive the peculiarity of tumor behavior in young adult patients; the Hodgkin, breast and rectal cancer model
2. To understand the meaning of aggressive treatment in young adult patients; the Hodgkin, breast and rectal cancer model
3. To evaluate the long term cost of aggressive treatment in young adult patients; the Hodgkin, breast and rectal cancer model

08:45 - 10:00 • Room 113-114

CHAIR: *V. Valentini (Italy)*

Co-CHAIR: *P. Naredi (Sweden)*

Co-CHAIR: *M. Piccart (Belgium)*

08:45	> Combined treatments in Hodgkin disease: the RT optimal dose SPEAKER: <i>L. Specht (Denmark)</i>	SP-0180
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		ABS. NUMBER
09:10	> Breast cancer in young women: adjuvant therapy and fertility considerations SPEAKER: <i>H.A. Azim Jr (Belgium)</i>	SP-0181
09:35	> Combined treatment rectal: young adult patients SPEAKER: <i>H. Rutten (The Netherlands)</i>	SP-0182

■ SYMPOSIUM

EMERGING IMAGING TECHNOLOGIES: APPLICATIONS IN RADIATION ONCOLOGY

LEARNING OBJECTIVES:

1. To become familiar with recent technical and biological developments in medical imaging
2. To become familiar with challenges and opportunities for the application of new imaging developments in radiation oncology

08:45 - 10:00 • Room 115

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

Co-CHAIR: *M. Lloret (Spain)*

08:45	> Radiomics: extracting advanced features from medical imaging SPEAKER: <i>H. Aerts (The Netherlands)</i>	SP-0183
09:03	> New tracers SPEAKER: <i>I. Carrió Gasset (Spain)</i>	SP-0184
09:21	> Dual energy CT: current clinical status. SPEAKER: <i>J. Wildberger (The Netherlands)</i>	SP-0185
09:39	> Hybrid imaging with PET and MRI SPEAKER: <i>G. von Schulthess (Switzerland)</i>	SP-0186

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		Abs. NUMBER
■ PROFFERED PAPERS		
PHYSICS 5: IMAGING FOR TREATMENT PREPARATION AND OUTCOME ASSESSMENT		
08:45 - 10:00 • Room 117		
CHAIR: <i>R. Jeraj (USA)</i>		
Co-CHAIR: <i>J. Marruecos Querol (Spain)</i>		
08:45	> Impact of tumor delineation errors on outcome prediction based on DCE-MRI of cervical cancer patients receiving RT <i>E. Andersen (Norway), K.H. Hole, K.V. Lund, G.B. Kristensen, H. Lyng, E. Malinen</i>	OC-0187
08:55	> GTV reduction on MRI during radiotherapy for oropharyngeal cancer overestimates the reduction of the CTV <i>O. Hamming-Vrieze (The Netherlands), S.R. van Kranen, C.A.H. Lange, M.W.M. van den Brekel, C.R.N. Rasch, J.J. Sonke</i>	OC-0188
09:05	> Temporal changes in DCE-MRI parameters during treatment of locally advanced cervical cancer. <i>J.F. Kallehauge (Denmark), C. Nomden, C.S. Arteaga de Castro, K. Tanderup, J.C. Lindegaard, R. Tersteeg, J. Roesink, I.M. Jürgenliemk-Schulz, U. van der Heide</i>	OC-0189
09:15	> Visualizing treatment resistant regions within the tumor using sequential DWI: clinical validation <i>H. Van Herck, M. Lambrecht (Belgium), V. Vandecaveye, F. De Keyzer, P. Slagmolen, P. Suetens, R. Hermans, S. Nuyts</i>	OC-0190
09:25	> Parotid deformation during IMRT for head-neck cancer correlates with clinical and dosimetry information <i>S. Broggi (Italy), C. Fiorino, E. Scalco, M.L. Belli, G. Sanguineti, N. Dinapoli, V. Valentini, N. Di Muzio, G. Rizzo, G.M. Cattaneo</i>	OC-0191
09:35	> MRlgRT: characterization of the composite MR image distortion field associated with organ motion <i>T. Stanescu (Canada), D.A. Jaffray</i>	OC-0192
09:45	> Auto-segmentation of bone in MRI-only based radiotherapy using ultra short echo time <i>J.M. Edmund (Denmark), H.M. Kjer, R.H. Hansen</i>	OC-0193

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■ SYMPOSIUM		
DOSE ASSESSMENT DURING TREATMENT: TOWARDS GREATER CONTROL OF THE DOSE DELIVERED TO THE PATIENT		
LEARNING OBJECTIVES:		
1. To understand the clinical importance of dose assessment during the treatment		
2. To have an overview the state of art in methods to assess the dose delivered to the patient		
3. To discuss the pros and cons of different approaches to reconstruct the delivered dose		
08:45 - 10:00 • Room 116		
CHAIR: <i>N. Jornet (Spain)</i>		
Co-CHAIR: <i>P. Galan Montenegro (Spain)</i>		
08:45	> Closing the loop of radiation therapy: dose reconstruction using dynamic log files and CBCT SPEAKER: <i>L. Xing (USA)</i>	SP-0194
09:03	> Dose reconstruction using EPID and CBCT SPEAKER: <i>S. Nijsten (The Netherlands)</i>	SP-0195
09:21	> Dose reconstruction in tomotherapy SPEAKER: <i>R. Moeckli (Switzerland)</i>	SP-0196
09:39	> Implantable MOSFET dosimeters SPEAKER: <i>S. Beddar (USA)</i>	SP-0197
■ SYMPOSIUM		
TUMOUR MICROENVIRONMENT: NOVEL BIOLOGY AND NOVEL TARGETS		
LEARNING OBJECTIVES:		
1. To understand what effects oncogenic signalling inhibition can have on the tumor microenvironment and radiation sensitivity		
2. To understand the effects of hypoxia on signalling pathways and epigenetic regulation of tumor cell behaviour		
3. To understand how circulating bone marrow cells play a role in the radiosensitivity of tumors		
08:45 - 10:00 • Room 120-121		
CHAIR: <i>J. Kaanders (The Netherlands)</i>		
Co-CHAIR: <i>R. Bristow (Canada)</i>		
08:45	> Altering the tumor microenvironment to improve radiation therapy SPEAKER: <i>R.J. Muschel (United Kingdom)</i>	SP-0198

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		Abs. NUMBER
09:10	> Novel mechanisms of oxygen sensing and adaptation to hypoxic stress SPEAKER: <i>B. Wouters (Canada)</i>	SP-0199
09:35	> Targeting vasculogenesis to improve radiation response SPEAKER: <i>M. Brown (USA)</i>	SP-0200

■ SYMPOSIUM

RADIOTHERAPY IN ELDERLY: WHERE ARE WE AIMING FOR IN THE FUTURE

LEARNING OBJECTIVES:

1. To understand that in the next future the number of elderly (and frail) cancer patients referred for radiotherapy will strongly increase
2. To improve radiotherapy protocols and communication approach with elderly cancer patients emphasizing the differences with the other patients
3. To investigate on the different modalities and different arrangements of whom we need in treating elderly cancer patients with radiotherapy, due to the particular features of these patients

08:45 - 10:00 • Room 118-119

CHAIR: *D. Pasini (Italy)*Co-CHAIR: *M. Arnalte Olloquequi (Spain)*

08:45	> Elderly with cancer: is it necessary to change the radiotherapy protocol? SPEAKER: <i>H. Struikmans (The Netherlands)</i>	SP-0201
09:10	> What elderly cancer patients want to know? Differences among elderly and young patients SPEAKER: <i>F. Cellini (Italy)</i>	SP-0202
09:35	> Guidelines to treat patients with orthopaedic prostheses SPEAKER: <i>N. Van Wieringen (The Netherlands)</i>	SP-0203

■ SYMPOSIUM

ONCOLOGY SAFETY: LEARNING FROM EXPERIENCE

08:45 - 10:00 • Room 122-123

CHAIR: *M. Coffey (Ireland Republic of)*Co-CHAIR: *J Craven-Bartle (Spain)*

08:45	> Physics perspective on incidents SPEAKER: <i>T. Knöös (Sweden)</i>	SP-0204
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Friday 11 May 2012

		Abs. NUMBER
09:00	> Radiation oncologist's perspective on incidents SPEAKER: <i>J. Cosset (France)</i>	SP-0205
09:15	> How to improve safety and quality of oncological surgery? SPEAKER: <i>M. Dahan (France)</i>	SP-0206
09:30	> Incidents in medical oncology: management and clinical impact SPEAKER: <i>P. Aftimos (Belgium)</i>	SP-0207
09:45	> Discussion	

■ POSTER DISCUSSION: 5

MISCELLANEOUS

09:00 - 09:45 • Poster Area

CHAIR: *C. Aristei (Italy)*Co-CHAIR: *TBC*

- | | |
|---|---------|
| > Reirradiation with/without temozolomide results in a median survival of 11 months in patients with recurrent glioma
<i>I. Compter (The Netherlands), R.M.A. Houben, J.J. Jager, S. de Kunder, G. Bosmans, M.H.M.E. Anten, B.G. Baumert</i> | PD-0208 |
| > Pediatric intramedullary spinal cord astrocytoma management: A tertiary care center's experience
<i>Z.D. Guss (United Kingdom), S. Moningi, S. Batra, G.I. Jallo, K.J. Cohen, M. Wharam, S.A. Terezakis</i> | PD-0209 |
| > Adjuvant radiotherapy improves local control and survival in patients with uterine leiomyosarcoma
<i>K. Han, P. Wong (Canada), J. Sykes, C. Catton, S. Laframboise, A. Fyles, L. Manchul, W. Levin, M. Milosevic</i> | PD-0210 |
| > IMRT-SIB in brain oligometastases: phase i study (ISIDE BM1) final results
<i>M. Ferro (Italy), M. Massacesi, F. Deodato, V. Picardi, S. Cilla, S. Mignogna, G. Macchia, C. Digesù, V. Valentini, A.G. Morganti</i> | PD-0211 |
| > Survival after PET/CT planned concomitant boost (IMRT) to lymph node metastasis in patients with cervical cancer
<i>H. Hansen (Denmark), S. Engelholm, P. Munck af Rosenschold, S. Lassen, S.A. Engelholm</i> | PD-0212 |

Friday 11 May 2012

	ABS. NUMBER
> Retro-EMBRACE: A multicentre retrospective study of Image Guided Adaptive Brachytherapy in cervical cancer <i>A.E. Sturdza (Austria), L.U. Fokdal, J.C. Lindegaard, K. Tanderup, C. Kirisits, R. Pötter, G. RetroEMBRACE study group</i>	PD-0213
> Stem cells may not contribute to radioresistance of glioblastoma multiforme <i>M. Kase (Estonia), M. Vardja, K. Niinepuu, S. Kase, A. Minajeva, T. Asser, J. Jaal</i>	PD-0214
> A clinical comparison between accelerated IMRT versus standard treatment on 446 breast cancer patients <i>C. Digesù (Italy), G. Macchia, F. Deodato, S. Cilla, M. Massaccesi, M. Borriello, L. Di Lullo, F. Pacelli, V. Valentini, A.G. Morganti</i>	PD-0215
> Long term results of a randomized study of IORT versus external beam boost in early breast cancer patients <i>A. Ciabattini (Italy), S. Drago, G.B. Grassi, A. De Gregorio, F. Felicioni, A. Petrucci, R. Consorti, M.A. Mirri</i>	PD-0216

■ PROFFERED PAPERS

SELECTED RANDOMISED TRIALS

10:30 - 11:45 • Auditorium

CHAIR: *J. Bourhis (France)*

Co-CHAIR: *D. Hollywood (Ireland Republic of)*

10:30	> Impact of ARCON on outcome in patients with laryngeal cancer and pre-irradiation anemia: a phase III trial analysis <i>G. Janssens (The Netherlands), C.H. Terhaard, P.A. Doornaert, H.P. Bijl, P. van den Ende, A. Chin, A.J. van der Kogel, P.N. Span, J.H. Kaanders</i>	OC-0217
10:45	> Acute toxicity of the randomized phase III Dutch Hypofractionation Trial (HYPRO) for prostate cancer <i>S. Aluwini (The Netherlands), F. Pos, E. van Lin, E. Schimmel, A. Krol, P. van der Toorn, H. de Jager, M. Dirkx, W. Ghidry, L. Incrocci</i>	OC-0218

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	ABS. NUMBER	
11:00	> The MRC CR07 trial NCIC CO16 trial after a median follow up of 8 years <i>D. Sebag-Montefiore (United Kingdom), R. Steele, J. Monson, J. Couture, C. de Metz, C. Pugh, L. Nichols, L.C. Thompson, P. Quirke</i>	OC-0219
11:15	> Chemoradiotherapy vs Bioradiotherapy for Larynx Preservation: a GORTEC Randomized Trial (TREMPLIN) <i>Y. Pointreau (France), F. Rolland, M. Alfonsi, A. Baudoux, C. Sire, D. de Raucourt, O. Malard, C. Tuchais, E. Blot, J.L. Lefebvre</i>	OC-0220

■ PROFFERED PAPERS

PHYSICS 6: DOSIMETRY CHALLENGES AND NEW DETECTORS

10:30 - 11:30 • Room 117

CHAIR: *S. Beddar (USA)*

Co-CHAIR: *A. Lopez Medina (Spain)*

10:30	> Development and application of a novel multi-point plastic scintillation detector for radiation therapy. <i>F. Therriault-Proulx (USA), L. Archambault, L. Beaulieu, S. Beddar</i>	OC-0221
10:40	> A 2D beam-quality specifier for flattening filter free beams <i>M. Dalaryd (Sweden), C. Ceberg, T. Knöös</i>	OC-0222
10:50	> Gel dosimetry for the clinic: a new system utilizing CT read-out <i>M. Hilts (Canada), H. Johnston, J. Carrick, A. Jirasek</i>	OC-0223
11:00	> High resolution 2D dosimetry using long scintillating fibers and tomographic reconstruction <i>M. Goulet (Canada), L. Archambault, L. Beaulieu, L. Gingras</i>	OC-0224
11:10	> Low energy photon dosimetry using plastic scintillation detectors <i>F. Lessard (Canada), F. Therriault-Proulx, P. Després, L. Archambault, S. Beddar, L. Beaulieu</i>	OC-0225

Friday 11 May 2012

		ABS. NUMBER
11:20	> Approaching pulse-resolved, non-perturbing dose verification of dynamic radiotherapy <i>A.R. Beierholm (Denmark), S.M.S. Damkjær, C.F. Behrens, C.E. Andersen</i>	OC-0226

■ PROFFERED PAPERS

PHYSICS 7: IMPLICATIONS OF IMAGE QUALITY ON TREATMENT PLANNING AND FOLLOW-UP

10:30 - 11:30 • Room 116

CHAIR: *M. Stock (Austria)*Co-CHAIR: *M. Ribas Morales (Spain)*

10:30	> MRI-based planning for one-stop-shop irradiation of vertebral metastases: a feasibility study <i>E.J.L. Brunenberg (The Netherlands), J.M.A.M. Kusters, P.G.M. van Kollenburg, R.J.W. Louwe, P.M. Braam</i>	OC-0227
10:40	> The impact of CT artifacts from metallic hip prostheses on the calculated dose in prostate cancer radiotherapy <i>L. Matulewicz (Poland), K. Slosarek</i>	OC-0228
10:50	> Effect of dental filling on head and neck RapidArc treatment: clinical challenges and solution <i>N. Mail (Saudi Arabia), Y. AlBarakati, M.A. Khan, F. Saeedi, N. Safadi, S. Al-Ghamdi, A. Shabra, A. Saoudi</i>	OC-0229
11:00	> CBCT image quality improved by scatter subtraction calculated by Monte Carlo simulations <i>R. Thing (Denmark), E. Mainegra-Hing, G. Wells, I. Kawrakow, C. Brink</i>	OC-0230
11:10	> Megavoltage x-ray scatter correction for simultaneous cone-beam CT imaging during VMAT delivery <i>C.J. Boylan (United Kingdom), T.E. Marchant, J. Stratford, J. Rodgers, J. Malik, A. Choudhury, R.K. Shrimali, C.G. Rowbottom</i>	OC-0231

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		ABS. NUMBER
11:20	> Cone-beam CT - based radiotherapy planning of head and neck cancer <i>U.V. Elstrøm (Denmark), S.K. Olsen, B.A. Wysocka, L.P. Muren, J.B.B. Petersen, C. Grau</i>	OC-0232

■ PROFFERED PAPERS

RTT 2: POSITION VERIFICATION

10:30 - 11:30 • Room 118-119

CHAIR: *R. Harris (United Kingdom)*Co-CHAIR: *TBC*

10:30	> Radiation technologist led image guided radiotherapy - is it safe and achievable for lung SBRT? <i>A. Needham (United Kingdom), H. Summers, D.J.R. Sykes, J. Lilley, D.A.M Henry, D.K.N Franks</i>	OC-0233
10:40	> IGRT data to evaluate set up accuracy of the immobilization systems <i>L. Balardi (Italy), G. Mantello, S. Costantini, F. Fenu, L. Vicenzi, F. Cucciarelli, M. Montisci, R. Righetto, M. Valenti, M. Cardinali</i>	OC-0234
10:50	> Inter and intrafraction variations of breathing motion and comparison between 3D and 4D setup corrections using CBCT <i>F. van den Boomen (The Netherlands), M. Bierings, D. Schuring</i>	OC-0235
11:00	> Set-up accuracy and intra-fractional motion in VMAT prostate treatments <i>A. Tini (Switzerland), A. Leong, S. Lang, M. Kovacs, C. Winter, C. Oehler, D. Zwahlen</i>	OC-0236
11:10	> Position variability of the larynx during radiotherapy of stage 1/2 laryngeal cancer <i>M. Buijs (The Netherlands), P. Remeijer, S. Ali</i>	OC-0237
11:20	> Evaluation the effectiveness of immobilization systems by daily megavoltage computed tomography in Tomotherapy <i>K. Cheng (Hong Kong (SAR) China), V. Wu</i>	OC-0238

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	ABS. NUMBER
■ POSTER DISCUSSION: 6 NEW TECHNOLOGIES AND TECHNIQUES	
10:30 - 11:15 • Poster Area	
CHAIR: TBC	
Co-CHAIR: C. Garibaldi (Italy)	
> Pre-clinical implementation of a small animal image-guided irradiator <i>A. Gasparini (The Netherlands), M.C. de Gooijer, H. te Poele, F. Stewart, O. van Tellingen, J.J. Sonke</i>	PD-0239
> Concept and Monte Carlo evaluation of a novel 2d binary collimator for fast rotational IMRT <i>G. Altenstein (Germany), S. Nill, J. Heller, O. Heid, U. Oelfke</i>	PD-0240
> Beam characteristics for MR-linac; measurements and Monte Carlo simulations <i>K. Smit (The Netherlands), S. Hissoiny, J.J. Lagendijk, B.W. Raaymakers</i>	PD-0241
> Boosting rectal cancer using the MRI accelerator: impact of transverse 1.5 T magnetic field on IMRT <i>J.J.E. Kleijnen (The Netherlands), B. van Asselen, M. Intven, G.H. Bol, M. van Vulpen, J.J.W. Lagendijk, O. Reerink, B.W. Raaymakers</i>	PD-0242
> Treatment plan quality of IMRT and VMAT with and without flattening filter - Comparison using Pareto optimal fronts <i>W. Lechner (Austria), G. Kragl, D. Georg</i>	PD-0243
> Challenges in developing radiotherapy planning protocol for future UK stereotactic liver radiotherapy trials <i>I. Blasiak-Wal (United Kingdom), H.A. McNair, V.N. Hansen, M.A. Hawkins</i>	PD-0244
> Patient QA for single high dose rotational treatments <i>D. Mateus (Portugal), S. Vieira, M. Cardoso, M. Rodrigues, A. Soares, E. Moser, N. Pimentel, C. Greco, J. Stroom</i>	PD-0245

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	ABS. NUMBER
> Comprehensive calculative based IMRT QA <i>P. Balter (USA), J. Ohrt, L. Court, M. Gillin</i>	PD-0246
> Impact of transition from 3D-conformal to volumetric modulated arc therapy for high-grade gliomas <i>S. Moller (Denmark), P. Munck af Rosenschold, N.P. Brodin, S. Engelholm, L. Ohlhues, S.A. Engelholm</i>	PD-0247
> Are medical physicists the weakest link? Specific software and training to improve the quality of rotational IMRT. <i>O. De Hertogh (Belgium), R. Viard, B. Germain, Y. Boukour</i>	PD-0248
■ CLAUDIUS REGAUD AWARD LECTURE	
RADIATION ONCOLOGY FUTURE - INDIVIDUALIZATION BY INTEGRATION OF BIOLOGY AND HIGH TECHNOLOGY	
11:45 - 12:45 • Auditorium	
CHAIR: V. Valentini (Italy)	
11:45 > Radiation oncology future - individualization by integration of biology and high technology SPEAKER: M. Baumann (Germany)	SP-0249
■ SYMPOSIUM	
ELDERLY PATIENTS TREATMENT: STANDARDS VS. FEASIBILITY (1)	
14:30 - 15:45 • Auditorium	
CHAIR: J. Bourhis (France)	
Co-CHAIR: K. Haustermans (Belgium)	
14:30 > The elderly tsunami SPEAKER: J. Borras (Spain)	SP-0250
14:48 > Importance of age and co-morbidity for the outcome of radiotherapy in head and neck cancer: A population based study SPEAKER: C.R. Boeje (Denmark)	SP-0251
15:07 > The limits in delivery chemotherapy in the elderly: the breast model SPEAKER: L. Biganzoli (Italy)	SP-0252

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		ABS. NUMBER
15:26	> Comprehensive assessment in elderly patients with cancer SPEAKER: <i>R. Bernabei (Italy)</i>	SP-0253

■ JOINT SYMPOSIUM

ESTRO-CARO: BONE METASTASIS TREATMENT IN ELDERLY PATIENTS

LEARNING OBJECTIVES:

1. To investigate the benefits and toxicities in the radiation treatment of bone metastases in elderly patients
2. To learn about cost effectiveness in radiotherapy trials on bone metastases
3. To discuss the role of RT for the management of bone metastases compared to Radiopharmaceuticals and Bisphosphonates in the elderly

14:30 - 15:45 • Room 113-114

CHAIR: *D. Hollywood (Ireland, Republic of)*

Co-CHAIR: *A. Bezjak (Canada)*

14:30	> The added challenges of bone metastasis treatment in elderly patients SPEAKER: <i>E. Chow (Canada)</i>	SP-0254
14:55	> Cost effectiveness in bone metastases treatment SPEAKER: <i>Y. van der Linden (The Netherlands)</i>	SP-0255
15:20	> Bone metastases: radiotherapy (RT), bone seeking radiopharmaceuticals (BSRs) and Bisphosphonates (Bps) SPEAKER: <i>V. Vassiliou (Cyprus)</i>	SP-0256

■ SYMPOSIUM

EMERGING IMAGING TECHNOLOGIES: HOW FUNCTIONAL IMAGING WILL IMPACT ON OUR PRACTICE

LEARNING OBJECTIVES:

1. To understand the value of functional imaging for the oncologic management (at large) of lung, lymphoma, prostate and brain tumors
2. To understand the value of functional imaging for radiation treatment planning of lung, lymphoma, prostate and brain tumors

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Friday 11 May 2012

		ABS. NUMBER
14:30 - 15:45 • Room 115		
CHAIR: <i>V. Grégoire (Belgium)</i>		
Co-CHAIR: <i>D. Thorwarth (Germany)</i>		
14:30	> Functional imaging for prostate radiotherapy SPEAKER: <i>V. Khoo (United Kingdom)</i>	SP-0257
14:48	> Emerging imaging technologies? How functional imaging will impact on our practice. Brain tumors SPEAKER: <i>A. Grosu (Germany)</i>	SP-0258
15:06	> Functional imaging and radiation treatments in lymphomas: SPEAKER: <i>T. Girinsky (France)</i>	SP-0259
15:24	> Emerging imaging technologies: how functional imaging will impact on our practice - lung SPEAKER: <i>U. Nestle (Germany)</i>	SP-0260

■ SYMPOSIUM

IMAGING FOR TREATMENT ASSESSMENT

LEARNING OBJECTIVES:

1. To become familiar with the positivity to make early treatment assessment based on imaging
2. To understand the need for early assessment of treatment outcome
3. To appreciate the variability of image modalities available to make early treatment assessment

14:30 - 15:45 • Room 117

CHAIR: *C. Brink (Denmark)*

Co-CHAIR: *J.M. Ordiales Solis (Spain)*

14:30	> Cone beam CT based measurement of dose response in normal lung SPEAKER: <i>C. Brink (Denmark)</i>	SP-0261
14:55	> Diffusion-weighted MRI for prediction and early treatment assessment of chemoradiation in head and neck cancer SPEAKER: <i>V. Vandecaveye (Belgium)</i>	SP-0262

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		Abs. NUMBER
15:20	> Assessment of head-neck toxicity using CT SPEAKER: <i>G. Sanguineti (USA)</i>	SP-0263

LOOK INSIDE

TRACKING: TECHNIQUES, METHODS, DOSIMETRIC AND QA ASPECTS

LEARNING OBJECTIVES:

1. Indication of use for real-time tumour tracking (clinical benefit) for which patient groups
2. Feasibility of identifying the patients that benefit and real-time tracking of the tumour
3. To clarify the required safety procedures to use the technique clinically

14:30 - 15:45 • Room 116

CHAIR: *P. Munck af Rosenschöld (Denmark)*

Co-CHAIR: *L. Escudé (Spain)*

14:30	> Motivation for real-time adaptive therapy (challenges, potential use, level of evidence) SPEAKER: <i>D. Verellen (Belgium)</i>	SP-0264
14:55	> Real-time motion detection systems and the impact of intra-treatment motion on the treatment SPEAKER: <i>P.R. Poulsen (Denmark)</i>	SP-0265
15:20	> Seven years of clinical experience in real-time lung tumor tracking SPEAKER: <i>M. Hoogeman (The Netherlands)</i>	SP-0266

SYMPOSIUM

DOES FRACTIONATED RADIATION THERAPY MAKE TUMOURS MORE AGGRESSIVE?

LEARNING OBJECTIVES:

1. To become familiar with the role of extracellular matrix in radiation response.
2. To understand fundamental aspects controlling TGF β biology, its implications in radiation responses and to become familiar with TGF β inhibitors in the clinic

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		Abs. NUMBER
14:30 - 15:45 • Room 120-121		
CHAIR: <i>P.C. Lara Jimenez (Spain)</i>		
Co-CHAIR: <i>J. Lopez Torrecilla (Spain)</i>		
14:30	> The yin and yang of extracellular matrix and radiation SPEAKER: <i>N. Cordes (Germany)</i>	SP-0267
14:55	> Vascular and metabolic responses to tumor irradiation SPEAKER: <i>M. Pruschy (Switzerland)</i>	SP-0268
15:20	> Therapeutic benefit from transforming growth factor β inhibition during radiotherapy SPEAKER: <i>M.H. Barcellos-Hoff (USA)</i>	SP-0269

SYMPOSIUM

DEVELOPING A ROADMAP TO A CONTRACT WITH THE YOUNG MEMBERS OF ESTRO

14:30 - 15:30 • Room 122-123

CHAIR: *V. Valentini (Italy)*

Co-CHAIR: *C. Clark (United Kingdom)*

Co-CHAIR: *S. Rivera (France)*

14:30	> Objectives of the young task force SPEAKER: <i>D. Zips (Germany)</i>	
14:40	> Results of a survey of young professionals in radiation oncology SPEAKER: <i>B. De Bari (Italy)</i>	
14:55	> Overview of the roadmap to the contract with the young SPEAKER: <i>L.P. Muren (Denmark)</i>	
15:05	> Experiences of the French young society in radiation oncology (SfjRO) in setting up a contract with ESTRO SPEAKER: <i>P. Blanchard (France)</i>	
15:05	> Experiences of the French young society in radiation oncology (SfjRO) in setting up a contract with ESTRO SPEAKER: <i>S. Thureau (France)</i>	
15:15	> Discussion panel	

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■ POSTER DISCUSSION: 7

RTT

14:45 - 15:30 • Poster Area

CHAIR: M. Leech (Ireland Republic of)

Co-CHAIR: J. Kuipers (The Netherlands)

- > Comparison of three immobilisation systems for radiation therapy in head and neck cancer
R.L. Christiansen (Denmark), C.R. Hansen, T.B. Nielsen, J. Johansen, C. Brink PD-0270
- > Local setup reproducibility of the head & neck cancer patients for two different neck supports in clinical practice
S. van Beek (The Netherlands), A. Mencarelli, P. Remeijer, J.J. Sonke, C. Rasch PD-0271
- > A randomised study comparing 3 immobilisation headrests for patients having radiotherapy for head & neck cancer
K. Woods (United Kingdom), D. Husband, A. Shenoy, C. Corcoran, D. Blair, C. Baker PD-0272
- > Dosimetric consequences due to tumour shrinkage and weight loss for IMRT and RA treatment planning
D. Elezaj (Denmark), Z.P. Pohl, C.F. Behrens, D. Sjöström PD-0273
- > Comparison of 2D kV images and 3D cone beam CT (CBCT) for positioning head & neck cancer (HNCa) radiotherapy patients
R. Perry (United Kingdom), R.A. Parker, D. Emmens, S. Isherwood, H.V. James, C.D. Scrase PD-0274
- > Effect of different headrests and 2D or 3D position verification on the setup margins of head & neck cancer patients
J. Free (The Netherlands), N.M. Sijtsema, P.W.H. Wittendorp, A. van der Schaaf, J.A. Langendijk, A.A. van 't Veld PD-0275
- > Patient positioning in stereotactic radiotherapy of brain metastasis using an extra-supported fixation mask
S. Ali (The Netherlands), M. Buijs, N. Mesbahe - Bouzeyya, P. Remeijer, L. Dewit PD-0276

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■ POSTER DISCUSSION

YOUNG SCIENTISTS 1: STEROTACTIC AND PALLIATION

15:45 - 17:15 • Poster Area 1

CHAIR: J. Jaal (Estonia)

Co-CHAIR: Y. Pointreau (France)

- > Steady diet as prophylaxis of acute diarrhea in preoperative pelvic radiotherapy of rectal adenocarcinoma
E. Arzequi López (Spain), C. Bueno Serrano, G. Quintana Navarro, M. Rodríguez Liñán, A. Béjar Luque, E. Rivin del Campo, A. Otero Romero, S. García Cabezas, A. Palacios Eito PD-0277
- > Injection of hyaluronic acid (HA) preserves the rectal wall in prostate stereotactic body radiation therapy (SBRT)
C. Udrescu (France), A. Ruffion, M.P. Sotton, M. Devonec, M. Colombel, P. Jalade, O. Chapet PD-0278
- > Value of 18F-FDG-PET/CT after stereotactic body radiation therapy for stage I non-small cell lung cancer
N. Andratschke (Germany), J. Wantke, B. Mayer, R.A. Bundschuh, B. Haller, S.T. Astner, M. Molls, M. Essler PD-0279
- > Stereotactic body irradiation in patients with solitary lung nodules
M. Marcenaro (Italy), L.B. Belgioia, D.A. Agnese, D.D. Doino, F.L. Lamanna, S.V. Vagge, E.M. Mantero, S.G. Garelli, M.Z. Zeverino, R.C. Corvò PD-0280
- > Vestibular schwannoma treated with fractionated stereotactic radiotherapy. Our experience
N. Gascón (Spain), J.F. Pérez-Regadera, R. Dambrosi, A. Castaño, R. Martínez, Cabeza MA.(1), Bartolomé A.(1), E. Lanzós PD-0281
- > Robotic stereotactic body radiation therapy for liver metastases
K. Engin (Turkey), N. Kucuk PD-0282

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■ POSTER DISCUSSION

YOUNG SCIENTISTS 2: BREAST AND IMAGING/VOLUME DEFINITION IN BREAST

15:45 - 17:15 • Poster Area 2

CHAIR: B. Offeresen (Denmark)

Co-CHAIR: R. Ciervide (USA)

- > A comparison of CT and US imaging for brachytherapy partial breast irradiation treatment planning
M.G.A. Sattler (Canada), B. Keller, E. Rakovitch, J.P. Pignol PD-0283
- > Reduction of probability of cardiac and pulmonary complications for early stage breast cancer patients
O. Utehina (Latvia), A. Meijers, G. Boka, D. Purina, S. Popovs PD-0284
- > Evaluation of tolerance to exclusive IORT with different doses for conservative breast cancer treatment
A. Fozza (Italy), L. Belgioia, G. Timon, F. Cavaghetto, M. Gusinu, G. Canavese, P. Meszaros, G. Vidano, R. Corvò, M. Guenzi PD-0285
- > A simplified CT-based definition of the supraclavicular and infraclavicular nodal volumes in breast cancer
I. Atean (France), Y. Pointreau, L. Ouldamer, C. Monghal, G. Bera, A. Bougnoux, I. Barillot PD-0286
- > Advances in MR imaging of axillary lymph nodes for elective radiation treatment of breast cancer
B. van Asselen (The Netherlands), H.J.G.D. van den Bongard, J.J.W. Lagendijk, M. van Vulpen, M.E.P. Philipens PD-0287
- > Correlation of lymphoscintigraphy w/ ILM in PIII studies w/ Tc99m-tilmanocept in breast cancer & melanoma
W. Metz (USA), B. Abbruzzese, S. Blackburn, B. Potter, J. Shuping, F. Cope, D. King, L. Christman PD-0288

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■ POSTER DISCUSSION

YOUNG SCIENTISTS 3: LUNG

15:45 - 17:15 • Poster Area 3

CHAIR: TBC

Co-CHAIR: A. Navarro-Martin (Spain)

- > Regions of the tumor with different FDG uptake exhibit also a difference in advanced CT imaging information in NSCLC
R. Leijenaar (The Netherlands), S. Carvalho, E. Rios Velazquez, H. Aerts, P. Lambin PD-0289
- > Correlation between dose volume parameters and toxicity in patients treated with SABR for stage 1 lung cancer
H.B. Musunuru (United Kingdom), J. Lilley, M. Naisbit, S.M. Ramasamy, S. Kirwin, M.P. Snee, K. Clarke, R.N. Turner, R. Stuart, K.N. Franks PD-0290
- > Clinical outcome after cone-beam computed tomography-guided hypofractionated radiotherapy for stage I-II NSCLC
K. Vandecasteele (Belgium), P. Berkovic, I. Madani, K. Vermaelen, J.P. van Meerbeeck, V. Surmont, W. De Neve PD-0291
- > Is there a role for PCI in NSCLC: a retrospective study of brain metastasis after radical radiotherapy
E. Khan, S. Ismail, R. Muirhead (United Kingdom) PD-0292
- > Reproducibility and volume segmentation methods on F-miso and FLT PET-CT images in patients with lung cancer
S. Thureau (France), P. Chaumet-Riffaud, P. Fernandez, B. Bridji, C. Houzard, L. Tessonnier, F. Cachin, R. Modzelewski, P. Vera, B. Dubray PD-0293
- > Palliative radiotherapy treatment of inoperable pleural mesothelioma using helical tomotherapy
E. Parisi (Italy), A. Romeo, A. Sarnelli, G. Genestreti, G. Ghigi, M. Giannini, E. Neri, S.R. Bellia, S. Vennarini, R. Polico PD-0294

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■ POSTER DISCUSSION

YOUNG SCIENTISTS 4: HEAD AND NECK

15:45 - 17:15 • Poster Area 4

CHAIR: J. Cacicedo (Spain)

Co-CHAIR: L. Livi (Italy)

- > Late toxicities in 796 patients after conventional radiation therapy alone for nasopharyngeal carcinoma
J. Tuan (Singapore), T. Ha, W. Ong, T. Siow, I. Tham, S. Yap, T. Tan, E. Chua, K. Fong, J. Wee PD-0295
- > Efficacy of concurrent carboplatin with IMRT after induction chemotherapy for locoregional advanced HNSCC
K. Geropantas (United Kingdom), S. Loo, Z. Tasigiannopoulos, R. Fitchett, C. Martin, T. Roques PD-0296
- > Aspiration pneumonia among 324 consecutive head and neck cancer patients treated with radiotherapy
H. Mortensen (Denmark), K. Jensen, C. Grau PD-0297
- > Is a HPV-based model more accurate than the traditional TNM in oropharyngeal carcinoma patients to predict outcome?
E. Rios Velazquez (The Netherlands), F. Hoebbers, F. Micciché, R. Autorino, I. D'Onofrio, F. Bussu, C. Parrilla, E.J. Speel, J. Straetmans, P. Lambin PD-0298
- > Correlations of spatial dose distribution with trismus in a cohort of head and neck radiotherapy patients
Z. Saleh (USA), S. Rao, A. Apte, G. Sharp, N. Lee, J. Deasy PD-0299
- > Validation of diffusion weighted magnetic resonance imaging for automatic tumor delineation in laryngeal cancer
T. Schakel (The Netherlands), J. Caldas Magalhaes, N. Kasperts, N. Kooij, C.H.J. Terhaar, C.P.J. Raaijmakers, M.E.P. Philippens PD-0300

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■ POSTER DISCUSSION

YOUNG SCIENTISTS 5: GYNAECOLOGY

15:45 - 17:15 • Poster Area 5

CHAIR: I. Barillot (France)

- > Bladder-rectum spacer balloon in HDR brachytherapy in carcinoma cervix
B. Rai (India), F.D. Patel, S.C. Sharma, R. Kapoor, A.S. Aprem PD-0301
- > Improved risk assessment of endometrial cancer patients by analysis of MSI, PI3K-AKT, Wnt and P53 pathways
R.A. Nout (The Netherlands), T. Bosse, V. Smit, I.M. Jürgenliemk-Schulz, J.J. Jobsen, L.C.H.W. Lutgens, E.M. van der Steen-Banasik, J.W.M. Mens, N.T. ter Haar, C.L. Creutzberg PD-0302
- > Dose escalation in loco-regionally advanced cervical cancer using intensity modulated radiotherapy
N. Cihoric (Switzerland), D. Aebersold, K. Krüger, K. Lössl PD-0303
- > Prophylactic para-aortic lymph node irradiation in cervix cancer patients receiving concurrent chemoradiation
M.L. Yap (Canada), J. Cuartero, J. Yan, M. Pintilie, A. Fyles, K. Opfermann, W. Levin, M. Manchul, M. Milosevic PD-0304
- > Impact of clinically positive lymph nodes on FIGO IB1-IIB cervical cancer patients
R. D'Ambrosi (Spain), J. Pérez-Regadera, S. Guardado, O. Hernández, G. Vazquez, D. Lora, J. De La Cruz, V. Rodríguez, M. Murillo, E. Lanzós PD-0305
- > MR-guided brachytherapy process for cervical cancer: identifying procedure time & opportunities for efficiencies
K. Chan (Canada), T. Rosewall, B. Kenefick, M. Milosevic PD-0306

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■ POSTER DISCUSSION	
YOUNG SCIENTISTS 6: GI AND GU	
15:45 - 17:15 • Poster Area 6	
CHAIR: <i>A. Bossi (France)</i>	
Co-CHAIR: <i>A.R. Filippi (Italy)</i>	
> Role of FDG-PET as a predictor of distant failure in preoperative Carbon-ion radiotherapy for pancreatic cancer <i>M. Shinoto (Japan), S. Yamada, K. Yoshikawa, S. Yasuda, H. Imada, T. Kamada</i>	PD-0307
> Preoperative radio-chemotherapy in rectal cancer: prognostic value of time interval to surgery <i>C. Solé (Chile), V. Ovalle, M. Russo, S. Solé, M. Baeza</i>	PD-0308
> Impact of the time interval RT-surgery on the outcome of preoperative accelerated hyperfr. RT in rectal cancer pts <i>I. Wzietek (Poland), M. Kryj, M. Widel, A. Chmielarz, A. Idasiak, E. Stobiecka, E. Chmielik, J. Wydmanski, R. Suwinski</i>	PD-0309
> Hypofractionation and simultaneous integrated boost with image guided - VMAT for prostate cancer <i>F. Alongi (Italy), S. Arcangeli, S. Castiglioni, A. Tozzi, P. Mancosu, G. Taverna, A. Fogliata, L. Cozzi, P. Graziotti, M. Scorsetti</i>	PD-0310
> Post-radiotherapy erectile dysfunction - A model for assessing the conflicting literature on dose - volume effects <i>E. Rivin del Campo (Spain), K. Thomas, V. Weinberg, M. Roach III</i>	PD-0311
> Dose adapted salvage RT after radical prostatectomy based on an erMRI target definition model: toxicity analysis <i>T. Zilli (Switzerland), S. Jorcano, N. Peguret, F. Caparrotti, A. Hidalgo, H. Khan, H. Vees, R. Miralbell</i>	PD-0312

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■ POSTER DISCUSSION	
YOUNG SCIENTISTS 7: BASIC DOSIMETRY AND DOSE CALCULATION	
15:45 - 17:15 • Poster Area 7	
CHAIR: <i>A. Nisbet (United Kingdom)</i>	
Co-CHAIR: <i>E. Malinen (Norway)</i>	
> Assessing dose-to-medium to dose-to-water conversion for the Monte Carlo verification of 6 MV head and neck IMRT <i>M. Zarza Moreno (Portugal), C. Borges, N. Teixeira, A.P. Jesus, G. Mora</i>	PD-0313
> Extension of the Monte Carlo code PENELOPE to protons <i>J. Sorriaux (Belgium), F. Salvat, S. Vynckier, E. Sterpin</i>	PD-0314
> An analytical model for the attenuation produced by a carbon fiber treatment couch <i>S. Ruiz Arrebola (Spain), F. Simancas, A. Tornero López, D. Burgos, R. Guerrero, M. Vilches</i>	PD-0315
> Characterisation of a high-resolution 1-D optical scanner for gel dosimeter samples <i>T.S. Kinnari (Denmark), P.S. Skyt, E.S. Yates, L.P. Muren, J.B.B. Petersen, P. Balling</i>	PD-0316
> The thermal and temporal dependence of Presage™ dose response <i>P.S. Skyt (Denmark), I. Wahlstedt, L.P. Muren, J.B.B. Petersen, P. Balling</i>	PD-0317
> In-phantom dose verification of four-field box and IMRT treatment delivery using plastic scintillation detectors <i>D.M. Klein (USA), L.S. Wootton, R.J. Kudchadker, A.K. Lee, A.S. Beddar</i>	PD-0318

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■ POSTER DISCUSSION

YOUNG SCIENTISTS 8: DOSE MEASUREMENT

15:45 - 17:15 • Poster Area 8

CHAIR: T. Gevaert (Belgium)

Co-CHAIR: W. van Elmpt (The Netherlands)

- > Underestimation of dose delivery due to scattering conditions for pre-clinical irradiations
C. Noblet (France), S. Chiavassa, F. Paris, S. Supiot, A. Lisbona, G. Delpon PD-0319
- > Determination of spatially dependent correction factors for Si-diode measurements in photon fields
M. Parczyk (Germany), J. Wilbert, H. Weigelt, O.A. Sauer PD-0320
- > Comparison of current IMRT QA and a novel anatomy based analysis method by detecting introduced errors
D. Gasic (Sweden), J. Sjöberg, H. Benedek, M. Enmark, T. Knöös PD-0321
- > Evaluation of a commercial EPID dosimetry system for pre-treatment QA, transit dosimetry and adaptive radiotherapy
A. Reilly (United Kingdom), L. Fennell PD-0322
- > Tomotherapy treatment plan quality assurance (QA): the impact of applied criteria on gamma passing rate (%GP)
A. Di Dia (Italy), C. Sini, S. Bresciani, A. Maggio, A. Miranti, C. Cutaia, E. Garibaldi, P. Gabriele, M. Stasi PD-0323
- > Tomotherapy in-vivo dosimetry using on-line MVCT detector: Institution clinical experience
C. Lesven (France), S. Caneva Losa, A. Mazal, P. Francois PD-0324

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■ POSTER DISCUSSION

YOUNG SCIENTISTS 9: IMAGING FOR CLINICAL APPLICATIONS AND QA

15:45 - 17:15 • Poster Area 9

CHAIR: L. Court (USA)

Co-CHAIR: TBC

- > A new method for sub-millimeter co-calibration of X-ray positioning system and linac isocenters
D. Arp (Denmark), J. Carl PD-0325
- > Commissioning of a new wide bore MRI scanner for radiotherapy planning of head & neck cancer
S.C. Owen (United Kingdom), G.P. Liney, A.K.E. Beaumont, D.J. Manton, V.R. Lazar, A.W. Beavis PD-0326
- > Statistical analysis of MRI-only based dose planning
M.E. Korsholm (Denmark), L.W. Waring, R.R. Paulsen, J.M. Edmund PD-0327
- > Does partial volume effect in PET affect biologically adapted planning based on FDG uptake?
G. Shakirin (Germany), S. Carvalho, M. Ahrens, A. Fischer, R. Boellaard, P. Lambin PD-0328
- > Evaluation of various deformable image registration algorithms using thoracic images
N. Kadoya (Japan), Y. Fujita, Y. Katsuta, Y. Onozato, S. Dobashi, K. Takeda, K. Kishi, T. Yamamoto, K. Jingu, H. Matsushita PD-0329
- > Biomechanical deformable registration based dose accumulation vs. dose summation for the bladder
E.S. Andersen (Denmark), L.P. Muren, T.S. Sørensen, K. Noe, M. Thor, J.B. Petersen, M. Høyer, L. Bentzen, K. Tanderup PD-0330

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■ POSTER DISCUSSION

YOUNG SCIENTISTS 10: IMPLEMENTATION OF NEW TECHNOLOGIES

15:45 - 17:15 • Poster Area 10

CHAIR: *W. Wunderink (The Netherlands)*Co-CHAIR: *L.B. Hysing (Norway)*

- > Efficient IMRT quality control using varian dynamic log-file (DynaLog) analysis in a busy radiotherapy department
C.E. Agnew (United Kingdom), A.R. Hounsell, C.K. McGarry PD-0331
- > Assessment of dosimetric improvements to VMAT delivery on moving to continuously variable dose rates
A. McWilliam (United Kingdom), E. Johnstone, C.J. Boylan, C.G. Rowbottom PD-0332
- > Setup efficiency and accuracy using AlignRT v.4.5 and v.5 3D real-time surface imaging system
J. Peng (USA), K. Vanek, N. Koch, M. Ashenafi, D. McDonald, J. Jenrette PD-0333
- > Development, quality assurance & in vivo use of an MRI-guided robot for high precision brachytherapy
M.R. van den Bosch (The Netherlands), M. van Vulpen, J.J.W. Lagendijk, M.A. Moerland PD-0334
- > A novel compact rotating linac for proton therapy - a design and dose delivery study
K. Kraus, A. Degiovanni (Switzerland), U. Amaldi, U. Oelfke PD-0335
- > Results of the IAEA project on TPS audit in radiotherapy in Europe
E. Gershkevitch (Estonia), C. Peshnyak, B. Petrovic, J. Grezdo, K. Chelminski, M. do Carmo Lopes, J. Izewska PD-0336

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■ POSTER DISCUSSION

YOUNG SCIENTISTS 11: MANAGEMENT OF INTER AND INTRA FRACTION MOTION

15:45 - 17:15 • Poster Area 11

CHAIR: TBC

Co-CHAIR: *T. Depuydt (Belgium)*

- > Prostate IGRT using quantitative 3D ultrasound imaging: intramodality US vs. MV imaging of implanted markers
S. van der Meer (The Netherlands), E. Bloemen-van Gorp, D. Fontanarosa, P. Visser, L. Lutgens, F. van Gils, F. Verhaegen PD-0337
- > Evaluation of a prerelease dose accumulation software based on deformable image registration applied to the bladder
M. Thor (Denmark), J.B.B. Petersen, U.V. Elstrøm, E.S. Andersen, K. Tanderup, T.S. Sørensen, K.O. Noe, L. Bentzen, M. Høyer, L.P. Muren PD-0338
- > Optimum adaptive radiation therapy strategy for nasopharyngeal carcinoma
W.W.K. Fung (Hong Kong (SAR) China), V.W.C. Wu PD-0339
- > Evaluation of stability of implanted markers for image guided radiotherapy beam tracking of mobile lung tumours
M. Josipovic (Denmark), G. Fredberg Persson, D.E. Nygaard, M. Aznar, P. Munck af Rosenschöld, P. von der Recke, T. Juhler-Nøttrup, S. Koremann, L. Specht PD-0340
- > Impact of lung tumour tracking model on safety margins using magnetic multi-sensors and audio-video coaching
S. Goossens (Belgium), F. Senny, J. Lee, G. Janssens, X. Geets PD-0341
- > Time-resolved evolution of target dose distribution during IMAT with and without dynamic MLC tracking
T. Ravkilde (Denmark), P.J. Keall, C. Grau, M. Høyer, P.R. Poulsen PD-0342

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■ POSTER DISCUSSION

YOUNG SCIENTISTS 12: TREATMENT PLANNING: OPTIMISATION AND COMPARISON

15:45 - 17:15 • Poster Area 12

CHAIR: G. Nicolini (Switzerland)

Co-CHAIR: TBC

- > IMRT optimization using multivariable NTCP models for head and neck cancer patients
R.G.J. Kierkels (The Netherlands), A. van der Schaaf, C. Schilstra, M. Bal, J.A. Langendijk, A.A. van 't Veld PD-0343
- > HybridArc™ - efficient mixture of dynamic arc and static IMRT? Comparison to VMAT in terms of plan quality & efficiency
M. Stock (Austria), R. Dreindl, D. Georg PD-0344
- > Pitch choice for off-axis blocked targets treated with tomotherapy
D. O'Doherty (United Kingdom), M. Lenane, A. Geater, S. Tudor PD-0345
- > A novel software tool to guide dosimetrists to efficiently generate high quality prostate IMRT treatment plans
Y. Wang, L. Incrocci, A. Zolnay, H. Joosten, S. Breedveld, T. McNutt, B. Heijmen, S. Petit (The Netherlands) PD-0346
- > Extended Penumbra Reduction for normal tissue sparing in proton therapy of intracranial tumors
M. Bubula (Germany), U. Jelen, F. Ammazalorso, U. Weber, K. Zink, R. Engenhardt-Cabillic, A. Wittig PD-0347
- > Proton and carbon ion IMPT treatment plans in raster scanning ion beam therapy
M. Ellerbrock (Germany), B. Ackermann, N. Chaudhri, S. Ecker, K. Henkner, H. Prokesch, M. Winter, O. Jaekel PD-0348

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■ POSTER DISCUSSION

YOUNG SCIENTISTS 13: RTT

15:45 - 17:15 • Poster Area 13

CHAIR: M. Mast (The Netherlands)

Co-CHAIR: D. Pasini (Italy)

- > Evaluation of intra-fractional motion in frameless stereotactic irradiation
T. Takakura (Japan), T. Mizowaki, M. Nakamura, M. Nakata, Y. Tsuruta, Y. Miyabe, K. Higashimura, M. Hiraoka PD-0349
- > Radical radiotherapy for muscle-invasive bladder cancer audit abstract
C.F.K. Lorimer (United Kingdom), J. Adam, J. Lim, A. Robinson, D. Gilbert, D. Crook, A. Nikapota PD-0350
- > Implementation and integration of a 3D virtual radiotherapy environment system within a clinical setting
A. Leong (Switzerland), A. Imboden, M. Pavic, C. Winter PD-0351
- > Evaluation of set-up margins in mid-lower oesophageal cancers treated at a single centre with radical radiotherapy
Q. Mehmood (United Kingdom), J. Stratford, A. Jackson, H. Sheikh PD-0352
- > Six degrees of freedom robotic correction table: integration into routine radiotherapy practice
M. Kovacs (Switzerland), M. Iseli, S. Lang, M. Malla, C. Winter PD-0353
- > An evaluation of offline correction protocol in the treatment of prostate cancer
M. Kamphuis (The Netherlands), N. van Wieringen, A. Bel, J. Wiersma, C. Maarten, C. Hulshof PD-0354
- > Can offline corrections effectively substitute for daily online imaging in radiotherapy of carcinoma of Prostate?
D. Prasad, P. Das, N. Saha, M. Nandi, S. Guha, S. Chatterjee, R. Achari, J. Mallick (India) PD-0355

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	ABS. NUMBER
> Develop and implementing a cancer type specific educational program for image matching <i>D. Sjöström (Denmark), S.K. Buhl, M. Baker, K. Andersen, N. Hviid Dinesen, S. Lind, S. Valentin, C.F. Behrens, V. Brandhof</i>	PD-0356
■ POSTER DISCUSSION	
YOUNG SCIENTISTS 14: RADIOBIOLOGY	
15:45 - 17:15 • Poster Area 14	
CHAIR: <i>M. Scharpfenecker (The Netherlands)</i>	
Co-CHAIR: <i>R.J. Muschel (United Kingdom)</i>	
> Dependence of cell survival on the instantaneous dose rate of a linear accelerator <i>L. Praestegaard (Denmark), B.S. Sørensen, A. Vestergaard, J. Overgaard</i>	PD-0357
> In vivo response of three experimental prostate tumor sublines to photons and carbon ions: preliminary results <i>C. Glowa (Germany), P. Peschke, M. Scholz, P. Huber, J.P. Debus, C.P. Karger</i>	PD-0358
> Radiosensitizing effect of a RasGAP derived peptide on cell survival in human cancer cells in vitro and in vivo <i>D. Viertel (Switzerland), A. Annibaldi, C. Widmann, O. Matzinger</i>	PD-0359
> ?-H2AX: a sensitive biomarker for comparison of whole body dose from IMRT, RapidArc™ or 3D-conformal radiotherapy <i>S. Sivabalasingham (United Kingdom), M. Worku, N. Lalli, P. Bassett, N. Fersht, T. Guerrero-Urbano, S.C. Short</i>	PD-0360
> Artificial neural networks for toxicity prediction after prostate RT: a ready to use graphical tool for clinicians <i>M. Carrara (Italy), S. Tomatis, T. Rancati, C. Fiorino, A. Magli, G. Fellin, L. Menegotti, C. Bianchi, A. Monti, R. Valdagni</i>	PD-0361

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

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	ABS. NUMBER
> Monitoring tumour microvascular response to ionizing radiation with optical coherence tomography <i>L. Conroy (Canada), A. Maeda, R.S. DaCosta, I.A. Vitkin</i>	PD-0362
■ SYMPOSIUM	
ELDERLY PATIENTS TREATMENT: STANDARDS VS. FEASIBILITY (2)	
LEARNING OBJECTIVES:	
1. To understand the challenges in developing evidence based approaches for elderly patients	
2. Do elderly patients require different treatment approaches?	
3. An overview of radiotherapy treatment approaches in the elderly using three common tumour types as a model: Lung cancer, Head & Neck cancer and Rectal cancer	
16:15 - 17:15 • Auditorium	
CHAIR: <i>D. Hollywood (Ireland Republic of)</i>	
Co-CHAIR: <i>J. Bourhis (France)</i>	
16:15 > Primary RT: head & neck SPEAKER: <i>J. Bourhis (France)</i>	SP-0363
16:35 > Neoadjuvant RT: lower GI (rectum and anus) SPEAKER: <i>D. Sebag-Montefiore (United Kingdom)</i>	SP-0364
16:55 > Adjuvant and definitive radiotherapy in elderly patients with lung cancer SPEAKER: <i>L. Kepka (Poland)</i>	SP-0365
■ PROFFERED PAPERS	
CLINICAL 5: AGE RELATED ISSUES	
16:15 - 17:15 • Room 113-114	
CHAIR: <i>R. Kortmann (Germany)</i>	
Co-CHAIR: <i>A.G. Morganti (Italy)</i>	
16:15 > The Italian oncological net for cancer palliative care <i>F. De Rose (Italy), G. Mantini, L. Tagliaferri, S. Manfrida, S. Barbi, M. Balducci, S. Chiesa, M.A. Gambacorta, V. Valentini, N. Cellini</i>	OC-0366

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		ABS. NUMBER
16:25	> Radium-223 chloride and improved survival in castration-resistant prostate cancer patients with bone metastases <i>V. Lewington (United Kingdom), S. Boehmer, L. Franzén, R. Klijer, B. Mellado, R. Coleman, A. Cross, C. Biggin, C. Parker</i>	OC-0367
16:35	> Results of a phase I-II study of short course accelerated radiation therapy (SHARON) for multiple brain metastases. <i>L. Caravatta (Italy), M. Ferro, G. Macchia, F. Deodato, M. Massaccesi, M. Buwenge, A. Scapati, V. Valentini, N. Cellini, A.G. Morganti</i>	OC-0368
16:45	> Quality of life in early breast cancer: Results from Cambridge breast intensity-modulated radiotherapy trial <i>M. Mukesh (United Kingdom), G. Barnett, W. Qjan, J. Wilkinson, D. Parashar, N. Twyman, G. Wishart, M. Moody, C. Wilson, C. Coles</i>	OC-0369
16:55	> The impact of young age on health related quality of life after breast conserving surgery and radiotherapy <i>E.J. Bantema-Joppe (The Netherlands), E.R. van den Heuvel, G.H. de Bock, W.V. Dolsma, D.M. Busz, A.V. Ranchor, J.A. Langendijk, J.H. Maduro</i>	OC-0370
17:05	> A hypofractionated radiotherapy (HyFRT) schedule for palliative treatment of head and neck cancer <i>C. Maare (Denmark), E. Andersen, E. Samsøe, J. Bentzen</i>	OC-0371

■ SYMPOSIUM

CAN IMAGING BE QUANTITATIVE?

16:15 - 17:15 • Room 115

CHAIR: P. Lambin (The Netherlands)

Co-CHAIR: TBC

16:15	> The importance of multi-centric standards in PET/CT imaging in radiation oncology SPEAKER: W. Oyen (The Netherlands)	SP-0372
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■ CLINICAL ■ INTERDISCIPLINARY ■ PHYSICS ■ RADIOBIOLOGY ■ RTT ■ YOUNG

PROGRAMME & EXHIBITION GUIDE • ESTRO 31

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		ABS. NUMBER
16:35	> Quantifying hypoxia imaging to improve radiotherapy outcome SPEAKER: M.R. Horsman (Denmark)	SP-0373
16:55	> What can automatic PET tumour volume delineation bring to treatment planning? SPEAKER: D. Visvikis (France)	SP-0374
■ PROFFERED PAPERS		
PHYSICS 8: MARGINS		
16:15 - 17:15 • Room 117		
CHAIR: A. Bel (The Netherlands)		
Co-CHAIR: D. Jurado-Bruggeman (Spain)		
16:15	> A recipe for CTV margins and how to combine them with PTV margins <i>J. Stroom (Portugal), K. Gilhuijs, W.E.I. Chen, S. Vieira, E. Moser, J.J. Sonke</i>	OC-0375
16:25	> Impact of 4DCT image quality on ITV margins for radiotherapy simulation: helical vs. volumetric 4DCT <i>C. Coolens (Canada), B. Driscoll, J. Bracken, D.A. Jaffray</i>	OC-0376
16:35	> Real-time esophageal tumour motion quantification on cine MRI using an adaptive correlation filter <i>F.M. Lever (The Netherlands), I.M. Lips, S.P.M. Crijs, O. Reerink, J.P. Ruurda, A.L. van Lier, M.A. Moerland, M. van Vulpen, G. Meijer</i>	OC-0377
16:45	> Helical tomotherapy dynamics are not an issue to treat lung tumors for patients coached to ensure regular breathing <i>E. Sterpin (Belgium), G. Janssens, J. Orban de Xivry, S. Goossens, A. Delor, M. Wanet, J.A. Lee, S. Vynckier, X. Geets</i>	OC-0378
16:55	> Opportunities for margin reduction for cervical cancer by application of a population based library of plans <i>S. van Kranen (The Netherlands), R. de Jong, P. de Ruiter, M. Bloemers, M. van Herk, P. Remeijer, J.J. Sonke</i>	OC-0379

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- ABS. NUMBER
- 17:05 > Planned dose, expected dose and delivered dose:
The benefit of probabilistic population based plan evaluation
*T. Janssen (The Netherlands), R. Bohoslavsky, S. van Kranen,
E. Damen, M. van Herk, C. van Vliet-Vroegindewij, M. Witte* OC-0380

■ DEBATE

WE SHOULD DO PRE-TREATMENT QA FOR IMRT EVEN THOUGH WE DIDN'T DO IT FOR CONFORMAL THERAPY

LEARNING OBJECTIVES:

1. Advanced technology requires advanced QA and verification. The question is how best to do this in resource-limited scenarios
2. Cost-balance arguments around pre-treatment QA (and towards 2D/3D IVBD)
3. Efficient methods, automated, integrated methods are necessary (professional community message to manufacturers)

16:15 - 17:15 • Room 116

CHAIR: *D.I. Thwaites (United Kingdom)*

Co-CHAIR: *A. Garcia-Romero (Spain)*

- 16:15 > For the motion - Pre-treatment, patient-specific QA is essential to ensure quality and safety
SPEAKER: *T. Pawlicki (USA)* SP-0381
- 16:35 > Against the motion
SPEAKER: *H. Nyström (Sweden)* SP-0382

■ PROFFERED PAPERS

RADIOBIOLOGY 3: TUMOUR MICROENVIRONMENT

16:15 - 17:15 • Room 120-121

CHAIR: *J. Alsner (Denmark)*

Co-CHAIR: *M. Krause (Germany)*

- 16:15 > Micro and messenger RNAs involved in hypoxia sensitivity in head and neck squamous cell carcinoma
P. Span (The Netherlands), M. Bussink, J. Bussink, J.H. Kaanders OC-0383

Friday 11 May 2012

- ABS. NUMBER
- 16:25 > Hypoxia-inducible factor 1a and 2a in whole-mount prostate histology: independent of DCE-MRI
A. Borren (The Netherlands), G. Groenendaal, M.R. Moman, A.E. Boeken Kruger, P. van der Groep, P.J. van Diest, U.A. van der Heide, M. van Vulpen, M.E.P. Philippens OC-0384
- 16:35 > Pancreatic stellate cells induce EMT concurrent with an increase in cancer stem-like cells and radioresistance
O. Al-Assar (United Kingdom), F. Demircioglu, S. Lunardi, T. Brunner OC-0385
- 16:45 > Nitric oxide-producing hepatocytes radiosensitize hypoxic colorectal cancer cells through oxygen sparing
H. Jiang (Belgium), V. Verovski, K. Law, M. Vermeersch, G. Storme, D. Van den Berge, T. Gevaert, D. Verellen, M. De Ridder OC-0386
- 16:55 > Multiparametric MRI imaging in patients undergoing ultra-hypofractionated RT for localised prostate cancer
K. Yip (United Kingdom), J. Taylor, P. Hoskin, N. Shah, P. Ostler, I. Simcock, J. Stirling, D. Collins, A. Padhani, R. Alonzi OC-0387
- 17:05 > HIF pathway inhibition resolves tumour hypoxia and improves local tumour control after irradiation
L. Helbig (Germany), H. Galleiske, L. Koi, K. Brüchner, A. Yaromina, M. Baumann, D. Zips OC-0388

■ PROFFERED PAPERS

RTT 3: VOLUME DEFINITION, TREATMENT MARGINS AND GEOMETRIC UNCERTAINTIES

16:15 - 17:15 • Room 118-119

CHAIR: *F. Cellini (Italy)*

Co-CHAIR: *A. Gomez-Iturriaga (Spain)*

- 16:15 > An investigation of the dosimetric implications of contouring variability in 3DCRT of the prostate
C. Rogerson (Ireland Republic of), M. Leech OC-0389

Friday 11 May 2012

		ABS. NUMBER
16:25	> Comparison of two atlas selection strategies for segmentation of head and neck CT scans <i>K. Leung (Hong Kong (SAR) China), C. Cheung, W. Lam, S. Yu, T. Chua</i>	OC-0390
16:35	> Evaluation of CT atlas-based segmentation of whole body's organs for large fields irradiation. <i>G. Lamanna, S. Vagge (Italy), L. Parodi, G. Taccini, R. Corvò</i>	OC-0391
16:45	> Implementation of the new standardised naming conventions in radiation therapy <i>J. van der Leer (The Netherlands), F.F.M. van Aarle, M.A.J. van Lieshout, M.J. van der Sangen, C.W. Hurkmans</i>	OC-0392
16:55	> Margin calculation for temporally asymmetric respiratory motion <i>G. Bouilhol (France), S. Rit, M. Ayadi, D. Sarrut</i>	OC-0393
17:05	> Tomotherapy of locally advanced cervix carcinoma: clinical validation of 3 mm CTV-PTV expansion <i>P. Nickers (France), F. Le Tinier, B. Castelain, N. Reynaert, F. Crop, T. Lacornerie, E. Lartigau</i>	OC-0394

■ POSTER DISCUSSION: 8

RADIOBIOLOGICAL MODELLING

16:15 - 17:00 • Poster Area

CHAIR: A.E. Nahum (United Kingdom)

Co-CHAIR: C. Fiorino (Italy)

- > Efficiency of biological vs physical optimization for single-arc VMAT planning in prostate and head-and-neck cases
V. Pyshniak (Belarus), A. Zverava, I. Fotina, S. Siamkouski, E. Zayats, D. Okuntsau PD-0395
- > Modelling the radiobiological effect of set-up error in 18F-FDG-PET-guided dose escalation for head and neck cancer
M. Teoh (United Kingdom), C.H. Clark, K. Wood, S. Whitaker, M. Hussein, A. Nisbet PD-0396

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		ABS. NUMBER
	> Correlation between surrogates of bladder dosimetry and DVH of the bladder wall defined on MRI imaging <i>V. Carillo (Italy), C. Cozzarini, L. Perna, A. Chietera, C. Bianconi, S.G. Brenna, S. Gianolini, T. Rancati, R. Valdagni, C. Fiorino</i>	PD-0397
	> Density variation of parotid glands during IMRT: correlation with treatment parameters and parotid shrinkage <i>C. Fiorino (Italy), G. Rizzo, E. Scalco, M.L. Belli, I. Dell'Oca, A. Mejia Rodriguez, F. Ricchetti, G. Sanguineti, V. Valentini, R. Calandrino</i>	PD-0398
	> Robustness of data-driven variable selection in multivariable modelling of complications after radiotherapy <i>A. van der Schaaf (The Netherlands), C.J. Xu, A.A. van 't Veld, J.A. Langendijk</i>	PD-0399
	> Impact of repair during a treatment fraction on tumour BED. Untapped opportunities for temporal optimisation? <i>K. Symons, M.A. Ebert (Australia), N. Suchowerska, D.R. McKenzie</i>	PD-0400
	> Modelling tumour vasculature and radiation response using a simulated annealing approach <i>E. Ghasroddashti (Canada), C. Kirkby, H. Morrison</i>	PD-0401
	> Saving days not grays: radiobiological modelling of gaps during synchronous chemoradiation in head and neck cancer <i>A. Hartley (United Kingdom), S. Meade, H. Benghiat, J. Glaholm, J. Cashmore, P. Sanghera, H. Mehanna</i>	PD-0402
	> On the increased RBE of proton clusters-dynamic medium response approach <i>E. Fourkal (USA), I. Veltchev</i>	PD-0403

Friday 11 May 2012

		ABS. NUMBER
■ PROFFERED PAPERS		
COMPANY AWARD LECTURES		
17:30 - 18:00 • Auditorium		
CHAIR: <i>V. Valentini (Italy)</i>		
Co-CHAIR: <i>N. Jornet (Spain)</i>		
17:30	> *** ESTRO-Accuracy Award ***	
	Stereotactic body radiation therapy for liver tumors <i>W. Wunderink (The Netherlands), A. Mendez Romero</i>	OC-0404
17:40	> *** ESTRO-Varian Award ***	
	Reporting of late rectal and urinary bladder side effects after MRI guided adaptive brachytherapy of cervix cancer. <i>P. Georg (Austria), G. Goldner, M. Schmid, A. Boni, A. Ghabouos, W. Dörr, C. Kirisits, R. Pötter</i>	OC-0405
17:50	> *** ESTRO-Jack Fowler University of Wisconsin Award ***	
	A Bayesian framework for marker-based patient positioning with a few projections in very short arcs <i>W. Hoeghele (Germany), R. Loeschel, B. Dobler, M. Kroiss, O. Koelbl, P. Zygmanski</i>	OC-0406

Saturday 12 May 2012

		ABS. NUMBER
■ TEACHING LECTURE		
CURRENT PRACTICE AND MOVING POINTS: LUNG		
08:00 - 08:40 • Auditorium		
CHAIR: <i>U. Ricardi (Italy)</i>		
08:00	> Current practice and moving points: lung SPEAKER: <i>C. Faivre-Finn (United Kingdom)</i>	SP-0407
■ TEACHING LECTURE		
STANDARDS AND UNCERTAINTIES IN RADIOTHERAPY OF THE UPPER ABDOMEN: PREOPERATIVE CHEMORADIATION IN PANCREATIC CANCER		
08:00 - 08:40 • Room 113-114		
CHAIR: <i>T. Brunner (United Kingdom)</i>		
08:00	> Standards and uncertainties in radiotherapy of upper abdomen: preoperative chemoradiation in pancreatic cancer SPEAKER: <i>A.G. Morganti (Italy)</i>	SP-0408
■ TEACHING LECTURE		
TARGETED AGENTS: RATIONALE, PRECLINICAL EVALUATION AND UP-DATE ON CLINICAL TRIALS		
08:00 - 08:40 • Room 115		
CHAIR: <i>R. Maurizi Enrici (Italy)</i>		
08:00	> Targeted agents: rationale, preclinical evaluation and up-date on clinical trials SPEAKER: <i>D. Zips (Germany)</i>	SP-0409
■ TEACHING LECTURE		
SMALL PHOTON FIELD DOSIMETRY: CHALLENGES IN ABSOLUTE, REFERENCE AND RELATIVE DOSIMETRY		
08:00 - 08:40 • Room 117		
CHAIR: <i>TBC</i>		
08:00	> Small photon field dosimetry: challenges in absolute, reference and relative dosimetry SPEAKER: <i>M.M. Aspradakis (Switzerland)</i>	SP-0410

Saturday 12 May 2012

		Abs. NUMBER
■ TEACHING LECTURE		
OVERVIEW OF DOSE VOLUME PARAMETERS USED IN CLINICAL PRACTICE AND RECOMMENDATIONS FOR THE PELVIS		
08:00 - 08:40 • Room 116		
CHAIR: <i>TBC</i>		
08:00	> Overview of dose volume parameters used in clinical practice and recommendations for the pelvis SPEAKER: <i>T. Rancati (Italy)</i>	SP-0411
■ TEACHING LECTURE		
MOLECULAR PATHOLOGY OF NORMAL TISSUE EFFECTS		
08:00 - 08:40 • Room 120-121		
CHAIR: <i>W. Dörr (Germany)</i>		
08:00	> Molecular pathology of normal tissue effects SPEAKER: <i>M. Vozenin (France)</i>	SP-0412
■ TEACHING LECTURE		
RADIOBIOLOGICAL PRINCIPLES OF RADIOTHERAPY: AN OVERVIEW		
08:00 - 08:40 • Room 118-119		
CHAIR: <i>M. Kamphuis (The Netherlands)</i>		
08:00	> Radiobiological principles of radiotherapy: an overview SPEAKER: <i>C. Schütze (Germany)</i>	SP-0413
■ SYMPOSIUM		
CRITICAL ASSESSMENT OF THE POTENTIAL OF RESEARCH STRATEGIES TO IMPROVE OUTCOME OF ADVANCED NSCLC		
LEARNING OBJECTIVES:		
1. To understand the limits of the current strategies for advanced non-small cell lung cancer but also the progress achieved over the last decades		
2. The importance of the 'quality' of the radiation technique		
3. The necessity to individualize the treatment		
08:45 - 10:00 • Auditorium		
CHAIR: <i>P. Van Houtte (Belgium)</i>		
Co-CHAIR: <i>M.G. Trovo (Italy)</i>		

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		Abs. NUMBER
08:45	> Image-guidance SPEAKER: <i>M. Brada (United Kingdom)</i>	SP-0414
09:03	> Dose escalation and fractionation in NSCLC SPEAKER: <i>M. Baumann (Germany)</i>	SP-0415
09:21	> Combined modalities including chemoradiation and molecular targeting SPEAKER: <i>R. Dziadziuszko (Poland)</i>	SP-0416
09:39	> Particle therapy for lung cancers SPEAKER: <i>Z. Liao (USA)</i>	SP-0417
■ SYMPOSIUM		
COMPLEX MULTI-MODEL APPROACHES: UPPER GI		
LEARNING OBJECTIVES:		
1. To learn about the benefits of preoperative treatment in upper GI cancer		
2. To learn about the combination of radiation with drugs		
3. To understand the need of a multidisciplinary approach in the treatment of upper GI cancer		
08:45 - 10:00 • Room 113-114		
CHAIR: <i>K. Haustermans (Belgium)</i>		
Co-CHAIR: <i>A. Hervás (Spain)</i>		
08:45	> Multidisciplinary management of operable gastric cancer SPEAKER: <i>M. Verheij (The Netherlands)</i>	SP-0418
09:10	> Complex multi-modal approaches for oesophagus and OGJ tumours SPEAKER: <i>L. Gunderson (USA)</i>	SP-0419
09:35	> Complex multi-model approaches for pancreatic tumours SPEAKER: <i>T. Brunner (United Kingdom)</i>	SP-0420

Saturday 12 May 2012

		ABS. NUMBER
■ SYMPOSIUM		
NOVEL DRUGS AND RT		
08:45 - 10:00 • Room 115		
CHAIR: <i>E. Moyal-Cohen-Jonathan (France)</i>		
Co-CHAIR: <i>I. Rodriguez-Melcon (Spain)</i>		
08:45	>	Synthetic lethal approaches to using drugs with radiation SPEAKER: <i>G. McKenna (United Kingdom)</i> SP-0421
09:03	>	The challenge of introducing biomarkers in phase 1-2 trials utilizing radiotherapy and novel targeted agents SPEAKER: <i>D. Hollywood (Ireland Republic of)</i> SP-0422
09:21	>	Design and conduct of early-phase radiotherapy trials with targeted therapeutics SPEAKER: <i>A.H. Ree (Norway)</i> SP-0423
09:39	>	The Head & Neck model: focus on clinical impact of translational research SPEAKER: <i>R. Corvò (Italy)</i> SP-0424

■ SYMPOSIUM
DOSIMETRY CHALLENGES WHEN MOVING AWAY FROM REFERENCE CONDITIONS

LEARNING OBJECTIVES:

1. To get an up to date understanding of the present status of photon and electron dosimetry
2. To understand the challenges of applying the concepts of existing codes to new radiotherapy technologies including those that require biological weighting factors
3. To understand the solutions for and future developments of dosimetry of those novel radiotherapy technologies

08:45 - 10:00 • Room 117CHAIR: *H. Palmans (United Kingdom)*Co-CHAIR: *F. Gomez (Spain)*

08:45	>	TRS-398 12 years later; review of data and applications to novel treatment units SPEAKER: <i>P. Andreo (Sweden)</i> SP-0425
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		ABS. NUMBER
09:03	>	Dosimetric commissioning of Linacs in VMAT mode SPEAKER: <i>K. Rosser (United Kingdom)</i> SP-0426
09:21	>	Dosimetry in strong magnetic fields; issues and opportunities SPEAKER: <i>B. Raaymakers (The Netherlands)</i> SP-0427
09:39	>	Dosimetric concepts based on particle track structure SPEAKER: <i>H. Rabus (Germany)</i> SP-0428

■ SYMPOSIUM
ULTRASOUNDS IN BRACHYTHERAPY

LEARNING OBJECTIVES:

1. To become familiar with the basics of ultrasound imaging including the potential and limitations especially for brachytherapy applications
2. To present an overview of the essential quality control steps to be used for US based treatment planning
3. To demonstrate practical issues of US based applicator implantation, treatment planning, verification and adaptation for prostate and gynaecological brachytherapy

08:45 - 10:00 • Room 116CHAIR: *C. Kirisits (Austria)*Co-CHAIR: *F. Pino (Spain)*

08:45	>	US physics: basics and new SPEAKER: <i>A. Evans (United Kingdom)</i> SP-0429
09:10	>	US for treatment planning in prostate brachytherapy SPEAKER: <i>P. Carrasco de Fez (Spain)</i> SP-0430
09:35	>	Ultrasound use in gynaecological brachytherapy: guidance, verification, optimisation, adaptation, efficiency. SPEAKER: <i>S. van Dyk (Australia)</i> SP-0431

Saturday 12 May 2012

..... ABS. NUMBER

■ SYMPOSIUM

NOVEL CLINICAL STRATEGIES TO REDUCE NORMAL TISSUE INJURY

LEARNING OBJECTIVES:

The session will cover the major axis of research ongoing in the field of normal tissue protection, from stem cell therapy to new targeted approaches (monoclonal antibodies)

08:45 - 10:00 • Room 120-121

CHAIR: *M. Vozenin (France)*

Co-CHAIR: *S. Benavente (Spain)*

- 08:45 > Stem cell therapy to ameliorate radiation damage in salivary glands
SPEAKER: *R. Coppes (The Netherlands)* SP-0432
- 09:10 > Attenuation and reversion of radiation induced fibrosis by an anti CTGF monoclonal antibody
SPEAKER: *P. Huber (Germany)* SP-0433
- 09:35 > Novel clinical approaches to reduce brain radiation injury
SPEAKER: *R. Tarnawski (Poland)* SP-0434

■ SYMPOSIUM

RADIOBIOLOGY PRINCIPLES: DOSE FRACTIONATION

LEARNING OBJECTIVES:

To provide knowledge and skills to:

1. Understand how different fractionation regimens can influence tumors and the OARs
2. Identify pros and cons of radiobiological strategies
3. Promote the efficacy of different radiation schemes on specific treatment sites

08:45 - 10:00 • Room 118-119

CHAIR: *F. Moura (Portugal)*

Co-CHAIR: *J.F. Calvo Ortega (Spain)*

- 08:45 > Radiobiological principles: what the RTT needs to know know->
SPEAKER: *M. Mangoni (Italy)* SP-0435
- 09:03 > Hyperfractionation: radiobiological basis for clinical practice
SPEAKER: *T. Rutkowski (Poland)* SP-0436

Saturday 12 May 2012

..... ABS. NUMBER

- 09:21 > Accelerated treatment in breast cancer
SPEAKER: *P. Koper (The Netherlands)* SP-0437
- 09:39 > Hypofractionation: general overview
SPEAKER: *J.R. Yarnold (United Kingdom)* SP-0438

■ POSTER DISCUSSION: 9

HEAD AND NECK

09:00 - 09:45 • Poster Area

CHAIR: *N. Di Muzio (Italy)*

Co-CHAIR: *E.M. Ozsahin (Switzerland)*

- > CTV margin in laryngeal and hypopharyngeal cancer: a histology study
J. Caldas-Magalhaes (The Netherlands), N. Kooij, N. Kasperts, F.A. Pameijer, C.H.J. Terhaard, C.P.J. Raaijmakers, M.E.P. Philippens PD-0439
- > The influence of tumor growth rate in laryngeal cancer on disease free survival
L.W. van Bockel (The Netherlands), E.M. Monnikhof, C.H.J. Terhaard PD-0440
- > Target volume delineation based on 18FDG PET for locally advanced head and neck cancer treated by chemo-radiotherapy
M. Leclerc (Belgium), E. Lartigau, T. Lacornerie, J. Daisne, V. Grégoire PD-0441
- > Hypothyroidism after head and neck 3DCRT and IMRT: prospective data from two randomized trials
V. Murthy (India), K. Narang, J.P. Agarwal, S. Ghosh-Laskar, T. Gupta, A. Budrukkar PD-0442
- > Pattern of loco-regional recurrences after primary IMRT of squamous cell carcinomas of the head and neck
R. Zukauskaitė (Denmark), C.R. Hansen, J.T. Asmussen, C. Brink, J. Johansen, J.G. Eriksen PD-0443

Saturday 12 May 2012

- | | ABS. NUMBER |
|---|-------------|
| > 18F-FLT PET; an early predictor of outcome after (chemo)radiotherapy in head and neck cancer
<i>B.A.W. Hoeben (The Netherlands), E.G.C. Troost, C.M. van Herpen, J. Bussink, W.J.G. Oyen, J.H.A.M. Kaanders</i> | PD-0444 |
| > Circulating tumor cells in locally advanced head and neck cancer: a possible tool to predict response to treatment?
<i>M. Buglione (Italy), G. Salvatore, C. Almici, M. Mangoni, C. Polli, F. Consoli, F. Paiar, N. Pasinetti, R. Verardi, S.M. Magrini</i> | PD-0445 |
| > Single vocal cord irradiation: a competitive treatment strategy in early glottic cancer: early results
<i>P. Levendag (The Netherlands), D.N. Teguh, P. Janssen, F. Keskin-Cambay, P. van Rooij, A. Al-Mamgani, B. Heijmen, S.L.S. Kwa, J.D.F. Kerrebijn</i> | PD-0446 |
| > Incidence and prognosis of HPV induced oropharyngeal cancer
<i>L. Cerezo (Spain), C. López Elzaurdia, A. de la Torre, D. Suarez, A. Hervás, A. Ruiz, C. Ballestín, M. López Cabrera</i> | PD-0447 |

■ SYMPOSIUM

COMPLEX MULTI-MODEL APPROACHES: LUNG

LEARNING OBJECTIVES:

1. To learn the impact of various combinations and sequences of radio- and chemotherapy on the outcome of locally advanced NSCLC
2. To position the role of post-operative radiotherapy in operable NSCLC patients
3. To define the role of targeted therapies in locally advanced NSCLC and learn how to improve the therapeutic ratio for this disease
4. To revisit the role of radiotherapy in the multi-disciplinary management of NSCLC

10:30 - 11:30 • Auditorium

CHAIR: *J. Bernier (Switzerland)*

Co-CHAIR: *TBC*

- | | | |
|-------|---|---------|
| 10:30 | > Chemoradiation in NSCLC: divided past, common future?
SPEAKER: <i>J. Belderbos (The Netherlands)</i> | SP-0448 |
|-------|---|---------|

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- | | | ABS. NUMBER |
|--------------------------------------|---|-------------|
| 10:50 | > Postop RT/ current guidelines and moving points
SPEAKER: <i>C. Le Pechoux (France)</i> | SP-0449 |
| 11:10 | > How to improve the therapeutic ratio for locally advanced non-small cell lung cancer (LANSCLC)
SPEAKER: <i>R. Komaki (USA)</i> | SP-0450 |
| ■ PROFFERED PAPERS | | |
| CLINICAL 6: GI | | |
| 10:30 - 11:30 • Room 113-114 | | |
| CHAIR: <i>J. Gérard (France)</i> | | |
| Co-CHAIR: <i>G. Mantello (Italy)</i> | | |
| 10:30 | > ACCORD 12 trial of neoadjuvant treatment in rectal cancer: clinical results at 3 years. On behalf of PRODIGE group
<i>J.P. Gérard (France), D. Azria, S. Gourgou-Bourgade</i> | OC-0451 |
| 10:40 | > Dose-response of tumour regression after pre-operative chemoradiotherapy for locally advanced rectal cancer
<i>A.L. Appelt (Denmark), J. Ploen, I.R. Vogelius, S.M. Bentzen, A. Jakobsen</i> | OC-0452 |
| 10:50 | > Positional variation of involved mesorectal lymph nodes during RT of rectal cancer
<i>B. Hollmann (The Netherlands), J. Nijkamp, J.J. Sonke, C.A.M. Marijnen</i> | OC-0453 |
| 11:00 | > Blood biomarkers predict response to chemoradiation: a prospective study on 260 rectal cancer patients
<i>J. Buijsen (The Netherlands), R.G. Van Stiphout, P.P.C.A. Menheere, G. Lammering, P. Lambin</i> | OC-0454 |
| 11:10 | > Multivariate prediction of follow-up outcome for patients with pancreatic cancer: a pooled data analysis
<i>G.C. Mattiucci (Italy), R.G.P.M. van Stiphout, S. Alfieri, F.A. Calvo, J.B. Dubois, B.W. Maidment 111, R.C. Miller, M. Reni, N. Sharma, M. Falconi</i> | OC-0455 |

Saturday 12 May 2012

- | | | ABS. NUMBER |
|-------|--|-------------|
| 11:20 | > Neoadjuvant chemoradiotherapy vs surgery for pancreatic cancer. A multi-centre randomised phase II trial
<i>T. Brunner (United Kingdom), H. Golcher, H. Witzigmann, L. Marti, W. Bechstein, C. Bruns, J. Hauss, S. Merkel, R. Fietkau, W. Hohenberger</i> | OC-0456 |

■ JOINT SYMPOSIUM

ESTRO-EORTC: QA IN CLINICAL TRIALS

LEARNING OBJECTIVES:

1. The central importance of quality assurance (Q/A) procedures as part of Clinical Trials
2. New developments in clinical trial quality assurance
3. A knowledge of the specific issues that related to radiotherapy Q/A and trial design

10:30 - 11:30 • Room 115

CHAIR: *D. Hollywood (Ireland Republic of)*

Co-CHAIR: *TBC*

- | | | |
|-------|---|---------|
| 10:30 | > QA and credentialing in clinical trials: global status and future challenges
SPEAKER: <i>C. Hurkmans (The Netherlands)</i> | SP-0457 |
| 10:50 | > A radiation oncologist view on trial QA
SPEAKER: <i>P. Scalliet (Belgium)</i> | SP-0458 |
| 11:10 | > QA makes a trial stronger: evidence-based medicine in radiation therapy
SPEAKER: <i>D.C. Weber (Switzerland)</i> | SP-0459 |

■ PROFFERED PAPERS

PHYSICS 9: NON-RIGID REGISTRATION APPLICATIONS IN RADIOTHERAPY

10:30 - 11:30 • Room 117

CHAIR: *S.R. van Kranen (The Netherlands)*

Co-CHAIR: *M. Ortiz Seidel (Spain)*

- | | | |
|-------|--|---------|
| 10:30 | > Optimal registration method of MRI and CT for delineation in radiotherapy planning for breast conserving therapy
<i>A.L. Petoukhova (The Netherlands), M.E. Mast, E. Kouwenhoven, W.P.A. Jansen, A.N. Scholten, H. Struikmans</i> | OC-0460 |
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- | | | ABS. NUMBER |
|-------|---|-------------|
| 10:40 | > Structure-specific flexibility improves anatomical accuracy for bladder cancer deformable registration
<i>S. Wognum (The Netherlands), L. Bondar, A. Zolnay, X. Chai, M. Hoogeman, A. Bel</i> | OC-0461 |
| 10:50 | > Accurate CT/MR vessel-guided non-rigid registration of largely deformed livers
<i>E.M. Vasquez Osorio (The Netherlands), M.S. Hoogeman, A. Mendez Romero, P. Wielopolski, A. Zolnay, B.J.M. Heijmen</i> | OC-0462 |
| 11:00 | > Nodal CTV deformation cannot be neglected in highly conformal radiotherapy of cervical cancer patients
<i>L.A. Velema (The Netherlands), M.L. Bondar, J.W. Mens, M.S. Hoogeman</i> | OC-0463 |
| 11:10 | > A population-based model to simulate and predict day-to-day variations in rectum shape during prostate RT
<i>H. van der Werf (The Netherlands), M. van Herk, J. Pluim</i> | OC-0464 |
| 11:20 | > VALDiCT: a comprehensive quantitative verification method for deformable image registration in radiotherapy
<i>P.W.H. Wittendorp (The Netherlands), R.J.H.M. Steenbakkers, A. van der Schaaf, J.A. Langendijk, A.A. van 't Veld, N.M. Sijtsema</i> | OC-0465 |

■ PROFFERED PAPERS

PHYSICS 10: DOSE RECONSTRUCTION AND CALCULATION

10:30 - 11:30 • Room 116

CHAIR: *A. Ahnesjö (Sweden)*

Co-CHAIR: *M. Bueno (Spain)*

- | | | |
|-------|--|---------|
| 10:30 | > Virtual source modelling of photon beams for Monte Carlo based radiation therapy treatment planning
<i>M. Sikora (Norway), M. Alber</i> | OC-0466 |
| 10:40 | > The impact of the MLC modeling for IMRT and VMAT on a patient specific level
<i>M. Sjölin (Denmark), J.M. Edmund, U. Bjelkengren, D. Sjöström, C.F. Behrens</i> | OC-0467 |

Saturday 12 May 2012

		ABS. NUMBER
10:50	> Monte Carlo for Quality Assurance of Dose Calculation Accuracy in Seventy Lung SBRT Plans <i>E. Soisson (Canada), A. Alexander, J. Seuntjens</i>	OC-0468
11:00	> Ultra-fast dose calculation for local dose variations in real-time interactive treatment planning <i>P. Ziegenhein (Germany), C.P. Kamertling, H. Heinrich, U. Oelfke</i>	OC-0469
11:10	> Dose comparison between different respiratory phases during lung VMAT delivery using in-treatment 4D cone-beam CT <i>N. Saotome (Japan), A. Sakumi, S. Kida, T. Onoe, A. Haga, Y. Masutani, K. Ohtomo, H. Yamashita, K. Nakagawa</i>	OC-0470
11:20	> Reconstruction accumulated dose on free-breathing motion for abdomen tumors using COMPASS system <i>C. Ma (China), Y.O.N.G. Yin</i>	OC-0471

■ PROFFERED PAPERS

RADIOBIOLOGY 4: NORMAL TISSUE

10:30 - 11:30 • Room 120-121

CHAIR: *F. Stewart (The Netherlands)*Co-CHAIR: *N. Cordes (Germany)*

10:30	> Effects of gamma irradiation on collagen damage and remodeling <i>A. Maslennikova (Russian Federation), M. Kochueva, N. Ignatjeva, O. Zakharkina, V. Kamensky, E. Sergeeva, V. Bagratashvili</i>	OC-0472
10:40	> Rectal toxicity 6 yrs after high-dose RT for prostate cancer: clinical and dosimetric predictors <i>T. Rancati (Italy), C. Fiorino, G. Fellin, V. Vavassori, E. Cagna, F. Mauro, G. Girelli, R. Valdagni</i>	OC-0473
10:50	> Cardio-pulmonary consequences of thoracic irradiation in rats <i>R.P. Coppes, G. Ghodabi, S. van der Veen, H. Faber, B. Bartelds, R.A. de Boer, M.G. Dickinson, S. Brandenburg, J.A. Langendijk, P. van Luijk (The Netherlands)</i>	OC-0474

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

Saturday 12 May 2012

		ABS. NUMBER
11:00	> The use of IMRT reduces late nephrotoxicity after chemoradiotherapy for gastric cancer <i>A.K. Trip (The Netherlands), J. Nijkamp, A. Cats, H. Boot, M. Verheij, E.P.M. Jansen</i>	OC-0475
11:10	> Severe radiation pneumonitis in locally advanced NSCLC when moving from 3D-CRT to IMRT: A question of constraints <i>A.A. Khalil (Denmark), M.M. Knap</i>	OC-0476
11:20	> Random forest versus published NTCP models for rectal toxicity prediction <i>J.D. Ospina (France), J. Zhu, E. Le Prisé, A. Bossi, T. Messai, K. Gnep, V. Beckendorf, O. Acosta, A. Simon, R. de Crevoisier</i>	OC-0477

■ PROFFERED PAPERS

RTT 4: TREATMENT PLANNING: SPARING THE ORGANS AT RISK

10:30 - 11:30 • Room 118-119

CHAIR: *c. Beardmore (United Kingdom)*Co-CHAIR: *E. Martinez Perez (Spain)*

10:30	> Swallowing-sparing IMRT for head and neck cancer: treatment planning optimisation and clinical introduction <i>H.P. van der Laan (The Netherlands), R.J.H.M. Steenbakkers, M.E.M.C. Christianen, E.W. Korevaar, O. Chouvalova, K. Wopken, A. Gawryszuk, H.P. Bijl, J.A. Langendijk</i>	OC-0478
10:40	> Impact of dose to the PCMs, PGs and SMGs on QoL in head and neck RT: a dosimetric analysis <i>M. Leech (Ireland Republic of), M. Coffey, D. Hollywood</i>	OC-0479
10:50	> The simultaneous integrated boost (SIB) technique in breast cancer: advantages and a limited learning curve <i>N. Groenendaal, S. Hol, M. Essers, W. Smits, P. Poortmans (The Netherlands)</i>	OC-0480
11:00	> Benefit of deep inspiration breath-hold in patients treated with radiotherapy for left-sided breast cancer <i>A. Ziouech (France), A. Mege, V. Bodez, G. De Rauglaudre</i>	OC-0481

Saturday 12 May 2012

		ABS. NUMBER
11:10	> IMRT enables further cardiac dose reduction in left sided breast conserving RT using breath hold <i>H. Rozema (The Netherlands), Y. Kalidien, M. Mast, J. Egmond van, M. Heijnenbrok, L. Kempen van, A. Petoukhova, W. Jansen, A. Scholten, H. Struikmans</i>	OC-0482
11:20	> A planning comparison of intensity-modulated radiotherapy techniques for left-sided breast cancer <i>M. Jeulink (The Netherlands), M. Dahele, B.J. Slotman, W.F.A.R. Verbakel</i>	OC-0483

■ POSTER DISCUSSION: 10

MOTION MANAGEMENT

10:30 - 11:15 • Poster Area

CHAIR: *M. van Herk (The Netherlands)*

CO-CHAIR: *G. Meijer (The Netherlands)*

- > Initial clinical assessment of a gimbaled linac tumor tracking system in a patient simulation study
T. Depuydt (Belgium), K. Poels, B. Engels, C. Haverbeke, T. Gevaert, G. Van Gompel, N. Buls, F. Vandenbroucke, D. Verellen, M. De Ridder
PD-0484
- > Dosimetric evaluation of the intrafraction prostate motion during hypo-fractionated robotic radiosurgery
S. Van de Water (The Netherlands), L. Valli, B.J.M. Heijmen, M.S. Hoogeman
PD-0485
- > Film dosimetric validation of dose distribution calculations for moving targets in dynamic treatments
M. Schmidt (Denmark), L. Hoffmann, E. Worm, P.R. Poulsen
PD-0486
- > Deep-inspiration breath-hold reduces the risk of cardiac toxicity and secondary lung cancer after Hodgkin lymphoma
M.C. Aznar (Denmark), M.V. Maraldo, N.P. Brodin, M. Josipovic, P.M. Petersen, I.R. Vogelius, A.K. Berthelsen, A. Loft, S.M. Damkjaer, L. Specht
PD-0487

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		ABS. NUMBER
	> Routine real-time image-guided verification of breath hold in breast cancer patients <i>H. de Boer (The Netherlands), H.J.G. van den Bongard, W. de Kruijf, B. van Asselen</i>	PD-0488
	> Patient immobilization and target motion management for fractionated intracranial and uveal robotic radiosurgery <i>O. Blanck (Germany), S. Seifert, S. Wurster, K. Wolff, A. Zhivov, D. Rasche, D. Rades, V. Tronnier, R. Guthoff, G. Hildebrandt</i>	PD-0489
	> Clinical evaluation of a laser surface scanning system in 120 patients for improving daily setup accuracy <i>T. Moser (Germany), K. Schubert, G. Sroka-Perez, M. Uhl, G. Habl, K. Herfarth, J. Debus, C.P. Karger</i>	PD-0490
	> 3D local rectal displacements during radio-chemotherapy of rectal cancer: reduced motion during treatment <i>C. Salvetti (Italy), E. Scalco, C. Fiorino, P. Passoni, S. Broggi, E. Maggulli, N. Slim, N. Di Muzio, G. Rizzo, R. Calandrino</i>	PD-0491
	> Seroma volume change as an indicator for the need of replanning during adaptive RT of breast cancer <i>G. Franssen (The Netherlands), T. Alderliesten, Z. van Kesteren, P. Elkhuizen, S. Conijn, A. Duijn, T. Janssen, P. Remeijer, C. van Vliet-Vroegindeweij</i>	PD-0492

■ HONORARY MEMBERS LECTURES

11:45 - 12:30 • Auditorium

CHAIR: *V. Valentini (Italy)*

CO-CHAIR: *J. Bourhis (France)*

CO-CHAIR: *D. Hollywood (Ireland Republic of)*

- | | | |
|-------|--|---------|
| 11:45 | > The battle against nasopharyngeal cancer
SPEAKER: <i>A.W.M. Lee (Hong Kong (SAR) China)</i> | SP-0493 |
|-------|--|---------|

Saturday 12 May 2012

- | | | ABS. NUMBER |
|-------|---|-------------|
| 11:57 | > Radiation can be a surgeons best tool
SPEAKER: <i>P. Naredi (Sweden)</i> | SP-0494 |

■ KLAAS BREUR AWARD LECTURE

25 YEARS OF CLINICAL TRIALS FOR TAILORING EXTERNAL IRRADIATION OF LOCALIZED PROSTATE CANCER (PCA)

12:30 - 13:00 • Auditorium

CHAIR: *V. Valentini (Italy)*

- | | | |
|-------|--|---------|
| 12:30 | > 25 years of clinical trials for tailoring external irradiation of localized prostate cancer (PCa)
SPEAKER: <i>M. Bolla (France)</i> | SP-0495 |
|-------|--|---------|

■ PROFFERED PAPERS

CLINICAL 7: LUNG

14:30 - 15:45 • Auditorium

CHAIR: *J. Barrett (United Kingdom)*

Co-CHAIR: *TBC*

- | | | |
|-------|--|---------|
| 14:30 | > Risk factors for local and regional recurrence in patients with resected N0-N1 non-small cell lung cancer
<i>J.L. Lopez Guerra (Spain), D.R. Gomez, S.H. Lin, L.B. Levy, Y. Zhuang, R. Komaki, S.G. Swisher, J.D. Cox, Z. Liao, C. Rice</i> | OC-0496 |
| 14:40 | > NSCLC: Tumor size - radiation dose related accelerated (1.8 Gy bid) therapy - final results of a prospective study
<i>K. Wurstbauer (Austria), H. Deutschmann, K. Dagn, P. Kopp, B. Lamprecht, P. Porsch, B. Wegleitner, M. Studnicka, F. Sedlmayer</i> | OC-0497 |
| 14:50 | > Concurrent chemoradiotherapy with or without Cetuximab in NSCLC; toxicity results of a randomized phase II trial
<i>J. Belderbos (The Netherlands), W. Uyterlinde, A. Vincent, J. Aerts, H. Codrington, P. van de Vaart, P. Kunst, E. Dieleman, M. Verheij, M. van den Heuvel</i> | OC-0498 |

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- | | | ABS. NUMBER |
|-------|--|-------------|
| 15:00 | > Prognostic impact of radiation therapy to the primary tumor in patients with oligometastatic lung cancer
<i>D.R. Gomez (USA), J.L. Lopez Guerra, Y. Zhuang, D.S. Hong, J.V. Heymach, S.G. Swisher, S.H. Lin, R. Komaki, J.D. Cox, Z. Liao</i> | OC-0499 |

- | | | |
|-------|---|---------|
| 15:10 | > Clinical and dosimetric predictors of late esophagus toxicity after IMRT and concurrent chemotherapy for NSCLC
<i>C. Chen (The Netherlands), W. Uyterlinde, J. de Bois, M.M. van den Heuvel, M. van Herk, J.J. Sonke, J. Belderbos</i> | OC-0500 |
|-------|---|---------|

- | | | |
|-------|---|---------|
| 15:20 | > Irradiation of the left ventricle of the heart is correlated with post-treatment dyspnea in NSCLC patients
<i>R. van Stiphout (The Netherlands), G. Nalbantov, D. De Ruyscher, K. Vandecasteele, A. Gulyban, W. De Neve, A. Dekker, B. Hanbeukers, C. Oberije, P. Lambin</i> | OC-0501 |
|-------|---|---------|

■ PROFFERED PAPERS

CLINICAL 8: HEAD AND NECK

14:30 - 15:45 • Room 113-114

CHAIR: *S. Magrini (Italy)*

Co-CHAIR: *TBC*

- | | | |
|-------|---|---------|
| 14:30 | > Dose-response of hypothyroidism after primary radiotherapy in carcinoma of the head and neck (HNSCC)
<i>M.F. Roenjom (Denmark), C. Brink, L. Hegedüs, J. Overgaard, J. Johansen</i> | OC-0502 |
| 14:40 | > QUANTEC dose volume constraints for parotid glands are feasible only in a minority of H&N patients treated with IMRT
<i>R.J.H.M. Steenbakkers (The Netherlands), I. Beetz, O. Chouvalova, P. Doornaert, D. Rietveld, B.F.A.M. van der Laan, A. Vissink, H.P. Bijl, P. van Luijk, J.A. Langendijk</i> | OC-0503 |
| 14:50 | > A predictive model for tube feeding dependence after curative (chemo-) radiation in head and neck cancer patients
<i>K. Wopken (The Netherlands), H.P. Bijl, P. Doornaert, M.E.M.C. Christianen, S.F. Oosting, D.H. Rietveld, C. Schilstra, R.J.H.M. Steenbakkers, I.M. Verdonck-de Leeuw, J.A. Langendijk</i> | OC-0504 |

Saturday 12 May 2012

		Abs. NUMBER
15:00	> A predictive model for dysphagia during IMRT in head and neck cancer: introduction of the EMLasso technique <i>K. De Ruyck (Belgium), F. Duprez, J. Werbrouck, N. Sabbe, S. De Langhe, T. Boterberg, I. Madani, O. Thas, W. De Neve, H. Thierens</i>	OC-0505
15:10	> Radiosensitizing effect of rosiglitazone in head-neck carcinoma and protection in radiation-induced mucositis <i>M. Mangoni (Italy), M. Sottili, C. Gerini, S. Pallotta, C. Bastida, C. Franzese, S. Cassani, T. Masoni, L. Livi, G.P. Biti</i>	OC-0506
15:20	> How many chemotherapy cycles during chemoradiotherapy for head and neck carcinoma? a GORTEC trial <i>J. Bourhis (France), C. Sire, P. Graff, V. Gregoire, P. Maingon, M. Lapeyre, G. Calais, B. Gery, L. Martin, A. Auperin</i>	OC-0507

■ SYMPOSIUM

EXTREME HYPOFRACTIONATION

LEARNING OBJECTIVES:

1. To overview the cellular and molecular aspects of high dose radiotherapy
2. To discuss the dosimetry challenges with high dose rate and small beams
3. To evaluate the role of pulsed irradiation based on normal tissue response
4. To identify evidence for protocols of extreme hypo fractionation

14:30 - 15:45 • Room 115

CHAIR: *R. Orecchia (Italy)*Co-CHAIR: *M. Rubio (Spain)*

14:30	> Biological consideration of high dose per fraction SPEAKER: <i>F. Paris (France)</i>	SP-0508
14:48	> High dose rate: a new opportunity? SPEAKER: <i>V. Favaudon (France)</i>	SP-0509
15:06	> Managing the delivery of high dose per fraction SPEAKER: <i>P. Munck af Rosenschöld (Denmark)</i>	SP-0510
15:24	> Assessment of effect and outcome SPEAKER: <i>C. Greco (Italy)</i>	SP-0511

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		Abs. NUMBER
■ PROFFERED PAPERS		
PHYSICS 11: SMALL FIELDS DOSIMETRY		
14:30 - 15:45 • Room 117		
CHAIR: <i>M.M. Aspradakis (Switzerland)</i>		
Co-CHAIR: <i>TBC</i>		
14:30	> Modifying detector designs for small field dosimetry <i>T. Underwood (United Kingdom), H. Winter, J. Fenwick, M. Hill</i>	OC-0512
14:40	> Diode detector modelling for small field dosimetry and correction factor sensitivity to source parameterization <i>G. Cranmer-Sargison (Canada), S. Weston, J.A. Evans, N.P. Sidhu, D.I. Thwaites</i>	OC-0513
14:50	> Diode correction factors in small fields determined with air core fibre optic scintillation dosimeter and EBT2 film <i>A. Ralston (Australia), P. Liu, K. Warrener, D. McKenzie, N. Suchowerska</i>	OC-0514
15:00	> Ionization chamber correction factors in Yomotherapy and Cyberknife <i>A. Gago-Arias (Spain), J. Pardo-Montero, R. Rodríguez-Romero, P. Sánchez-Rubio, L. Núñez, H. Palmans, P. Sharpe, F. Fayos, E. Antolín, R. Simón</i>	OC-0515
15:10	> A sub-millimeter plastic scintillation detector for small field measurements delivered by a CyberKnife unit <i>J. Morin (Canada), D. Béliveau-Nadeau, E. Chung, J. Seuntjens, L. Archambault, S. Beddar, L. Beaulieu</i>	OC-0516
15:20	> Small field dosimetry using optical-fiber radioluminescence and RADPOS dosimetry systems <i>N. Ploquin (Canada), G. Kertzscher, E. Vandervoort, C.E. Andersen, J. Cygler</i>	OC-0517
15:30	> Application of the new IAEA-AAPM dosimetry formalism to clinical IMRT quality assurance <i>E. Chung (Canada), R. Ruo, J. Seuntjens</i>	OC-0518

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■ SYMPOSIUM

PET AND MR IMAGING POSSIBILITIES AND PITFALLS WHEN USED FOR RT

LEARNING OBJECTIVES:

1. To become familiar with the use of MRI and PET for RT planning
2. To learn about challenges of quantitative imaging
3. To learn about new imaging developments relevant for RT planning

14:30 - 15:45 • Room 116CHAIR: *K. Tanderup (Denmark)*Co-CHAIR: *P. Carrasco de Fez (Spain)*

- 14:30 > Impact of image reconstruction and quantitative analysis on PET for RT planning
SPEAKER: *D. Thorwarth (Germany)* SP-0519
- 14:55 > The use of MRI in RT planning: potential, pitfalls and solutions
SPEAKER: *R. Wirestam (Sweden)* SP-0520
- 15:20 > Dynamic and diffusion weighted MRI: how to use it for RT
SPEAKER: *E. Malinen (Norway)* SP-0521

■ SYMPOSIUM

**HETEROGENEITY IN TREATMENT RESPONSE:
THE WAY TO PERSONALISED TREATMENT**

LEARNING OBJECTIVES:

1. To understand targeted therapies in oncology
2. To get an insight in potential biomarkers for response
3. To understand tumor hypoxia and possible biomarkers for its radiosensitization

14:30 - 15:45 • Room 120-121CHAIR: *G. Lammering (The Netherlands)*Co-CHAIR: *J. Gomez-Millan Barrachina (Spain)*

- 14:30 > EGFR signaling as a basis for personalize medicine
SPEAKER: *M. Krause (Germany)* SP-0522
- 14:55 > The importance of RAS mutations for targeted therapy in colon cancer
SPEAKER: *K. Haustermans (Belgium)* SP-0523

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- 15:20 > Hypoxia signatures predict benefit from radiosensitizers
SPEAKER: *J. Alsner (Denmark)* SP-0524

■ SYMPOSIUM

RADIOBIOLOGY PRINCIPLES: DOSE MODIFIERS

LEARNING OBJECTIVES:

1. To become familiar with how dose modifiers work, the therapeutic gain in RT as well as the limitations and the implications for the clinic
2. To understand the effect of the time interval between RT and drugs with regards to the effect on tumor control and normal tissue damage and the pharmacological considerations
3. To appreciate the benefit of radioprotectors with regards to biological mechanisms and the efficacy with regard to reduction of side effects as well as the potential risks

14:30 - 15:45 • Room 118-119CHAIR: *G. McColl (The Netherlands)*Co-CHAIR: *M.A. Gambacorta (Italy)*

- 14:30 > Is there a need for interval between drug and radiotherapy delivery?
SPEAKER: *F. Herrera (Switzerland)* SP-0525
- 14:55 > Opportunities of dose modifiers: illustrating the concepts and outlining the future
SPEAKER: *C. Vens (The Netherlands)* SP-0526
- 15:20 > Radioprotectors: general overview
SPEAKER: *H. Langendijk (The Netherlands)* SP-0527

■ POSTER DISCUSSION: 11
PREDICTIVE AND SNP**14:45 - 15:30 • Poster Area**CHAIR: *J. Jaal (Estonia)*Co-CHAIR: *P. van Luijk (The Netherlands)*

- > Germline MRE11 variants predictive of radiotherapy outcomes in bladder cancer by next-generation sequencing
M.T.W. Teo (United Kingdom), H. Snowden, J. Nsengimana, M. Harland, J. Morgan, I. Carr, G. Taylor, J. Barrett, D.T. Bishop, A.E. Kiltie PD-0528

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- | | ABS. NUMBER |
|--|-------------|
| > Among 45 variants in 11 genes, HDM2 polymorphisms emerge as new candidate SNPs associated with radiation toxicity
<i>G. Alsbeih (Saudi Arabia), N. Al-Harbi, L.A. Venturina, K. Al-Hadyan, M. El-Sebaie, N. Al-Rajhi</i> | PD-0529 |
| > Proteomic identification of putative biomarkers of radiotherapy resistance
<i>L. Scaife (United Kingdom), V.C. Hodgkinson, D. ELFadl, S. Mehmood, I.A. Hunter, G.P. Liney, A.W. Beavis, P.J. Drew, M.J. Lind, L. Cawkwell</i> | PD-0530 |
| > SNPs in DNA repair and damage detection genes and acute normal tissue toxicity in prostate cancer patients
<i>L. Fachal (Spain), A. Gómez-Caamaño, P. Peleteiro, A. Carballo, P. Calvo-Crespo, M. Sánchez-García, B. Taboada-Valladares, R. Lobato-Busto, A. Carracedo, A. Vega</i> | PD-0531 |
| > ⁶⁴ Cu-radiolabeled octreotate as a theranostic agent for cancer: role of p53 in the therapeutic response
<i>A. Chang (USA), K. Nguyen, B. Rogers, R. Laforest, C.J. Anderson</i> | PD-0532 |
| > Pre-treatment nocturia, radical prostatectomy and TGFβ1 SNPs are associated with radiation-induced nocturia
<i>S. De Langhe (Belgium), K. De Ruyck, P. Ost, V. Fonteyne, J. Werbroeck, G. De Meerleer, W. De Neve, H. Thierens</i> | PD-0533 |
| > Major vault protein as a prognosis factor in cervical carcinoma tumours treated with radiotherapy
<i>L.A. Henríquez-Hernández (Spain), A. Valenciano, M. Lloret, B. Clavo, B. Pinar, P.C. Lara</i> | PD-0534 |
| > Prognostic effect of RAD51 and EGFR on survival in colorectal adenocarcinoma
<i>K. Borgmann (Germany), R. Fresow, P. Tennstedt, R. Simon, A. Marx, G. Sauter, L. Terracciano, C. Petersen, E. Dikomey</i> | PD-0535 |

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- | | ABS. NUMBER |
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| ■ JOINT SYMPOSIUM
ESTRO-EANM: THE FUTURE OF RADIO-ISOTOPE THERAPIES (BONE METS, THYROID, NEUROENDOCRINE, LYMPHOMA)
LEARNING OBJECTIVES:
1. To understand the potential role of radiolabelled antibodies and target treatments in the treatment of malignancy
2. To review the issues relating to dosing and timing of the pretargeting agents
3. To understanding the particular issues relating to dosimetry in radiopharmaceutical treatment | |
| 16:15 - 17:15 • Auditorium
CHAIR: <i>D. Hollywood (Ireland Republic of)</i>
Co-CHAIR: <i>W. Oyen (The Netherlands)</i> | |
| 16:15 > Radium-223 in the treatment of advanced prostate cancer
SPEAKER: <i>V. Lewington (United Kingdom)</i> | SP-0536 |
| 16:35 > Translational studies on pretargeted radioimmunotherapy of colorectal cancer
SPEAKER: <i>O. Boerman (The Netherlands)</i> | SP-0537 |
| 16:55 > Radiolabelled somatostatin analogues in neuroendocrine tumours
SPEAKER: <i>F. Jamar (Belgium)</i> | SP-0538 |
| ■ SYMPOSIUM
EU PROJECTS
16:15 - 17:30 • Room 113-114
CHAIR: <i>J. Bourhis (France)</i> | |
| 16:15 > ARTFORCE Consortium: an update
SPEAKER: <i>C. Rasch (The Netherlands)</i> | SP-0539 |
| 16:30 > ARTFORCE: adaptive radiotherapy
SPEAKER: <i>J. Sonke (The Netherlands)</i> | SP-0540 |
| 16:45 > The ANDANTE Project: refining risk estimates from neutrons
SPEAKER: <i>A. Ottolenghi (Italy)</i> | SP-0541 |
| 17:00 > The risk of second cancers following proton therapy
SPEAKER: <i>K. Trott (United Kingdom)</i> | SP-0542 |

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■ JOINT SYMPOSIUM

ESTRO-ASTRO: NEW TECHNOLOGIES IN RADIATION ONCOLOGY ARE ALWAYS BETTER: FACT OF FICTION?

LEARNING OBJECTIVES:

1. To collect the available evidence of the clinical impact of new technologies in the tumor where their application was extended
2. To have an insight on the main goals of new technologies some years after their first clinical implementation
3. To perceive the limitations, pitfall and uncertainties in the implementation of new technologies
4. To be informed on the ongoing clinical perspective validation of their impact

16:15 - 17:15 • Room 115CHAIR: *V. Valentini (Italy)*Co-CHAIR: *L. Gunderson (USA)*

- 16:15 > Protons - yo have or not to have, that is the question?
SPEAKER: *L. Gunderson (USA)* SP-0543
- 16:35 > IMRT: the potential use and benefit of dose escalation
SPEAKER: *C. Belka (Germany)* SP-0544
- 16:55 > IGRT: the challenge and potential for intra-prostatic boosts
SPEAKER: *T. Budiharto (The Netherlands)* SP-0545

■ DEBATE

THIS HOUSE BELIEVES THAT 1% IMPROVED DOSIMETRIC ACCURACY IS MORE VALUABLE THAN 1 MM LESS PTV MARGIN**16:15 - 17:15 • Room 117**CHAIR: *D. Verellen (Belgium)*Co-CHAIR: *I. Modolell i Farré (Spain)*

- 16:15 > For the motion
SPEAKER: *M. Schwarz (Italy)* SP-0546
- 16:35 > 1% improved dosimetric accuracy is more valuable than 1 mm less PTV margin - against the motion
SPEAKER: *M. van Herk (The Netherlands)* SP-0547

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■ PROFFERED PAPERS

PHYSICS 12: TREATMENT PLANNING AND OPTIMISATION**16:15 - 17:15 • Room 116**CHAIR: *F. Lohr (Germany)*Co-CHAIR: *M. Hermida Lopez (Spain)*

- 16:15 > Towards fully automated multi-criterial plan generation: a prospective clinical study
P. Voet, M.L.P. Dirkx (The Netherlands), S. Breedveld, D. Fransen, P.C. Levendag, B.J.M. Heijmen OC-0548
- 16:25 > Is it possible to produce acceptable IMRT plans free from planner bias using an automated planning technique?
C. Stanford (United Kingdom), C. Boylan, C. Rowbottom OC-0549
- 16:35 > Beam orientation in stereotactic radiosurgery using artificial neural network
A. Skrobala (Poland) OC-0550
- 16:45 > Preoperative accelerated partial breast irradiation: VMAT versus IMRT comparison using pareto fronts
A. Wolf (The Netherlands), T. Janssen, A. Duijn, P. Elkhuisen, S. Vreeswijk, E. Damen, C. van Vliet-Vroegindewij OC-0551
- 16:55 > Dose painting by numbers: how many segments are needed to create clinically acceptable plans?
D. Schuring (The Netherlands), J. Steenhuijsen, M. Bal, G. Meijer OC-0552
- 17:05 > Fast Monte-Carlo based IMRT planning for the MRI linear accelerator (MRL)
G.H. Bol (The Netherlands), S. Hissoiny, J.J.W. Lagendijk, B.W. Raaymakers OC-0553

Saturday 12 May 2012

		ABS. NUMBER
■ DEBATE		
THIS HOUSE BELIEVES THAT SNPS WILL BE USEFUL PREDICTORS OF NORMAL TISSUE RESPONSE IN THE FUTURE		
16:15 - 17:15 • Room 120-121		
CHAIR: <i>J. Overgaard (Denmark)</i>		
Co-CHAIR: <i>L.A. Henríquez Hernández (Spain)</i>		
16:15	> For the motion SPEAKER: <i>C. West (United Kingdom)</i>	SP-0554
16:35	> SNPs for prediction of normal tissue complication risk -- probably not the quick fix that we once imagined SPEAKER: <i>C.N. Andreassen (Denmark)</i>	SP-0555
16:55	> SNPs will be useful predictors of normal tissue response in the future - Conclusions for the motion SPEAKER: <i>M.B. Parliament (Canada)</i>	SP-0556
17:05	> Against the motion - Go for big and not for little SPEAKER: <i>E. Dikomey (Germany)</i>	SP-0557

■ PROFFERED PAPERS**RTT 5: TREATMENT PLANNING AND DOSE CALCULATION****16:15 - 17:15 • Room 118-119**CHAIR: *TBC*Co-CHAIR: *H.P. van der Laan (The Netherlands)*

16:15	> Total marrow irradiation with volumetric modulated arc therapy: early experience and practical considerations <i>P. Mancosu (Italy), P. Navarria, G. Reggiori, S. Castiglioni, C. Pellegrini, M. Catalano, F. Lobefalo, A. Fogliata, L. Cozzi, M. Scorsetti</i>	OC-0558
16:25	> To arc or not to arc; comparing dose to the bowel for patients receiving radiation therapy for spinal cord compression <i>D.A. Schut (Denmark), M.C. Aznar, J.P. Bangsgaard, S.A. Engelholm</i>	OC-0559

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		ABS. NUMBER
16:35	> The accuracy and clinical quality of stereotactic lung RapidArc planning in Eclipse using Acuros and AAA <i>M. Essers (The Netherlands), P. Kroon, S. Hol, G. D'Olieslager</i>	OC-0560
16:45	> Whole brain irradiation with hippocampal sparing and dose escalation on multiple brain metastases <i>F. Fels (Germany), N. Wiedenmann, M. Schmucker, C. Nieder, A.L. Grosu, V. Prokic</i>	OC-0561
16:55	> Monte Carlo dose planning for total body irradiation <i>M. Krantz (Sweden), K. Müntzing, R. Chakarova</i>	OC-0562
17:05	> Planning abutting fields in proton therapy delivered with pencil beam scanning: assessment of a commercial TPS <i>F.F. Fellin (Italy), S.M. Schwarz</i>	OC-0563

**■ POSTER DISCUSSION: 12
GI AND HEALTH ECONOMICS****16:15 - 17:00 • Poster Area**CHAIR: *P. Scalliet (Belgium)*Co-CHAIR: *TBC*

>	The Malthus Programme: a new model for simulation of evidence-based radiotherapy demand in England <i>R. Jena (United Kingdom), C.E. Round, T. Mee, N.F. Kirkby, T. Cooper, P. Hoskin, M.V. Williams</i>	PD-0564
>	Diffusion-weighted MR imaging for patient selection for organ-sparing treatment in locally advanced rectal cancer <i>M. Intven (The Netherlands), O. Reerink, M.E.P. Philippens</i>	PD-0565
>	Preoperative chemoradiation for unresectable rectal cancer: Interim analysis of a multicentre randomized study <i>K. Bujko (Poland), A. Nasierowska-Guttmejer, L. Wyrwicz, A. Rutkowski, T. Lesniak, M. Bebenek, M. Kryj, A. Radkowski, W. Markiewicz, E. Cieslak-Zeromska</i>	PD-0566

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- | | ABS. NUMBER |
|---|-------------|
| > Biometric identification of radiotherapy patients
<i>E. Lartigau (France)</i> | PD-0567 |
| > Phase II study of neo adjuvant treatment with Avastin, Xeloda and Eloxatin in rectal cancer (AXE BEAM)
<i>A. Debucquoy (Belgium), M. Verstraete, G. Chiritescu, K. Dumon, P. Vergauwe, J.P. Machiels, F. Penninckx, X. Sagaert, E. Van Cutsem, K. Haustermans</i> | PD-0568 |
| > A population-based study of radiosurgery for brain metastases: factors limiting use among eligible patients
<i>D. Hodgson (Canada), A. Charpentier, A. Ng, G. Bahl, C. Menard, J. San Miguel</i> | PD-0569 |
| > Nomogram predicting survival after R0 gastrectomy: validation in patients with postoperative chemoradiation
<i>J.L. Dikken (USA), D.G. Coit, R.E. Baser, M. Gönen, M.F. Brennan, E.P.M. Jansen, H. Boot, C.J.H. van de Velde, A. Cats, M. Verheij</i> | PD-0570 |
| > Rapid learning in practice: validation of an EU population-based prediction model in USA trial data for H&N cancer
<i>A. Dekker (The Netherlands), W. Wiessler, Y. Xiao, B. Krishnapuram, B. Rao, E. O'Meara, E. Velazquez, J. Galvin, W. Curran Jr, P. Lambin</i> | PD-0571 |

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- | | ABS. NUMBER |
|---|-------------|
| ■ TEACHING LECTURE
CURRENT PRACTICE AND MOVING POINTS: PRIMARY BRAIN
08:30 - 09:10 • Room 112
CHAIR: <i>M. Brada (United Kingdom)</i>
08:30 > Current practice and moving points: primary brain
SPEAKER: <i>U. Ricardi (Italy)</i> | SP-0572 |
| ■ TEACHING LECTURE
CURRENT PRACTICE AND MOVING POINTS: SARCOMA
08:30 - 09:10 • Room 113-114
CHAIR: <i>F. Calvo (Spain)</i>
08:30 > Current practice and moving points: sarcoma
SPEAKER: <i>M. Krengli (Italy)</i> | SP-0573 |
| ■ TEACHING LECTURE
NEW CLINICAL FRACTIONATION MODELS IN HEAD AND NECK RADIATION THERAPY
08:30 - 09:10 • Room 115
CHAIR: <i>V. Budach (Germany)</i>
08:30 > New clinical fractionation models in head and neck radiation therapy
SPEAKER: <i>P. Maingon (France)</i> | SP-0574 |
| ■ TEACHING LECTURE
BIOLOGICAL OPTIMISATION IN THE CLINIC
08:30 - 09:10 • Room 117
CHAIR: <i>B. Sanchez-Nieto (Chile)</i>
08:30 > Biological optimisation in the clinic
SPEAKER: <i>A.E. Nahum (United Kingdom)</i> | SP-0575 |

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		ABS. NUMBER
■ TEACHING LECTURE		
MODELS FOR SECONDARY CANCER INDUCTION AT RADIOTHERAPY DOSE. AN UPDATE		
08:30 - 09:10 • Room 116		
CHAIR: <i>J. Cosset (France)</i>		
08:30	> Models for secondary cancer induction at radiotherapy dose. An update	
	SPEAKER: <i>U. Schneider (Switzerland)</i>	SP-0576
■ TEACHING LECTURE		
WHAT IS A STEM CELL AND WHY SHOULD I CARE?		
08:30 - 09:10 • Room 120-121		
CHAIR: <i>TBC</i>		
08:30	> What is a stem cell and why should I care	
	SPEAKER: <i>M. Vooijs (The Netherlands)</i>	SP-0577
■ TEACHING LECTURE		
RTT RESPONSIBILITIES AND INVOLVEMENT IN RESEARCH		
08:30 - 09:10 • Room 118-119		
CHAIR: <i>A. Vaandering (Belgium)</i>		
08:30	> RTT responsibilities and involvement in research	
	Speaker <i>TBC</i>	SP-0578
■ SYMPOSIUM		
CURRENT PRACTICE AND CONTROVERSIES: BRAIN TUMOURS		
09:15 - 10:30 • Room 112		
CHAIR: <i>C. Belka (Germany)</i>		
Co-CHAIR: <i>F. Grillo Ruggieri (Italy)</i>		
09:15	> Combination of targeted drugs with radiotherapy in glioblastoma = from mechanisms to therapy	
	SPEAKER: <i>E. Moyal-Cohen-Jonathan (France)</i>	SP-0579

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		ABS. NUMBER
09:40	> Low grade gliomas / treatment sequence (current practice and future trends)	
	SPEAKER: <i>R. Kortmann (Germany)</i>	SP-0580
10:05	> Treating brain metastases: current approaches and controversies	
	SPEAKER: <i>G. Minniti (Italy)</i>	SP-0581
■ SYMPOSIUM		
PREDICTION OF COMPLETE RESPONSE CAN ENHANCE ORGAN PRESERVATION IN RECTAL CANCER		
LEARNING OBJECTIVES:		
1. The audience will be able to incorporate clinical and imaging parameters in their decision to offer rectal cancer patients the possibility of organ saving procedures		
09:15 - 10:30 • Room 113-114		
CHAIR: <i>C. Marijnen (The Netherlands)</i>		
Co-CHAIR: <i>L. Cerezo (Spain)</i>		
09:15	> PCR: a subgroup of patients with better survival or a unsafe surrogate endpoint	
	SPEAKER: <i>V. Valentini (Italy)</i>	SP-0582
09:33	> Diffusion MR prediction: standard or research	
	SPEAKER: <i>R. Beets-Tan (The Netherlands)</i>	SP-0583
09:51	> PET-CT prediction of response of rectal cancer to neo-adjuvant therapy: standard or research?	
	SPEAKER: <i>C. Deroose (Belgium)</i>	SP-0584
10:09	> Modelling response prediction on clinical and imaging evidences	
	SPEAKER: <i>G. Lammering (The Netherlands)</i>	SP-0585

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		ABS. NUMBER
■ SYMPOSIUM		
HOW DEEP DOES HPV CHANGE H&N TREATMENT STRATEGY?		
LEARNING OBJECTIVES:		
1. To describe and discuss the epidemiology and clinical features of HPV induced head and neck cancer		
2. To describe the biology, detection methods and targeting of HPV		
3. To discuss the role of HPV status for prognosis and choice of treatment		
09:15 - 10:30 • Room 115		
CHAIR: <i>C. Grau (Denmark)</i>		
Co-CHAIR: <i>S. Rivera (France)</i>		
09:15	> Epidemiology and clinical features SPEAKER: <i>P. Lassen (Denmark)</i>	SP-0586
09:40	> Biology and targeting of HPV SPEAKER: <i>L. Licitra (Italy)</i>	SP-0587
10:05	> HPV positive vs. HPV negative oropharyngeal carcinoma: deescalating vs. intensified treatment SPEAKER: <i>B. O'Sullivan (Canada)</i>	SP-0588
■ SYMPOSIUM		
ADVANCES IN DOSE CALCULATION AND OPTIMISATION ALGORITHMS. IMPROVING PLANNING EFFICACY AND PLAN QUALITY		
09:15 - 10:30 • Room 117		
CHAIR: <i>T. Knöös (Sweden)</i>		
Co-CHAIR: <i>M. Duch (Spain)</i>		
09:15	> MCO for IMRT planning SPEAKER: <i>D. Craft (USA)</i>	SP-0589
09:33	> Multi-criteria optimization in radiation oncology: from prioritisation to interaction SPEAKER: <i>A. Schlaefter (Germany)</i>	SP-0590
09:51	> Introduction to grid-based solvers of Boltzmann transport equation SPEAKER: <i>O. Vassiliev (Canada)</i>	SP-0591

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		ABS. NUMBER
10:09	> Fast and accurate solution of the Boltzmann radiation transport equation for RT: implementation and validation SPEAKER: <i>K. Bush (USA)</i>	SP-0592
■ SYMPOSIUM		
NANOPARTICLES IN RT		
LEARNING OBJECTIVES:		
1. Description and overview of nanotechnology and potential applications		
2. Understanding the clinical perspective on radiosensitisers		
3. Explanation of nanoparticle mediated radiation dose enhancement		
4. Identification of future potential areas of research and clinical trials		
09:15 - 10:30 • Room 116		
CHAIR: <i>B. McClean (Ireland Republic of)</i>		
Co-CHAIR: <i>J. Vilar Palop (Spain)</i>		
09:15	> Green nanotechnology generates gold nanoparticles (AuNP-EGCG): implications in prostate tumor therapy SPEAKER: <i>K. Katti (USA)</i>	SP-0593
09:33	> Physical perspective on radiation response modulation of tumors using gold nanoparticles SPEAKER: <i>S.H. Cho (USA)</i>	SP-0594
09:51	> Gold nanoparticles as radiosensitisers SPEAKER: <i>S. Jain (Canada)</i>	SP-0595
10:09	> Toronto experience in gold nanoparticles radiosensitization SPEAKER: <i>J. Pignol (Canada)</i>	SP-0596

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■ DEBATE

HOW IMPORTANT ARE TUMOUR AND NORMAL TISSUE STEM CELLS IN RT

LEARNING OBJECTIVES:

1. Concept of stem cells in normal tissues and solid tumours
2. Potential implications for radiation oncology
3. Current challenges and future research directions

09:15 - 10:30 • Room 120-121CHAIR: *D. Zips (Germany)*Co-CHAIR: *R. Coppes (The Netherlands)*

- > SPEAKER: *A. Klopp (USA)* SP-0597
- > SPEAKER: *R.P. Hill (Canada)* SP-0598
- > SPEAKER: *C. Limoli (USA)* SP-0599
- > SPEAKER: *M. Martin (France)* SP-0600

■ SYMPOSIUM

RTT RESPONSIBILITIES AND INVOLVEMENT IN RESEARCH

LEARNING OBJECTIVES:

1. Based on clinical examples, focus will be on RTTs participation in development and research activities, both as an independent profession and as part of a team
2. The future role for RTTs will be discussed. The importance of specialized RTT's and how the role can be developed.
3. To become acquainted with research processes and how research projects can be developed and implemented

09:15 - 10:30 • Room 118-119CHAIR: *A. Boejen (Denmark)*Co-CHAIR: *TBC*

- 09:15 > The role of the imaging specialist RTT
SPEAKER: *G. Fagan (Ireland Republic of)* SP-0601
- 09:40 > Strategies for expanding RTT research activity
SPEAKER: *J. Cox (Australia)* SP-0602
- 10:05 > How to plan and implement a clinical research RTT project in the department
SPEAKER: *C Meade (Ireland Republic of)* SP-0603

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Sunday 13 May 2012

ABS. NUMBER

■ DEBATE

THIS HOUSE BELIEVES THAT THERE IS STILL A ROLE FOR RT IN INTERMEDIATE RISK: ENDOMETRIAL CANCER

LEARNING OBJECTIVES:

1. To assess the potential therapeutic benefit of RT (EBRT/BT) in regard to loco-regional control and survival
2. To understand both the risk of RT (EBRT/BT) treatment in regard to RT related morbidity and QoL as well as the risk of non-RT treatment in regard to cancer outcome, loco-regional control and survival
3. To understand cost-efficiency issues of both scenarios: treatment and non-treatment

11:00 - 12:00 • Room 112CHAIR: *R. Pötter (Austria)*Co-CHAIR: *TBC*

- 11:00 > This house believes that there is still a role for RT in intermediate risk endometrial cancer - for the motion
SPEAKER: *C. Creutzberg (The Netherlands)* SP-0604
- 11:20 > Against the motion
SPEAKER: *H. Kitchener (United Kingdom)* SP-0605
- 11:40 > Adjuvant radiation treatment in high-intermediate risk endometrial cancer patients: for the motion
SPEAKER: *C. Haie-Meder (France)* SP-0606
- 12:50 > Conclusions against the motion
SPEAKER: *G. Scambia (Italy)* SP-0607

■ SYMPOSIUM

H&N NEW TRIALS DESIGN: RADIOTHERAPY TECHNIQUES REQUIREMENTS

LEARNING OBJECTIVES:

1. To select patients who need IMRT
2. To select patients who may benefit from Adaptive Radiotherapy
3. To assess the role of IMRT in patients with Nasopharynx Cancer

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		ABS. NUMBER
11:00 - 12:00 • Room 113-114		
CHAIR: <i>R. Corvò (Italy)</i>		
Co-CHAIR: <i>J.A. Medina (Spain)</i>		
11:00	> IMRT for which patients and for what benefit? SPEAKER: <i>C. Nutting (United Kingdom)</i>	SP-0608
11:20	> Intensity modulated radiation therapy (IMRT) for head & neck tumors: toward tailored and adaptive treatments SPEAKER: <i>V. Grégoire (Belgium)</i>	SP-0609
11:40	> IMRT for NPC SPEAKER: <i>D.L.W. Kwong (Hong Kong (SAR) China)</i>	SP-0610

■ SYMPOSIUM PREDICTIVE BIOMARKERS IN RT

LEARNING OBJECTIVES:

1. The complexities and challenges of using biomarkers as surrogate markers for measuring tumor response
2. An update on the potential range of biomarkers that will be used in radiation oncology clinical trials
3. Future cancer biomarker development and the integration of biomarkers in future clinical trials using radiotherapy and targeted drugs

11:00 - 12:00 • Room 115

CHAIR: *D. Hollywood (Ireland Republic of)*Co-CHAIR: *M. Mangoni (Italy)*

11:00	> Pre-clinical predictive essays and platforms SPEAKER: <i>E. Deutsch (France)</i>	SP-0611
11:20	> Do our mothers' genes influence radiation response? SPEAKER: <i>P. Lambin (The Netherlands)</i>	SP-0612
11:40	> Use in clinical trials SPEAKER: <i>J. Overgaard (Denmark)</i>	SP-0613

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Sunday 13 May 2012

		ABS. NUMBER
■ SYMPOSIUM EU PROJECTS 2		
11:00 - 11:30 • Room 117		
CHAIR: <i>D.R. Olsen (Norway)</i>		
Co-CHAIR: <i>A. Ottolenghi (Italy)</i>		
11:00	> The role of radiation protection in radiation therapy - concepts and legislation, SPEAKER: <i>T. Knöös (Sweden)</i>	SP-0614
11:10	> The status of radiation protection training in Europe - the MEDRAPET survey SPEAKER: <i>D.R. Olsen (Norway)</i>	SP-0615
11:30	> ULICE - Union of Light Ion Centres in Europe SPEAKER: <i>R. Orecchia (Italy)</i>	SP-0616

■ SYMPOSIUM MC PLATFORMS, GETTING MC EASY FOR ROUTINE USE IN MP

LEARNING OBJECTIVES:

1. To understand the need for efficient, user friendly and accurate Monte Carlo based treatment planning systems for the megavoltage photon beams used in radiation therapy
2. To learn about new Monte Carlo codes with improved efficiency and accuracy for calculations related to new treatment modalities and units
3. To realize that using advanced graphical interfaces, Monte Carlo calculations do not require specialized knowledge and can be performed easily

11:00 - 12:00 • Room 116

CHAIR: *P. Andreo (Sweden)*Co-CHAIR: *A. Sanchez-Reyes (Spain)*

11:00	> SMCP - an efficient Monte Carlo treatment planning system SPEAKER: <i>P. Manser (Switzerland)</i>	SP-0617
11:20	> EGSnrc for the investigation of ionization chambers in radiotherapy dosimetry SPEAKER: <i>J. Wulff (Germany)</i>	SP-0618

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		ABS. NUMBER
11:40	> PRIMO: a graphical environment for the automatic simulation of Varian and Elekta linacs with PENELOPE SPEAKER: <i>L. Brualla (Germany)</i>	SP-0619

■ SYMPOSIUM

COMPARISON STUDIES: ONGOING RESEARCH

LEARNING OBJECTIVES:

1. To outline the importance of comparison studies
2. To outline the survival and toxicity from published studies
3. To understand to define the margin for rectal cancer from GTV to PTV

11:00 - 12:00 • Room 118-119

CHAIR: *A. Osztavics (Austria)*

Co-CHAIR: *TBC*

11:00	> ICORG 09-06 An ongoing prospective randomised trial comparing 3D RT with IMRT for the treatment of endometrial cancer SPEAKER: <i>L. O'Sullivan (Ireland Republic of)</i>	SP-0620
11:20	> 3-years follow-up of a moderate hypofractionation scheme with endorectal balloon for EBRT of the prostate SPEAKER: <i>G. McColl (The Netherlands)</i>	SP-0621
11:40	> Shape variation of the clinical target volume in rectal cancer: comparison between short-course and long-course RT SPEAKER: <i>J. Nijkamp (The Netherlands)</i>	SP-0622

■ DEBATE

THE HOUSE BELIEVES THAT BIOLOGICAL OPTIMISATION SUPERSEDES PHYSICAL OPTIMISATION

LEARNING OBJECTIVES:

1. To understand the current parameters for treatment plan optimization, their advantages and their shortcomings
2. To realize that different opinions exist on the validity of the current biological models for treatment plan optimization

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		ABS. NUMBER
3.	To understand the general value which lies in the concept of biological treatment plan optimization and, based on this, the value of scientific research in this field as well as the clinical need to closely and critically follow the evidence	

12:00 - 12:45 • Room 112

CHAIR: *M. Baumann (Germany)*

12:00	> For the motion SPEAKER: <i>J. Deasy (USA)</i>	SP-0623
12:20	> Against the motion - biological optimization is still immature SPEAKER: <i>D.R. Olsen (Norway)</i>	SP-0624



POSTERS

Posters

	ABS. NUMBER
■ CLINICAL TRACK: BREAST	
> External beam partial breast irradiation: difference in pre- and postoperative target volume delineation <i>F. van der Leij (The Netherlands), P.H.M. Elkhuisen, T.M. Janssen, P. Poortmans, M. van der Sangen, A.N. Scholten, C. van Vliet-Vroegindeweij, L.J. Boersma</i>	PO-0625
> Prediction of relapse and contralateral tumor using breast cancer clinical variables and histochemical subtypes <i>R. Pacelli (Italy), M. Conson, L. Cella, R. Liuzzi, R. Solla, V. Iorio, A. Farella, M. Salvatore</i>	PO-0626
> Results with accelerated hypofractionation breast irradiation in terms of molecular classification <i>M. Cabezón Pons (Spain), N. Rodríguez Ibarria, L. García, M. Lloret, B. Pinar, L.A. Henríquez-Hernández, A. Valenciano, P.C. Lara</i>	PO-0627
> Toxicity predictors for hypofractionated FIMRT in breast cancer <i>A. Fodor (Italy), P. Mangili, C.I. Fodor, G. Rinaldin, E. Villa, M. Pasetti, C. Fiorino, I. Dell'Oca, A. Bolognesi, N.G. Di Muzio</i>	PO-0628
> IMRT and regional nodal irradiation in left sided breast cancer patients can spare more normal tissues <i>K. Thabet, M. Abd El- Moez, M. EL-Haddad, M. Sayed, N. El-Sherbiny, A. El-Kashef, S. El-Mesidy (Egypt)</i>	PO-0629
> PBI with interstitial high dose rate brachytherapy: results of a phase II prospective study <i>I. Palumbo (Italy), A. Farneti, G. Capezzali, L. Falcinelli, M. Margaritelli, V. Lancellotta, C. Zucchetti, M. Marcantonini, C. Raymondi, C. Aristei</i>	PO-0630

Posters

	ABS. NUMBER
> Inter-fraction motion during 3D-conformal external beam accelerated partial breast irradiation <i>A. Levy (France), J. Autixier, I. Dumas, A. Boros, C. El-Khoury, V. Fallet, C. Rossier, A. Britten, S. Heymann, C. Bourgier</i>	PO-0631
> Toxicity and cosmetic outcome of three-dimensional conformal radiotherapy for partial breast irradiation <i>M. Gatti (Italy), S. Bresciani, R. Ponzone, R. Panaia, A. Salatino, M. Stasi, P. Gabriele</i>	PO-0632
> Early toxicity of intraoperative electron radiotherapy as tumor bed boost during breast conserving surgery <i>A. Wittig (Germany), C. Hornickel, U.S. Albert, L. Zwioerek, K. Zink, R. Engenhardt-Cabillic</i>	PO-0633
> Predictive factors for lung injury after intensity-modulated radiotherapy in whole breast irradiation <i>H. Kim (Korea Republic of), H.S. Bae, M.Y. Lee, K.H. Cheong, K.J. Kim, T.J. Han, S.K. Kang, S. Park, T. Hwang</i>	PO-0634
> Discordance in ER/PR and HER2 testing between biopsy and surgical specimens in breast cancer <i>G.K. Azad (United Kingdom), J.M. Singer, S. Jader</i>	PO-0635
> Whole breast irradiation using the RPM system - the benefit of a new technique <i>M. Ben-David (Israel), H. Granot, M. Ben-Ayun, D. Elezra, R.M. Pfeffer, Z. Symon, V. Pyatigorskaya</i>	PO-0636
> How feasible is nodal irradiation with tangential fields in breast cancer? A comparative technique study <i>J. Sanz (Spain), E. Fernández-Velilla, N. Rodríguez, M. Prieto, N. Anton, P. Foro, J. Flores, O. Pera, A. Reig, M. Algara</i>	PO-0637

Posters

	ABS. NUMBER
■ CLINICAL TRACK: CNS AND HAEMATOLOGY	
> Role of 11C-MET PET for radiotherapy planning of primary brain tumors <i>E. Lopci (Italy), E. Clerici, M. Catalano, M. Rodari, P. Navarra, A. Chiti, M. Scorsetti</i>	PO-0638
> Excellent clinical outcome for pituitary adenomas treated with stereotactic radiotherapy using a narrow margin <i>R. Tsang (Canada), H. Pebdani, N. Patil, I. Edem, A. Albert-Green, M. van Prooijen, M. Heydarian, S. Ladak, G. Zadeh</i>	PO-0639
> Pediatric medulloblastoma: toxicity and outcome of patients treated with helical tomotherapy <i>I. Marrone (Spain), J.L. Lopez Guerra, R. Matute, M. Bruna, C. Sole, C. Minguez, A. Sanchez-Reyes, F. Puebla, C. Beltran, H. Marsiglia</i>	PO-0640
> Mediastinal B-cell lymphoma in PET-Rituximab era: prognostic impact of initial response and radiation therapy <i>A.R. Filippi (Italy), C. Piva, C. De-Colle, A. Chiappella, D. Caracciolo, G. Parvis, R. Ragona, M. Boccadoro, U. Vitolo, U. Ricardi</i>	PO-0641
> Treatment outcomes and patterns of failure in early stage unfavourable Hodgkin's lymphoma <i>D. Kumar (India), S. Laskar, M.A. Muckaden, R. Nair, H. Menon, M. Sengar, B. Arora, S. Gujral, T. Shet, S. Banavali</i>	PO-0642
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- > Development of an advanced practitioner image guidance training programme for RTTs
A. Baker (United Kingdom), A.J. Reilly, K. Burgess, D. Prescott, C.R. Baker PO-0944
- > Using a satellite clinic as a pilot site for developing and implementing advanced radiotherapy techniques
M. Axelsen (Denmark), N. Rubaek, B.V. Offersen, M.S. Thomsen PO-0945
- > Assessing the degree of cultural competency of oncology professionals in a regional cancer centre
S. Boyko (Canada), S. Sze PO-0946
- > Differences in RTT and physician delineation of breast cancer and how it affects the treatment plan
M.R. Pedersen (Denmark), S. Vallentin, C. Larsen, Z. Pohl, G. Vinten, D. Elezaj, M. Ryberg, H. Danø, C.F. Behrens, D. Sjöström PO-0947

■ RTT TRACK: OTHERS

- > Use of HPV screening in HNSCC by radiation oncologists and its impact on treatment
H. Fetherstone (Ireland Republic of), A. Craig PO-0948
- > Audit of Ruthenium-106 brachytherapy for posterior uveal melanoma in the Scottish ophthalmic oncology service
D. Ritchie (United Kingdom), M. Gregory, T. Betts, S. Drummond, W. Kincaid, F. Roberts, E. Kemp, P. Cauchi PO-0949

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- > Can an elevation of C-Telopeptides in cancer patients predict bone dissemination?
C. López Carrizosa (Spain), J. Zapatero Ortuño, P. Samper Ots, V. Jerviz Guía, M.L. Cuoselo Paniagua, M. Dominguez Morilla, J. Saez Garrido, M. Martin de Miguel PO-0950

■ RTT TRACK: PATIENT CARE

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M. Dixon (Ireland Republic of), T. O' Dwyer, A. Craig PO-0951
- > Baseline whole mouth stimulated salivary flow: do parotid size or previous treatment matter?
R.L. Simmons (United Kingdom), A. Hartley PO-0952
- > Multi-modality cancer care- what is planned & what is delivered
A. Sharma (India), R. Madan, B. Bharat, M. Behera, B.K. Mohanti, G.K. Rath PO-0953
- > Acute morbidity in patients with early breast cancer in adjuvant radiotherapy in the DBCG HYPO and DBCG PBI protocols
B. Haislund (Denmark), T. Bang, M. Bjørklund Ellegaard, B. Offersen PO-0954
- > Ultrasound histogram assessment of parotid-gland injury following head-and-neck cancer radiotherapy
X. Yang, S. Tridandapani, J. Beitler, D. Yu, E. Yoshida, W. Curran, T. Liu (USA) PO-0955

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- > Support positioning and organ registration during breast cancer irradiation: the SuPPORT 4 All study
H. Probst, A. Taylor (United Kingdom), C. Bragg, D. Dodwell, S. Haake, J. Hart, D. Green, P. Shuttleworth PO-0956
 - > Effect of a dietary protocol on rectal size during radical radiotherapy for prostate cancer
S. Buckley, M. Phan, J. Snelling, N. O'Rourke, P. Seaby, E. Hawkes, R. Harrison, D. Pudney (United Kingdom) PO-0957
 - > Rotational positioning accuracy of supine and bellyboard positioned patients
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- **RTT TRACK: TREATMENT PLANNING AND DOSE CALCULATION**
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P. Kong (Hong Kong (SAR) China), G. Chiu, A. Mak PO-0959
 - > Comparison of a 2D ipsilateral lung constraint at Virtual Simulation (VSim) and DVH for whole breast radiotherapy
G. Bee (United Kingdom), A.F. Pitt, V. Ganesan, S.P. Perry, M.A. Varughese PO-0960
 - > Isotoxic radiotherapy for non-small cell lung cancer: is IMRT the answer?
M. Warren (United Kingdom), G. Webster, C. Rowbottom, C. Faivre-Finn PO-0961

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- > A simple procedure for the virtual detection of collisions between the patient and an electron applicator
A. Varo Curbelo (Spain), J. Saez, S. Madirolas Garcia, C. Delgado Soler, M. Hermida Lopez, M. Beltran PO-0962
 - > Dosimetric report improvement using Adac Pinnacle3 scripting language
C. Alaman Sánchez (Spain), J. Pérez-Alija Fernandez, C. Jover Pérez, R. Del Real Nuñez, J. Osorio Ceballos, J. Almansa Lopez PO-0963
 - > Dosimetric analysis of the brachial plexus in patients treated with irradiation after surgery for breast cancer
R. Cosar (Turkey), A. Ozen, M. Dogan, D. Celik, S. Parlar, S. Tuncel, C. Uzal PO-0964
- **RTT TRACK: VOLUME DEFINITION, TREATMENT MARGINS AND GEOMETRIC UNCERTAINTIES**
- > Quality assurance of target volume definition in the ARISTOTLE phase III rectal cancer trial - initial assessment
N. Cole (United Kingdom), S. Gwynne, E. Spezi, R. Maggs, D. Sebag-Montefiore, R. Adams PO-0965
 - > Inter- and intra-fraction geometric errors in daily image guided radiotherapy of breast cancer patients
U. Harrow (Denmark), M.S. Thomsen, W. Fledelius, P.R. Poulsen PO-0966
 - > Evaluation of inguinal region set-up accuracy using cone-beam CT in anal cancer patients treated with IMRT
M. Johnston (Canada), P. Lindsay, T. Craig, R. Dinniwell, J. Kim PO-0967
 - > Interfraction reproducibility of prone breast radiotherapy: an update
G. Lee (Switzerland), V. Vinh-Hung, F. Grozema, Y. Lee, I. Frangin, M. Laouiti PO-0968

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> 4D-PET/CT for target volume delineation in stereotactic ablative radiotherapy (SABR) for malignant lung lesions <i>V. Duncker-Rohr (Germany), L. Kuder, F. Momm, E.G.C. Troost, C. Doll, V. Prokic, W. Weber, A.L. Grosu, M. Mix, U. Nestle</i>	PO-0969
> Intrafraction motion of the prostate during treatment delivery <i>L. Dallas (United Kingdom), R. Muirhead, A. Alhasso, A. Duffton</i>	PO-0970
> Reducing CTV to PTV planning margins using IG-IMRT in head and neck cancer patients <i>M. Lei (United Kingdom), T. Greener, S. Bothwell, M. Adams, T. Guerrero-Urbano</i>	PO-0971

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> Regional failure in breast cancer patients with conservative surgery plus local or loco-regional radiotherapy <i>F. Ropero Carmona (Spain), J. Muñoz García, J. Quirós Rivero, O. Zoleto Camacho, Y. Rios Kavadoy, E. Capelo Medina, A. Corbacho Campos, J.J. Cabrera Rodriguez</i>	EP-0972
> Reducing heart irradiation in patients undergoing conformal postoperative radiotherapy for left breast cancer <i>R. Lazarov (Bulgaria), I. Mihaylova, D. Ivanova, S. Lazarova, Z. Spasova, E. Piperkova, A. Tzonevska, K. Tzvetkov</i>	EP-0973
> Evaluation of acute skin toxicity in patients with breast cancer and radical mastectomy <i>G. Koukourakis (Greece), A. Miliadou, P. Georgolopoulou, Z. Vlachodimitropoulou, A. Kavkoula, P. Karagiani, A. Sotiropoulou-Lontou</i>	EP-0974
> Evaluation of p21 gene mutation in patients with triple negative and ER(-), PR(-), HER-2(+) breast cancer <i>A. Özen (Turkey), S. Cakina, T. Sipahi, R. Cosar, T. Gulyasar, S. Sener, F. Cukurcayir, M.C. Uzal</i>	EP-0975

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> Results in the conservative treatment of breast carcinoma in situ <i>T. Murillo (Spain), C. Lechuga, V. Valentin, R. Martinez, N. Gascon, S. Gomez, K. Aylas, E. Cabello, R. Diez</i>	EP-0976
> Preliminary evaluation of breast cancer patients, treatment after BCT, IORT and EBRT <i>B. Urbanski (Poland), K. Bratos, H. Wlodarczyk, A. Karczewska-Dzionk, P. Murawa, D. Murawa, A. Roszak</i>	EP-0977
> Analysis of secondary angiosarcomas after breast cancer treatment at St.Elizabeth cancer institute, Slovakia <i>M. Zemanova (Slovakia), K. Machalekova, M. Sandorova, E. Boljesikova, M. Pobijakova, J. Svec, M. Mikulova, K. Rauova, G. Kralik</i>	EP-0978
> Classification and determination of breast cancer tissue electromagnetic properties <i>I. Marinova (Bulgaria), V. Mateev, A. Chakarova</i>	EP-0979
> Adjuvant breast radiation delivered with static angles tomotherapy (Tomodirect): a prospective evaluation <i>P. Franco (Italy), K. Schombourg, F. Migliaccio, P. Catuzzo, S. Presilla, G. Ballerini, M.R. La Porta, S. Tofani, U. Ricardi, A. Franzetti-Pellanda</i>	EP-0980
> Simultaneous integrated boost breast cancer - a suitable option? <i>K. Piefel (Germany), T. Schneider, S. Söger, S. Gleßmer, O. Bislich, M.H. Seegenschmiedt, F. Fehlauer</i>	EP-0981
> Does loco-regional irradiation improve outcome in denovo metastatic breast cancer patients? <i>T. Nageeti (Saudi Arabia), R. Jastania</i>	EP-0982
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| > Do brassiere cups improve breast cancer dosimetry? A comparative study for patients with large/pendulous breasts
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| > Cobalt based IMRT in breast cancer: a dosimetric study
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| > Comparison of two radiation boost techniques in patients undergoing neoadjuvant treatment for breast cancer
<i>L. Nardone (Italy), M.C. De Santis, B. Diletto, G.R. D'Agostino, G. Mattiucci, R. Cannà, D. Terribile, G. Franceschini, A. Mulè, V. Valentini</i> | EP-0988 |
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| > Adjuvant breast radiotherapy using simultaneous integrated boost - clinical and dosimetric perspectives
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| > Myocardial perfusion defects following radiotherapy for breast cancer detected by 99mTc-MIBI-SPECT/CT
<i>N. Landenberger (Germany), U. Nestle, G. Gornik, C. Rischke, V. Prokic, M. Mix, W. Weber, A. Grosu</i> | EP-0991 |

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| > Coverage of axillary lymph nodes in prone versus supine 3D technique for whole breast radiotherapy
<i>V. Reyes Lopez (Spain), J. Saez, L. Arbelaez, M. Molla, M. Altabas, S. Madirolas, M. Sancho, J. Giralt</i> | EP-0992 |
| > Breast cancer subtypes based on ER/PR and HER2 expression in Pakistani women
<i>M. Bukhari (Pakistan), U. Masood, T. Mehmood, A. Masood, I. Haider, A. Khan, H. Majeed, N. Siddiqui</i> | EP-0993 |
| > Impact of delay in starting radiotherapy in local failure in conservative breast cancer without chemotherapy
<i>J. Munoz Garcia (Spain), J. Quiros Rivero, O. Zoleto Camacho, Y. Rios Kavadoy, F. Ropero Carmona, E. Capelo Medina, A. Corbacho Campos, J. Cabrera Rodriguez</i> | EP-0994 |
| > Dosimetric comparison of electron and X-ray for the treatment of tumor bed boost in breast conserving surgery
<i>S. Park (Korea Republic of), J. Kim, J. Lee, I. Park</i> | EP-0995 |
| > Non-surgical breast-conservation treatment using a new radiosensitization method for stage I or II breast cancer
<i>Y. Ogawa (Japan), K. Kubota, N. Aoyama, K. Ohgi, Y. Kataoka, M. Tadokoro, T. Tamura, S. Kariya, M. Nogami, A. Nishioka</i> | EP-0996 |
| > Adjuvant hypofractionated radiotherapy after conserving surgery for early breast cancer in elderly women
<i>A. Di Russo (Italy), S. Tomatis, V. Cosentino, F. Soncini, A.M. Cerrotta, S. Morlino, C. Chiruzzi, D. Posté, P. Pittoni, L. Lozza</i> | EP-0997 |
| > Hypofractionated accelerated radiotherapy of the breast and nodes for conservatively treated breast cancer
<i>L. Garcia (Spain), N. Garcia-Ibarria, A. Cabezón, A. Riveros, M. Lloret, R. Cabrera, P.C. Lara</i> | EP-0998 |

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| > Hypofractionated radiotherapy after conservative surgery for breast cancer
<i>I. Tovar Martin (Spain), R. Del Moral Ávila, M. Zurita Herrera, P. Vargas Arrabal, M. Gentil Jiménez, R. Guerrero Tejada, I. Linares Galiana, M. Martínez Carrillo, J. Expósito Hernández, M. Navarro González</i> | EP-0999 |
| > Pre- and postoperative breast MRI in supine radiotherapy position
<i>M.D. den Hartogh (The Netherlands), M.E.P. Philippens, N. Blanken, M.A.A.J. van den Bosch, M. van Vulpen, B. van Asselen, H.J.G.D. van den Bongard</i> | EP-1000 |
| > Biological subtype, but not age, adversely affects distant metastasis after breast-conserving therapy
<i>K. Shiraishi (Japan), K. Nakagawa, J. Kawamori, K. Ibukuro, A. Fukuuchi, T. Nishi</i> | EP-1001 |
| > Intra operative radiotherapy (IORT) in relapsed breast cancer: a possibility for a new conservative therapy?
<i>A. Fozza, G. Timon, L. Belgioia, S. Agostinelli, S. Garelli, D. Friedman, G. Vidano, F. Vallergera, R. Corvò, M. Guenzi (Italy)</i> | EP-1002 |
| > Outcomes of patients with metachronous versus synchronous bilateral breast carcinoma
<i>S. Bieri (Switzerland), W. Jeanneret-Sozzi, S. Thalmann, K. Beer, F. Zimmermann, A.S. Allal</i> | EP-1003 |
| > Phase I-II study of hypofractionated simultaneous integrated boost (SIB) in breast cancer patients
<i>S. Pentimalli (Italy), F. Alongi, P. Navarria, F. Lobefalo, A.M. Ascolese, P. Mancosu, A. Fogliata, L. Cozzi, S. Arcangeli, M. Scorsetti</i> | EP-1004 |
| > Hypofractionation in breast cancer. Evaluation of acute toxicity and cosmetic outcome in 256 patients (pts)
<i>A.M. Mena (Spain), J. Pardo, A. Noé, A. Alvarado, J.C. Vara, I. Prieto, J. Olivera, J. Luna, A.M. Pérez</i> | EP-1005 |

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| > Triple negative versus non triple negative breast cancer in pakistani women
<i>T. Mehmood (Pakistan), M. Bukhari, U. Masood, I. Haider, A. Khan, H. Majeed, M. Shah, N. Siddiqui</i> | EP-1006 |
| > Radiotherapy after breast conserving surgery in an unselected cohort of 2394 patients
<i>S. Corradini (Germany), M. Niyazi, O.M. Niemoeller, C. Belka, H. Scheithauer</i> | EP-1007 |
| > Radiation recall dermatitis (RRD) in breast cancer patients (pts) treated with conservative intent
<i>J. Pardo (Spain), A. Alvarado, M.L. Hernández, N. Feltes, R. Soto, A. Mena, I. Prieto, J. Olivera, J. Luna, A.M. Pérez</i> | EP-1008 |
| > Intensive local radiation therapy for bone-only metastasis in breast cancer: a multiinstitutional study in Japan
<i>R. Kobayashi (Japan), K. Shiraishi, Y. Niibe, K. Hayakawa, M. Takemoto, Y. Kaneyasu, S. Kanazawa, Y. Nagata, K. Nakagawa</i> | EP-1009 |
| > Results of a national breast cancer program in Chile: 318 women treated under standardized clinical guidelines
<i>V. Ovalle (Chile), M. Russo, C. Solé, C. Del Castillo, M. Campos, M. Baeza</i> | EP-1010 |
| > Outcome of triple negative (TN) breast carcinoma after breast conservation with radiotherapy
<i>U. Masood (Pakistan), M. Bukhari, A. Masood, I. Haider, M. Shah, A. Rasheed, T. Mehmood, M. Ali, Nabia I.(1)</i> | EP-1011 |
| > Free breathing gating is superior to prone position for whole breast radiotherapy
<i>C. Sweldens, E. Van Limbergen, C. Weltens (Belgium)</i> | EP-1012 |
| > Virtual computer simulation of skin erythema severity categorized by breast size using generalized LQ model
<i>H. Sekine (Japan), C. Kanehira, M. Aoki, M. Kobayashi, S. Takagi, K. Suzuki</i> | EP-1013 |

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> Radiotherapy and adjuvant trastuzumab for HER-2 breast cancer: clinical outcome and cardiotoxicity <i>L. Vinante (Italy), L. Evangelista, O. Lora, F. Berti, A. Banzato, L. Baboci, D. Fiore, G. Sotti</i>	EP-1015
> Heart and cardiac chambers dose following 4-field radiation therapy of breast cancer - a retrospective study <i>S. Johansen (Norway)</i>	EP-1016
> Hypofractionation with simultaneous integrated boost for stage I-II breast cancer, randomized clinical trial <i>H. Van Parijs (Belgium), G. Miedema, V. Vinh-Hung, S. Verbanck, N. Adriaenssens, D. Kerkhove, T. Reynders, G. Storme, D. Verellen, M. De Ridder</i>	EP-1017
> Phase III study comparing accelerated partial breast irradiation vs whole breast radiation therapy using 3D-CRT <i>N. Rodríguez (Spain), X. Sanz, P. Foro, A. Reig, I. Membrive, J. Lozano, E. Fernández-Velilla, J. Quera, O. Pera, M. Algara</i>	EP-1018
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> Splenic radiotherapy implementation for splenomegaly in a patient with chronic myeloid leukemia (CML) <i>H. Bas Ayata (Turkey), M. Guden, N. Kucuk, C. Ceylan, A. Kiliç, K. Engin</i>	EP-1020

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> Single centre report on treatment of anaplastic astrocytomas with radiotherapy plus temozolamide <i>M. Nagliati (Italy), E. Magri, S. Brugnara, E. Colarusso, M. Barbareschi, F. Chioffi, L. Tomio</i>	EP-1021
> Management of primary central nervous system lymphoma (PCNSL). A single UK centre experience <i>M.Z. Saipillai (United Kingdom), F. Azam, M. Anthonypillai, S. Khakoo, F. Latif, H. Wong, B. Haylock</i>	EP-1022
> Treatment outcomes in GBM - validation of results of a randomised phase III clinical trial in a non trial population <i>K. Rock (Ireland Republic of), O. McArdle, P. Forde, M. Dunne, B. O'Neill, C. Faul</i>	EP-1023
> Bevacizumab in combination with CPT-11 for recurrent high glioma. Experience of use in our centre <i>V. Isabel (Spain), D.I.A.Z. Laura, M. Ernesto, G. Esther, D.I.A.Z. Veronica, P. Dolores, G. Lucia, S. Carmen, A. Enrique</i>	EP-1024
> Rescue treatment for high grade gliomas through hypofractionated RT+ Bevacizumab. Experimental study <i>V. González Vidal (Spain), A. Conde Moreno, P. Almendros, R. De Las Peñas Bataller, C. Ferrer Albiach</i>	EP-1025
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> New RPA-classification (adapted version RSCRR) for brain tumors grade 3-4 <i>T.R. Izmailov (Russian Federation), G.A. Panshin, P.V. Datsenko</i>	EP-1027
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> Stereotactic Cyberknife radiosurgery for meningiomas: radiological evaluation of treatment results <i>N. Spizhenko (Ukraine), V. Buryk, T. Chebotaryova, V. Lisak, O. Sharaevskiy</i>	EP-1030
> Retrospective analysis of anaplastic gliomas treatment using PCV chemotherapy with radiotherapy <i>H.R. Ghattamaneni (United Kingdom), A.M. Mileo, C.C. Lim</i>	EP-1031
> Total marrow irradiation-TMI with volumetric modulated Arc therapy- VMAT in hematologic malignancies <i>A. Tozzi (Italy), L. Castagna, P. Navarria, S. Castiglioni, S. Bramanti, A. Santoro, P. Mancosu, A. Fogliata, L. Cozzi, M. Scorsetti</i>	EP-1032
> Comparison of five prognostic indices in patient with brain metastases who treated with radiotherapy <i>Y.H. Park (Korea Republic of), T.H. Kim, J.M. Bae, S.Y. Jung, S.H. Moon, K.H. Shin, J.Y. Kim, D.Y. Kim, K.H. Cho</i>	EP-1033
> Combination of percutaneous radiotherapy and iodine-125 brachytherapy in recurring brain tumours <i>S.B. Schwarz (Germany), M. Niyazi, U. Ganswindt, M. Kunz, A. Siefert, J.C. Tonn, F.W. Kreth, C. Belka</i>	EP-1034
> Hippocampus and distribution of brain metastases: implications for hippocampal-sparing whole brain radiotherapy <i>R. Bermudez I (Spain), X. Maldonado, M. Molla, S. Benavente, V. Reyes, M. Ramos, J. Giralt</i>	EP-1035
> Postoperative treatment of glioblastoma with radiation therapy plus concomitant and adjuvant temozolomide <i>D.N. Sharma (India), P.K. Julka, S. Mallick, A.K. Gandhi, N. Joshi, G.K. Rath</i>	EP-1036

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> Bevacizumab (Avastin®) and temozolomide: an option in the treatment of recurrent gliomas <i>R. Cabrera (Spain), B. Clavo, R. Carmona-Vigo, L.A. Henríquez-Hernández, A. Cabezón, L. García, M. Lloret, P.C. Lara</i>	EP-1038
> Meningioma causing visual impairment: outcomes and toxicity with IMRT <i>J. Maclean (United Kingdom), S. Sivabalasingham, F. Bremner, N. Fersht, S. Short, D. D'Souza</i>	EP-1039
> Reduced-dose radiotherapy by the chemoresponsiveness for the primary central nervous system lymphoma <i>B.H. Kim (Korea Republic of), I.H. Kim, J.W. Choi, D.S. Heo, T.M. Kim, H.W. Jung, C.K. Park</i>	EP-1040
> Outcomes of fractionated stereotactic radiotherapy in patients with residual or recurrent craniopharyngioma <i>T. Mizowaki (Japan), K. Sakanaka, K. Ogura, M. Ogura, Y. Arakawa, M. Hojo, S. Miyamoto, M. Hiraoka</i>	EP-1041
> Comparative analysis of two chemotherapy regimen for operated multiform glioblastoma <i>V. Kim (Kazakhstan), M. Ibraimova, S. Sapagina, A. Almabek, S. Esentayeva, E. Ishkinin, I. Malisheva</i>	EP-1042
> Reirradiation for recurrent malignant brain tumor with X-ray radiotherapy or proton beam therapy <i>T. Koji (Japan), M. Mizumoto, T. Okumura, H. Ishikawa, T. Yamamoto, T. Hashimoto, Y. Oshiro, A. Ohkawa, T. Sakae, H. Sakurai</i>	EP-1043

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| > Total nodal irradiation in hematopoietic stem cell transplantation for severe aplastic anemia
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| > Multiple brain metastases low dose prescription in gamma radiosurgery
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| > Prognostic significance of Ki-67 proliferation index in Glioblastoma patients
<i>E. Tezcanli (Turkey), A. Ucuncu, S. Sarihan, S. Okkan, N. Ozseker, G. Aksu, A. Dirier, F. Akman, B. Zincircioglu, U. Abacioglu</i> | EP-1046 |
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<i>H. Koh (Korea Republic of), C. Kim, J. Han, Y. Kim, N. Jang, J. Kim, I. Kim</i> | EP-1047 |
| > Chemoradiation therapy of non-Hodgkin lymphomas. Results in the groups treated in 1991-2000 and 2001-2010 years
<i>V. Sotnikov (Russian Federation), G. Panshin, P. Dacenco, V. Solodky</i> | EP-1048 |
| > Pseudoprogression in glioblastoma: national survey of UK oncologists and review of the literature
<i>K. Tarver (United Kingdom), E. Staples</i> | EP-1049 |
| > Role of radiotherapy in the treatment of relapsing meningiomas
<i>B. De Bari (Italy), M. Buglione, P. Ghirardelli, F. Trevisan, S.M. Magrini</i> | EP-1050 |
| > Risk factors for brain injury after carbon ion radiotherapy for skull base tumors
<i>M. Koto (Japan), A. Hasegawa, R. Takagi, A. Fujikawa, T. Morikawa, H. Tsujii, T. Kamada</i> | EP-1051 |

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| ■ ELECTRONIC POSTER: CLINICAL TRACK: ELDERLY | |
| > Radical chemoradiotherapy as a treatment of choice for the elderly with locally advanced NSCLC
<i>J.H. Lee (Korea Republic of), H.G. Woo, H.J. Kim, D.W. Kim, S.H. Lee, T.M. Kim, Y.W. Kim, S.C. Yang, D.S. Heo</i> | EP-1052 |
| ■ ELECTRONIC POSTER: CLINICAL TRACK: GASTROINTESTINAL TUMOURS (UPPER AND LOWER GI) | |
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| > Adjuvant chemoradiation in pancreatic cancer: a single institution experience
<i>C. Samaha Jabbour (Lebanon), E. Nasr, D. Nehme Nasr, F. Azoury, J. Helou, P. Aftimos, R. Noun, G. Chahine</i> | EP-1054 |
| > Investigating longcourse chemoradiotherapy regimen for rectal cancer with Bossett, weekly 5fu and Capecitabine
<i>S. Aslam (United Kingdom), M. King, M. Churn</i> | EP-1055 |
| > The importance of an experienced multi-disciplinary team in the treatment of rectal cancer
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| > Body gamma-knife radiosurgery for small hepatocellular carcinoma
<i>G. Li (China), Y. Wang, Y. Zhao, S. Jin, Y. Gao</i> | EP-1057 |
| > Adjuvant chemoradiotherapy for gastric adenocarcinoma operated with complete macroscopic lymphadenectomy=D2
<i>M. Eguiguren (Spain), S. Caffiero, G. Rodriguez, C. Blanco, A. Querejeta, E. Guimon, I. Uranga, J.M. Urraca, J.P. Ciria, J. Minguez</i> | EP-1058 |

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 - > Patient and health professional questionnaires to record treatment toxicity for oesophageal cancer
G. Whitfield (United Kingdom), S. Davidson, J. Routledge EP-1060
 - > Locally advanced esophageal cancer chemoradiation therapy
M. Aylas (Spain), M.A. Pérez Escutia, O. Hernandez, N. Drove, S. Guardado, M.A. Cabeza, M.T. Murillo, R. Diaz, D. Lora, E. Lanzós EP-1061
 - > Adjuvant radio-chemotherapy in resectable locally advanced gastric cancer
J. Quirós Rivero (Spain), J.L. Muñoz Garcia, O. Zoleto Carmona, J. Cabrera Rodriguez, E. Capelo Medina, A. Corbacho Campos, Y. Rios Kavadoy, M.F. Ropero Carmona EP-1062
 - > Preoperative hyperfractionated radiotherapy with oral fluoropyrimidines in locally advanced rectal cancer
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 - > Adjuvant chemoradiation (CRT) for high-risk gastric cancer (GC) employing infusional 5-fluorouracil (5FU)
V. Vassiliou (Cyprus), K. Papademetriou, P. Kountourakis, D. Papamichael, D. Andreopoulos EP-1064
 - > Radiotherapy with volumetric modulated arc therapy for hepatocellular carcinoma patients
W. Hsu (Taiwan), P.M. Wang, N.N. Chung, B.A. Chang, G. Nicolini, A. Clivio, A. Fogliata, L. Cozzi EP-1065
 - > Concomitant radiotherapy and gemcitabine in palliative treatment of pancreatic cancer - what matters?
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- > The influence of radial resection margin status on loco-regional recurrence in esophageal squamous cell carcinoma
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 - > Neoadjuvant radiochemotherapy for metastatic rectal cancer
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 - > Association between life prognosis and pretreatment liver function of proton beam therapy for the patients with HCC
M. Mizumoto (Japan), T. Okumura, T. Hashimoto, H. Ishikawa, Y. Oshiro, A. Ohkawa, A. Kanemoto, H. Hashii, K. Tsuboi, H. Sakurai EP-1069
 - > Does advanced technique allow a dose escalation in neoadjuvant radiotherapy of esophageal carcinoma?
K. Fakhrian (Germany), K. Öchsner, S. Kampfer, H. Hammami, T. Omrcen, V. Bisof, H. Geinitz EP-1070
 - > Evaluation of inter-fraction motion in radiotherapy of gastric cancer using kV radiographs
A. Namysl-Kaletka (Poland), J. Wydmanski, D. Bodusz, A. Tukiendorf, W. Leszczynski EP-1071
 - > Preoperative radiochemotherapy in rectal cancer patients: the impact of age on compliance and outcomes
M.C. Barba (Italy), G. Rizzo, M.A. Gambacorta, C. Coco, G.B. Doglietto, R. Persiani, A. Crucitti, S. Manfrida, G. Mantini, V. Valentini EP-1072
 - > Phase I/II trial of panitumumab, capecitabine and 3D-CRT as preoperative treatment in rectal cancer
A. Varveris (Greece), M. Mazonakis, J. Stratakis, A. Dimopoulos, N. Troglanis, P. Sakarelis, S. Stylianidou, P. Pistevoiu, C. Varveris EP-1073

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| > Helical Tomotherapy in the treatment of anal cancer: the lausanne experience
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| > Primary conformal radiotherapy and chemotherapy for esophageal cancer: preliminary results of a randomized trial
<i>M. Ibraimova (Kazakhstan), V. Kim, T. Antropova, R. Abdrakhmanov, A. Almabek, Y. Ishkinin, O. Truschenko, Y. Malysheva</i> | EP-1075 |
| > Effect of neoadjuvant chemotherapy and high dose conformal radiotherapy in T3-4 and/or N positive anal cancer
<i>A.R. Jensen (Denmark), M.M. Fode, J.C. Lindegaard, S. Buntsen, L. Lundby</i> | EP-1076 |
| > Combined modality treatment in anal canal carcinoma: impact of full dose treatment and clinical stage category
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| > Postoperative gastric cancer chemoradiation: long term results with CTV definition based on tumor site and p-Stage
<i>V. Picardi (Italy), R. Tambaro, G. Macchia, F. Deodato, S. Mignogna, G. Cecere, F. Pacelli, V. Valentini, N. Cellini, A.G. Morganti</i> | EP-1078 |
| > Role of neoadjuvant chemoradiation in locally advanced unresectable gall bladder cancers
<i>R. Engineer (India), M. Goel, S. Mehta, S.V. Shrikhande, P. Patil, S. Chopra, V. Rangarajan, N. Purandare, S.K. Shrivastava</i> | EP-1079 |
| > FDG-PET SUV and biological markers as predictive factors of tumour response in anal canal cancer treated with RT-CT
<i>M. Krengli (Italy), M.E. Milia, L. Deantonio, L. Turri, G. Loi, G. Sacchetti, R. Boldorini, E. Maldì, T. Cena, C. Magnani</i> | EP-1080 |
| > Loco-regional control after radiochemotherapy for anal cancer: a single centre retrospective analysis
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| > Role of pretreatment CEA level in patients with rectal cancer receiving preoperative chemoradiotherapy
<i>S. Yeo (Korea Republic of), D. Kim</i> | EP-1082 |
| > Adjuvant radiochemotherapy in cholangiocarcinoma may improve overall survival after surgery
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| > Phase II study of helical tomotherapy in the multidisciplinary treatment of oligometastatic colorectal cancer
<i>B. Engels (Belgium), T. Gevaert, H. Everaert, P. De Coninck, A. Sermeus, N. Christian, G. Storme, D. Verellen, M. De Ridder</i> | EP-1084 |
| > Acute toxicity after a diverting stoma and spacer prior to chemoradiation in locally advanced rectal cancer
<i>J.R.N. Van der Voort van Zyp (The Netherlands), H. Ceha, V. Niehe, H. Putter, A. Marinelli, C. Marijnen</i> | EP-1085 |
| > Extrahepatic bile duct cancer: analysis of treatment outcomes and patterns of failure
<i>T.R. Koo (Korea Republic of), J.S. Kim</i> | EP-1086 |
| > Results from a phase II non randomized trial on 145 patients with hepato-cellular carcinoma with VMAT
<i>P. Wang (Taiwan), W.C. Hsu, N.N. Chung, F.L. Chang, E. Vanetti, G. Nicolini, A. Fogliata, L. Cozzi</i> | EP-1087 |
| > Preoperative adaptive tomotherapy concomitant to chemotherapy in rectal cancer: early results of phase I/II study
<i>N. Slim (Italy), N.A. Iacovelli, S. Brenna, P. Passoni, C. Fiorino, S. Broggi, V. Ricci, F. De Cobelli, R. Calandrino, N. Di Muzio</i> | EP-1088 |
| > Proton therapy for pancreatic and ampullary cancer is associated with a low incidence of gastrointestinal toxicity
<i>R. Nichols (USA), T. George, R. Zaiden, S. Hochwald, Z. Awad, M. Ho, Z. Li, N. Mendenhall, W. Mendenhall, B. Hoppe</i> | EP-1089 |

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> Primary diffuse large B-cell lymphoma of the stomach: prognostic factors and outcomes in 160 Indian patients <i>T. Basu (India), S. Laskar, R. Nair, S. Gujral, T. Shet, M. Sengar, H. Menon, K. Mohandas, M. Muckaden</i>	EP-1090
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> Simultaneous integrated boost using intensity modulated radiation therapy for hormone resistant prostate cancer <i>S. Obata (Japan), Y. Ohta, T. Kan, S. Kanegae, Y. Inoue, M. Matsuo, T. Hakariya</i>	EP-1091
> High dose (> 76 Gy) IMRT after prostatectomy: a toxicity evaluation <i>G. Heinrich (Argentina), P. Castro Peña, P. Murina, L. Causa, C. Sanchez, D. Venencia, S. Zunino</i>	EP-1092
> Preventing late rectal and urinary toxicities with glutamine in prostate cancer patients treated with radiotherapy <i>J. Olivera Vegas (Spain), A. Chavez, M.T. Iglesias, J. Luna, J.C. Vara, I. Prieto, A.M. Perez, A. Alvarado, N. Feltes, J. Pardo</i>	EP-1093
> Prostate brachytherapy experience in La Rioja <i>R. Mendoza Ruiz (Spain), E. Jurado Martin, G. Ossola Lentati</i>	EP-1094
> Nadir PSA as predictive marker for biochemical relapse in intermediate and high risk localized prostate cancer <i>A. Masood (Pakistan), A. Muhammad, T. Mehmood, U. Masood, S. Hameed, I. Ahmed</i>	EP-1095
> External beam radiotherapy for prostate cancer: the potential for dose escalation <i>I.M. Lips (The Netherlands), U.A. van der Heide, J.J.W. Lagendijk, M. van Vulpen</i>	EP-1096

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> Incidence of intra-rectal gas retention needs gas evacuation before IMRT for prostate cancer <i>Y. Hamamoto (Japan), S. Taguchi, A. Nishikawa, H. Honda, K. Shigematsu, T. Mochizuki</i>	EP-1098
> VMAT in the treatment of prostate cancer <i>P. Samper Ots (Spain), F. Clemente Gutierrez, M.C. López Carrizosa, M.L. Couselo Paniagua, J. Zapatero Ortuño, V. Jerviz Guia, M. Dominguez Morcillo, J. Saez Garrido, M. Martin de Miguel</i>	EP-1099
> Incorporation of brachytherapy with 125-I seeds for prostate carcinoma at our institution. First results <i>A.M. Perez Casas (Spain), T.P. Iglesias, J. Olivera, M.A. García, J. Luna, I. Prieto, J.C. Vara, A. Chávez, C.M. Díaz, C. Quicios</i>	EP-1100
> Rectal air removal reduces rectal cross-sectional area but doesn't modify center of mass of pelvic organs <i>S. Sabater (Spain), I. Andres, V. De la Vara, M.J. Muñoz, E. Jimenez, M.V. Carrizo, A. Martos, R. Berenguer, M. Aguayo, M. Arenas</i>	EP-1101
> Prostate brachytherapy outcomes in a rural community cancer center <i>L.J. Korb (USA), M.J. Peroski, J.A. Kilduff</i>	EP-1102
> Indications for 2D radiotherapy of high risk prostate cancer <i>A.G. Morganti (Italy), S. Cilla, J. Kigula Mugambe, M. Buwenge, S. Bogale, L. Caravatta, G. Macchia, F. Deodato, V. Picardi, V. Valentini</i>	EP-1103
> Is obesity correlated with gastrointestinal toxicity induced by radiotherapy for prostate cancer? <i>H. Doi (Japan), F. Ishimaru, M. Tanooka, H. Miura, H. Inoue, Y. Takada, M. Fujiwara, S. Yamamoto, N. Kamikonya, S. Hirota</i>	EP-1104

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> A low-dose rate prostate brachytherapy post-implant sectors evaluation <i>C. Chiumento (Italy), A. Fiorentino, R. Caivano, M. Cozzolino, S. Clemente, P. Pedicini, V. Fusco</i>	EP-1105
> No additional value of MRI to ultrasound imaging in external beam treatment planning of localized prostate cancer <i>W. Grootjans (The Netherlands), C.J.M. Hoekstra, S.M.G. van de Pol, H. Westendorp, A.W.H. Minken</i>	EP-1106
> Hypofractionated IMRT to prostate and pelvic lymph nodes: analysis of acute toxicity <i>A. Martin (United Kingdom), P. Treasure, R. Verma, P. Ostler, P. Hoskin, N. Anyamene, R. Alonzi, R. Hughes</i>	EP-1107
> The effect of bowel preparation prior to planning CT on rectal volume & isocentre shift during prostate radiotherapy <i>L. Pettit (United Kingdom), K. Tune-Blundell, S. Tirmazy, P. Ramachandra</i>	EP-1108
> Postoperative radiotherapy in patients with biochemical failure after radical prostatectomy: clinical outcome <i>J.G.M. Vemer - van den Hoek (The Netherlands), P. van Rooij, C.H. Bangma, S. Aluwini</i>	EP-1109
> Does the treated volume have an impact on set-up errors in the Rapidarc™ treatment of prostate carcinoma? <i>C. Garibaldi (Italy), B.A. Jerezek-Fossa, D. Zerini, C. Fodor, R. Cambria, M. Bonora, R. Mauro, P. Fanti, I. Bossi-Zanetti</i>	EP-1110
> Use of DWI and ADC values in detection and staging of prostate cancer of the central gland and the peripheral zone <i>L. Scanton (Ireland Republic of), D. Moran, A. Fagan, J. Meaney, T. Lynch, M. Leech, M. Coffey, D. Hollywood, L. Marignol</i>	EP-1111

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> Does rectal diameter affect acute toxicity of radical radiotherapy for prostate cancer? <i>C.J. Perry (United Kingdom), G.A. Walker, S. Sundar</i>	EP-1113
> The incidence of impotence +/- PDE5 inhibitor after dose escalated post-prostatectomy salvage radiation therapy <i>D. Shasha (USA), W.F. Mourad, R.A. Shourbaji, J. Dolan, N. Shah, R. Ambrose, J. Santoro, R. Woode, L.B. Harrison</i>	EP-1114
> Radical prostate radiotherapy to M0 patients with a presenting PSA of more than 100 <i>G.A. Walker (United Kingdom), C.J. Perry, S. Sundar</i>	EP-1115
> VMAT compared to sliding window IMRT for whole pelvis irradiation of locally advanced prostate cancer <i>O. Riou (France), P. Regnault de la Mothe, D. Azria, N. Aillères, J.B. Dubois, P. Fenoglioletto</i>	EP-1116
> Prostate-specific antigen spikes with 131Cs brachytherapy. Is there a difference with other radioisotopes? <i>S. Beriwal (USA), R.P. Smith, C. Houser, R.M. Benoit</i>	EP-1117
> Assessment of stability of Gold Anchor™ fiducial marker implants in the prostate <i>A. Kukielka (Poland), P. Brandys, M. Hetnal, E. Pluta, A. Jankowska, A. Sladowska, K. Kisielewicz</i>	EP-1118
> Decreased dose to the rectum during photon therapy of the prostate - A comparative study <i>K. Nilsson, A. Johansson (Sweden), I. Turesson, U. Isacson, G. Ljung</i>	EP-1119

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> Hypofractionated radiotherapy with helical tomotherapy for localized prostate cancer <i>N. Isa (Spain), J.L.L.G. Jose Luis Lopez Guerra, R.M.M. Raúl Matute, F.P. Fernando Puebla, G.G. Graciela Garcia, A.S. Alicia Sanchez, A.S.R. Alberto Sanchez-Reyes, C.B. Cesar Beltran, H.M. Hugo Marsiglia</i>	EP-1121
> RayPilot - electromagnetic real-time positioning in radiotherapy of prostate cancer - initial clinical results <i>E. Castellanos (Sweden), M. Hjelm Ericsson, B. Sorcini, U. Green, S. Nilsson, B. Lennernäs</i>	EP-1122
> Morbidity associated with salvage radical prostatectomy for recurrent prostate cancer after radiotherapy <i>E. Gonzalez (Spain), C. Salas, J. Soto, V. Diaz, L. Gutierrez, I. Villanego, L. Diaz, D. De las Peñas, E. Alonso</i>	EP-1123
> Urodynamic changes following salvage radiotherapy for recurrent prostate cancer after radical prostatectomy <i>A. Collado Serra (Spain), E. Arregui López, J. Rubio Briones, M. Casaña Giner, L. Arribas Alpuente, E. Solsona Narbón</i>	EP-1124
> Outcomes of high dose dynamic conformal arc irradiation for patients with T1c-T2N0M0 prostate cancer <i>I. Ikeda (Japan), T. Mizowaki, Y. Norihisa, M. Ogura, T. Kamba, T. Inoue, Y. Shimizu, T. Kamoto, O. Ogawa, M. Hiraoka</i>	EP-1125
> Hypofractionated boost to the prostate after whole pelvis radiotherapy for patients with high-risk prostate cancer <i>S. Jorcano Picart (Spain), T. Zilli, R. Miralbell</i>	EP-1126

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> Pattern care study on invasive bladder cancer at radiation oncology services in Spain <i>C. Salas (Spain), L. Gutiérrez, E. Gonzalez, E. Munive, I. Villanego, V. Diaz, L. Diaz, M.D. Peñas</i>	EP-1128
> Quality of life 54 months after high-dose intensity-modulated radiotherapy for localized prostate cancer <i>A. Goineau (France), V. Marchand, S. Bourdin, E. Rio, L. Champion, A. Lisbona, M.A. Mahe, S. Supiot</i>	EP-1129
> MR guided cryoablation of recurrent prostate cancer after radiotherapy; a feasibility study <i>J. Futterer (The Netherlands), J.G.R. Bomers, M. Sedelaar, E. van Lin, F. de Lange, D. Yakar</i>	EP-1130
> Incidence of acute urinary toxicity in patients treated with pelvic external radiotherapy <i>J. Park (Korea Republic of), Y. Kim, J.H. Kim, E.K. Choi, J. Park, S. Lee, S.D. Ahn</i>	EP-1131
> Salvage stereotactic body radiotherapy for patients with limited prostate cancer metastases <i>G. De Meerleer (Belgium), P. Berkovic, L. Delrue, B. Lambert, N. Lumen, V. Fonteyne, G. Villeirs, P. Ost</i>	EP-1132
> PSA bounce and biochemical relapse <i>S. Servagi Vernat (France), E. Bonnet, M. Puyraveau, P. Bontemps, P.C. Henry, M. Diot Vaschy, J.F. Bosset</i>	EP-1133
> Online daily correction with CT-cone beam in prostate cancer treatment with volumetric modulated arc-therapy <i>S. Magrini (Italy), S. Tonoli, L. Pegurri, R. Gatta, L. Berta, F. Corrado</i>	EP-1134

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> Radiation therapy (+/- chemotherapy) for bladder cancer in very elderly patients <i>M. Bonet Beltran (Spain), T. Bonfill, E. Mur, E. Gallardo, L. Fernandez, J.L. Gonzalez, D. Garcia, R. Martos, A. Aguilar, J. Prats</i>	EP-1135
> Outcomes from image guided radiotherapy (IGRT) for bladder cancer in a series of 141 patients <i>A. Jain (United Kingdom), H. Summers, K. Franks, D. Bottomley, A.E. Kiltie, C. Coyle, J. Joseph, A.M. Henry</i>	EP-1136
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> Ultrasound guided endocavitary HDR-Ir192 brachytherapy for locally advanced carcinoma of cervix <i>G. Koukourakis (Greece), E. Geli, V. Polizoï, L. Vlachodimitropoulou, A. Kafkoulas, P. Karagianni, E. Pappas, A. Sotiropoulou-Lontou</i>	EP-1137
> Analysis of tumour coverage in image-guided post-operative vaginal HDR brachytherapy of cervical cancer <i>S. Tachiiri (Japan), K. Tanaka, T. Kosuga, M. Yanagawa, H. Fukushima, K. Hayakawa</i>	EP-1138
> Predictive value of pretreatment FDG-PET for tumor response after primary treatment for cervical cancers <i>F. Cellini (Italy), R. vanStiphout, L. Lutgens, P. Lambin</i>	EP-1139
> Correlation between clinical vs magnetic resonance findings in assessment of local response in cervical cancer <i>I. Rios (Spain), I. Valduvico, A. Biete</i>	EP-1140
> Evaluation of results for radiochemotherapy in women with advanced cervical cancer- five years follow-up <i>Z. Warenczak-Florczak (Poland), A. Roszak, K. Bratos, H. Włodarczyk, B. Urbanski, I. Urbaniak, E. Burchardt</i>	EP-1141

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| > FDG SUVmax not associated with recurrence risk in 28 cases and 28
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 - > Definitive radiotherapy compared with induction chemoradiotherapy plus surgery for non-small cell lung cancer
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 - > Patterns of failure after conformal 3D radiotherapy for NSCLC with target delineation based on staging PET/CT
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yolcu T.Y.	EP-1381	Zeverino M.	EP-1037, EP-1294, PO-0831, PO-0835		
Yoon H.	EP-1215	Zeverino M.Z.	PD-0280		
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Yu J.	EP-1569	Zilli T.	EP-1126, PD-0312, PO-0679		
Yu M.C.	EP-1200	Zimmermann F.	EP-1003		
Yu S.	OC-0390, PO-0846	Zimmermann F.B.	EP-1278		
Yu X.	EP-1334	Zimmermann S.	EP-1393		
Yuan J.M.	EP-1200	Zincircioglu B.	EP-1046		
Yuan Z.	PO-0743	Zindler J.D.	PO-0646		
Yuce Sari S.	EP-1410	Zink K.	PD-0347, PO-0633		
Yunaiyama D.	EP-1182	Ziouech A.	OC-0481		
Yurut-Caloglu V.	EP-1576	Zioueche A.	EP-1281		
Yutaka N.	EP-1548	Zips D.	OC-0067, OC-0388, PO-0905, SP-0409		
Zackrisson B.	PO-0785	Ziv I.L.A.N.	PO-0656		
Zadeh G.	PO-0639	Zlobinskaya O.	PO-0938		
Zafarana E.	SP-0252	Zoleto Camacho O.	EP-0972, EP-0994, EP-1231		
Zahmatkesh M.H.	PO-0799	Zoleto Carmona O.	EP-1062		
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Zaiden R.	EP-1089	Zolnay A.	OC-0461, OC-0462, PD-0346		
Zakharkina O.	OC-0472	Zonnenberg B.A.	OC-0023		
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Zamboglou N.	SP-0104				



SCIENTIFIC PROGRAMME

Thursday 10 May 2012

		ABS. NUMBER
WELCOME AND INTRODUCTION		
<i>08:00 - 08:10 • Room 112</i>		
SYMPOSIUM		
MODERN BRACHYTHERAPY: ROLE OF NEW IMAGE MODALITIES		
<i>08:10 - 10:40 • Room 112</i>		
CHAIR: <i>J.C.A. Dimopoulos (Greece)</i>		
CHAIR: <i>V. Lowe (USA)</i>		
08:10	> Modern brachytherapy (BT): role of new imaging modalities SPEAKER: <i>C. Haie-Meder (France)</i>	1
08:25	> Modern Brachytherapy: role of functional imaging SPEAKER: <i>B. Carey (United Kingdom)</i>	2
08:55	> PET imaging in brachytherapy SPEAKER: <i>V. Lowe (USA)</i>	3
09:25	> MRI: impact on brachytherapy SPEAKER: <i>I. Jürgenliemk-Schulz (The Netherlands)</i>	4
09:55	> Modern brachytherapy: role of ultrasound SPEAKER: <i>P. Hoskin (United Kingdom)</i>	5
10:25	> Conclusion - Image-guided brachytherapy future and evaluation SPEAKER: <i>J.C.A. Dimopoulos (Greece)</i>	6
PANEL SESSION: 1		
PROSPECTIVE TRIALS FOR PARTIAL BREAST IRRADIATION		
<i>11:10 - 12:25 • Room 112</i>		
CHAIR: <i>D. Wazer (USA)</i>		
CHAIR: <i>E. Van Limbergen (Belgium)</i>		
11:15	> European experience SPEAKER: <i>C. Polgár (Hungary)</i>	7
11:27	> North American experience SPEAKER: <i>D. Arthur (USA)</i>	8

Thursday 10 May 2012

		ABS. NUMBER
11:39	> TARGIT SPEAKER: <i>D. Joseph (Australia)</i>	9
11:51	> ELIOT trials in Milan: results SPEAKER: <i>R. Orecchia (Italy)</i>	10
12:03	> Long term results and on-going trials of permanent breast seed implant SPEAKER: <i>J. Pignol (Canada)</i>	11
AWARD LECTURE		
MARIE CURIE MEDAL PRESENTATION		
<i>12:25 - 13:00 • Room 112</i>		
12:25	> Introduction <i>C. Haie-Meder (France)</i>	12
12:30	> Brachytherapy in cancer: art and science - accomplishments in over a century SPEAKER: <i>C. Perez (USA)</i>	13
PANEL SESSION		
PROSTATE 1: IS THERE A ROLE FOR PRIMARY FOCAL THERAPY?		
<i>14:30 - 15:30 • Room 112</i>		
CHAIR: <i>J. Cosset (France)</i>		
CHAIR: <i>J. Crook (Canada)</i>		
14:30	> Understanding the pathological features of prostate cancer as a foundation for focal targeted BT SPEAKER: <i>D. Bostwick (USA)</i>	14
14:45	> Primary focal therapy of prostate cancer: role of diagnostic imaging SPEAKER: <i>F. Coakley (USA)</i>	15
15:00	> Technical possibilities of radiotherapy in primary focal therapy of prostate cancer SPEAKER: <i>G. Kovács (Germany)</i>	16

Thursday 10 May 2012

	Abs. NUMBER
15:15 > Non-radiation techniques SPEAKER: <i>T. de Reijke (The Netherlands)</i>	17

PANEL SESSION PHYSICS 1: DOSE TO WATER CALIBRATION

14:30 - 15:30 • Room 111

CHAIR: *J. Venselaar (The Netherlands)*CHAIR: *L. De Werd (USA)*

14:30 > 20 EURAMET project: new calibration standards in brachytherapy SPEAKER: <i>T. Sander (United Kingdom)</i>	18
14:50 > Brachytherapy calibration standards in the USA SPEAKER: <i>L. De Werd (USA)</i>	19
15:10 > Ramifications of dose-rate to water calibrations on clinical dosimetry for photon-emitting brachytherapy sources SPEAKER: <i>M. Rivard (USA)</i>	20

PANEL SESSION GYNAECOLOGY 1: ARE WE DECREASING MORBIDITY WITH IMAGE-GUIDED BRACHYOTHERAPY?

16:00 - 17:00 • Room 112

CHAIR: *J.C. Lindegaard (Denmark)*CHAIR: *B. Erickson (USA)*

16:00 > Clinical results SPEAKER: <i>R. Pötter (Austria)</i>	21
16:20 > DVH parameter analysis SPEAKER: <i>K. Tanderup (Denmark)</i>	22
16:40 > What are the pitfalls (integrating organ motion, external beam) SPEAKER: <i>B. Erickson (USA)</i>	23

Thursday 10 May 2012

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PROFFERED PAPERS

PROSTATE 1

16:00 - 17:00 • Room 111

CHAIR: *A. Haworth (Australia)*CHAIR: *B. Davis (USA)*

16:00 > Ten-year outcomes for patients with Gleason 8-10 treated with high dose rate brachytherapy boost <i>A. Martinez (USA), C. Shah, N. Mohammed, J. Demanes, R. Martinez-Monge, H. Ye, R. Galalae</i>	OC-024
16:10 > High-Dose Rate Afterloading Brachytherapy Using One or Two Fractions for Localised Prostate Cancer <i>P. Hoskin (United Kingdom), A. Rojas, P. Ostler, R. Hughes, R. Alonzi, L. Bryant, G. Lowe</i>	OC-025
16:20 > Prostate cancer: single fraction HDR boost - 12.5Gy or 15Gy - with external beam radiation. A comparison of toxicity <i>C. Arthur (United Kingdom), J. Malik, R. Swindell, P. Mandall, A. Choudhury, J. Logue, J. Wylie</i>	OC-026
16:30 > A dosimetric analysis of Radiation Therapy Oncology Group (RTOG) 0321: The importance of urethral dose <i>I. Hsu (USA), D. Hunt, W. Straube, J. Pouliot, A. Cunha, D. Krishnamurthy, H. Sandler</i>	OC-027
16:40 > HDR prostate brachytherapy in anatomically unsuitable cases (<20cc, >50cc, prior TURP)- Uncompromised results <i>A. Peddada (USA), S. Jennings, R. Biggers, G. Gibbs, E. Cohn, A. Monroe</i>	OC-028
16:50 > Salvage HDR brachytherapy for recurrent prostate cancer after prior definitive radiotherapy: five year outcomes <i>C.P. Chen (USA), V. Weinberg, K. Shinohara, M. Nash, A. Gottschalk, M. Roach III, I. Hsu</i>	OC-029

Thursday 10 May 2012

		Abs. NUMBER
PROFFERED PAPERS		
PROSTATE 2		
17:05 - 18:35 • Room 112		
CHAIR: <i>D. Todor (USA)</i>		
CHAIR: <i>P. Hoskin (United Kingdom)</i>		
17:05	>	Results of I-125 strands +- EBRT +-ADT in localized prostate cancer compared to Kattan (2002) nomogram predictions <i>J. Zimmermann (Germany), P. Zimmermann, C. Moustakis</i> OC-030
17:15	>	Comparison of distant metastases for prostate cancer patients treated with prostatectomy, brachytherapy or IMRT <i>M. Zelefsky (USA), J. Eastham, P. Scardino, X. Pei, M. Kollmeier, B. Cox, Y. Yamada</i> OC-031
17:25	>	A dosimetric analysis of prostate cancer treatment: Can SBRT really achieve what HDR brachytherapy can? <i>D.E. Spratt (USA), M. Scala, G.N. Cohen, L. Happersett, M.J. Zelefsky, M. Kollmeier, B. Cox, Y. Yamada</i> OC-032
17:35	>	Comparative cost-effectiveness of salvage brachytherapy vs. hormonal treatment of recurrent prostate cancer <i>L. Steuten (The Netherlands), M. Piena, M. Peters, M. van Vulpen</i> OC-033
17:45	>	A novel method to quantify prostate seed implant plan quality by performing individual seed displacement analysis <i>Y. Le (USA), R. Alexander, E. Armour, D. Song</i> OC-034
17:55	>	CBCT guided intraoperative dynamic dosimetry significantly improves dosimetry for I125 prostate brachytherapy <i>R. Westendorp (The Netherlands), J. Immerzeel, R. Kattevilder, C. Hoekstra, S. van de Pol, T. Nuver, A. Minken</i> OC-035

Thursday 10 May 2012

		Abs. NUMBER
18:05	>	Validation study of US-based HDR prostate brachytherapy planning compared to CT gold standard <i>M. Gaztanaga (Canada), J. Crook, C. Araujo, M. Schmidt, F. Bachand, D. Batchelar</i> OC-036
18:15	>	The prostate tumorlet project. Critical analysis of D90: tilting at windmills? <i>D. Todor (USA), P.S. Lin, I. Barani, M. Axente, M.P. Hagan, M. Anscher</i> OC-037
18:25	>	Biochemical disease free survival of 3D image guided brachytherapy boost within a permanent seed implant <i>A.G. Martin (Canada), S. Aubin, N. Varfalvy, E. Vigneault, E. Vigneault, L. Beaulieu, P. Després</i> OC-038
PROFFERED PAPERS		
GYNAECOLOGY 1		
17:05 - 18:35 • Room 111		
CHAIR: <i>A. Viswanathan (USA)</i>		
CHAIR: <i>J. Guinot (Spain)</i>		
17:05	>	Outcome of image guided adaptive brachytherapy in locally advanced cervical cancer <i>J.C. Lindegaard (Denmark), L. Fokdal, S.K. Nielsen, L.L. Røhl, E.M. Pedersen, L.K. Petersen, E.S. Hansen, K. Tanderup</i> OC-039
17:15	>	Image guided brachytherapy ends the debate of systematic radical hysterectomy in locally advanced cervical cancer <i>R. Mazon (France), J. Gilmore, I. Dumas, J. Champoudry, J. Goulart, B. Vanneste, A. Tailleux, P. Morice, C. Haie-Meder</i> OC-040
17:25	>	Pulsed low-dose rate brachytherapy for uterine cervix carcinoma: experience with 245 patients at a single institute <i>A. Petit (France), L. Thomas, A. Floquet, O. Lasbareilles, E. Stoeckle, A. Chemin, M. Kind, F. Guyon, V. Brouste, J. Pigneux</i> OC-041

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		Abs. NUMBER
17:35	> Interstitial brachytherapy versus IMRT in patients with carcinoma cervix unsuitable for ICRT <i>A.K. Gandhi (India), D.N. Sharma, S. Sharma, D. Manigandan, G.K. Rath, P.K. Julka</i>	OC-042
17:45	> Treatment dose and volume parameters from 3 years experience of the EMBRACE study <i>K. Nkiwane (Austria), K. Tanderup, C. Kirisits, J. Lindegaard, M. Federico, R. Pötter, E.M. EMBRACE Study Centers</i>	OC-043
17:55	> Models for brachytherapy dose de-escalation in low risk locally advanced cervical cancer patients <i>S. Mohamed (Denmark), K. Tanderup, C. Kirisits, R. Pötter, J.C. Lindegaard</i>	OC-044
18:05	> Feasibility of ADC mapping in assessment of tumor response in MRI-based HDR brachytherapy for cervical cancer <i>K. Hosseinzadeh (USA), M.S. Rajagopalan, S. Beriwal</i>	OC-045
18:15	> High Dose Rate (HDR) intraoperative brachytherapy in the management of recurrent gynecologic malignancies <i>L.M. Scala (USA), D. Chi, B. Bochner, V. Andikyan, S. Gerst, J. Sandhu, P. Boland, Y. Sonoda, K. Alektiar</i>	OC-046
18:25	> Clinical outcomes following 3D image-guided brachytherapy for recurrent endometrial cancer <i>L. Lee (USA), A. Viswanathan</i>	OC-047

Friday 11 May 2012

		Abs. NUMBER
SYMPOSIUM		
RADIOBIOLOGICAL MODELLING IN BRACHYTHERAPY: CLINICAL RELEVANCE?		
08:00 - 09:00 • Room 112		
CHAIR: <i>J. Sylvester (USA)</i>		
CHAIR: <i>V. Bourel (Argentina)</i>		
08:00	> Repair half-time SPEAKER: <i>S. Bentzen (USA)</i>	48
08:20	> Different mathematical models and what's missing SPEAKER: <i>V. Bourel (Argentina)</i>	49
08:40	> Radiobiological changes during the course of treatment SPEAKER: <i>A. Haworth (Australia)</i>	50
PROFFERED PAPERS		
MISCELLANEOUS		
09:05 - 10:05 • Room 112		
CHAIR: <i>J. Gérard (France)</i>		
CHAIR: <i>U. Mahantshetty (India)</i>		
09:05	> Outcome and toxicity profile after brachytherapy for squamous cell carcinoma of the nasal vestibule. <i>D. Lipman, R.P. Takes, L.C. Verhoef, J.H. Kaanders, G.O. Janssens (The Netherlands)</i>	OC-051
09:15	> Perioperative vs. postoperative high-dose-rate brachytherapy in squamous cell HNC: A matched-pair analysis <i>M. Rodriguez-Ruiz (Spain), I. San Miguel, J. Alcalde, N. Montesdeoca, M. Cambeiro, J.M. Lopez-Picazo, A. Olarte, F. Arias, V. Chicata, R. Martinez-Monge</i>	OC-052
09:25	> From low dose rate to high dose rate brachytherapy in lip carcinoma: same results but less complications <i>J.L. Guinot (Spain), L. Arribas, M.I. Tortajada, M. Carrascosa, M. Santos, P. Soler, A. Mut, C. Pseudo, M.L. Chust</i>	OC-053

Friday 11 May 2012

		Abs. NUMBER
09:35	> Long term outcomes of interstitial brachytherapy in soft tissue sarcomas <i>S. Laskar (India), A. Puri, A. Gulia, B. Rekhi, S. Juvekar, S. Desai, S. Desai, S. Gupta, J. Ghosh, N. Jambhekar</i>	OC-054
09:45	> Long-term results of PDR brachytherapy as a boost in squamous cell cancers of the anal canal <i>D.P. Peiffert (France), A. Haddad, L. Rangeard, I. Buchheit, S. Huger, A.S. Baumann, S. Oldrini</i>	OC-055
09:55	> Bladder sparing approach with brachytherapy in 1040 patients <i>B. Pieters (The Netherlands), L. Blank, C. Koedooder, R. van Os, M. van de Kar, E. Jansen, E. Geijsen, C. Koning</i>	OC-056

DEBATE**KEY CONTROVERSIES ON PATIENT SELECTION FOR PARTIAL BREAST IRRADIATION**

09:05 - 10:05 • Room 111

CHAIR: *R. Patel (USA)*CHAIR: *V. Strnad (Germany)*

09:05	> Partial breast irradiation: from the US side SPEAKER: <i>R. Kuske (USA)</i>	57
09:35	> Partial breast irradiation: from the European side SPEAKER: <i>E. Van Limbergen (Belgium)</i>	58

PANEL SESSION: 2**A PERSPECTIVE ON HEALTH ECONOMICS IN BRACHYTHERAPY**

10:35 - 11:35 • Room 112

CHAIR: *E. Rosenblatt (Austria)*

10:35	> How can brachytherapy be more systematically used in emerging countries SPEAKER: <i>R. Bilimagga (India)</i>	59
10:40	> North America SPEAKER: <i>D. Beyer (USA)</i>	60

Friday 11 May 2012

		Abs. NUMBER
10:45	> Australian prostate brachytherapy SPEAKER: <i>J. Millar (Australia)</i>	61
10:50	> Europe SPEAKER: <i>Y. Lievens (Belgium)</i>	62
10:55	> South America SPEAKER: <i>M. de la Torre (Argentina)</i>	63
11:00	> The role of industry in developing cost-effective brachytherapy SPEAKER: <i>E. Rosenblatt (Austria)</i>	64

PROFFERED PAPERS**PHYSICS 1**

10:35 - 11:35 • Room 111

CHAIR: *T.P. Hellebust (Norway)*CHAIR: *W. Butler (USA)*

10:35	> Development of a water calorimeter as a primary standard for absorbed dose to water for HDR brachytherapy sources <i>L.A. de Prez (The Netherlands), J.A. de Pooter</i>	OC-065
10:45	> QC of low-energy photon BT sources: recommendations of the Netherlands Commission on Radiation Dosimetry (NCS) <i>A. Rijnders (Belgium), A. Aalbers, M. De Brabandere, C. Koedooder, M.A. Moerland, B. Schaeken, B. Thissen, A. van 't Riet, S. Vynckier</i>	OC-066
10:55	> AAPM practice guidelines for COMS eye plaque brachytherapy <i>S.T. Chiu-Tsao, M.A. Astrahan, P.T. Finger, D.S. Followill, A.S. Meigooni, F. Mourtada, M.E. Napolitano, R. Nath, M.J. Rivard and C.S. Melhus (USA), D.W.O. Rogers and R.M. Thomson</i>	OC-067
11:05	> Dosimetric characterization of surface applicators used with brachytherapy sources <i>R. Fulkerson (USA), J. Micka, L. DeWerd</i>	OC-068

Friday 11 May 2012

- | | Abs. NUMBER |
|---|-------------|
| 11:15 > *** ESTRO Nucletron Brachytherapy Award ***
Bringing in-vivo fiber-coupled brachytherapy dosimetry to the patient
<i>G. Kertzscher (Denmark), C.E. Andersen, J.C. Lindegaard, L.U. Fokdal, M. Paludan, S.K. Nielsen, K. Tanderup</i> | OC-069 |
| 11:25 > A revolutionary multi-point plastic scintillation detector for in vivo dosimetry in HDR brachytherapy.
<i>F. Therriault-Proulx (USA), L. Archambault, S. Beddar, L. Beaulieu</i> | OC-070 |

POSTER HIGHLIGHTS

11:40 - 12:40 • Room 112

CHAIR: *N. Suchowerska (Australia)*CHAIR: *M. de la Torre (Argentina)*

- | | |
|--|--------|
| 11:40 > Single nucleotide polymorphisms (SNP's) associated with late radiation toxicity after prostate brachytherapy
<i>N. Leong (Canada), M. Parliament, K. Martell, S. Ghosh, N. Pervez, J. Pedersen, D. Yee, A. Murtha, J. Amanie, N. Usmani</i> | OC-071 |
| 11:47 > Salvage high dose rate (HDR) interstitial gynecological brachytherapy
<i>N. Patil (Canada), D. D'Souza, E. Wiebe, G. Hajdok, T. Murray, L. Derrah, M. Prefontaine, A. Sugimoto, S. Welch, K. Surry</i> | OC-072 |
| 11:54 > Urethral dosimetry and toxicity with high dose-rate interstitial brachytherapy
<i>M.S. Rajagopalan (USA), N. Kannan, H. Kim, C. Houser, S. Beriwal</i> | OC-073 |
| 12:03 > Does partial breast brachytherapy decreases scattered fetal dose in pregnant women?
<i>A. Youssef (USA), T. LaCouture, N. Pahlajani, L. Hughes, Y. Chen, L. An, P. Potrebko, N. Kramer, S. Asbell</i> | OC-074 |

Friday 11 May 2012

- | | Abs. NUMBER |
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| 12:10 > CT-guided interstitial iodine-125 seed implantation in the treatment of spinal and paraspinal malignancies
<i>C. Liu (China), H.S. Yuan, J.J. Wang, N. Meng, Y.Q. Ma, S.B. Han, C.N. Pang</i> | OC-075 |
| 12:17 > Postoperative radiation therapy in carcinoma of oral tongue with high dose rate brachytherapy boost - our experience
<i>V. Anand (India), M. Lala, S. Deshpande, P. Patwe, R. Mhatre, V. Kannan</i> | OC-076 |
| 12:24 > Feasibility of convex optimisation with radiobiological models for prostate HDR-brachytherapy
<i>F. Steenbergen (The Netherlands), D. den Hertog, B. Gorissen, A.L. Hoffmann</i> | OC-077 |
| 12:31 > Characterization of a new Ce3+ doped scintillation detector for in vivo dosimetry in high dose rate brachytherapy
<i>M. Borroni (Italy), M. Carrara, C. Cavatorta, G. Gambarini, E. Pignoli, A. Vedda</i> | OC-078 |

PANEL SESSION

PROSTATE 2: SALVAGE TREATMENT AFTER BRACHYTHERAPY FAILURE

14:00 - 15:00 • Room 112

CHAIR: *M. Zelefsky (USA)*CHAIR: *G. Kovács (Germany)*

- | | |
|--|----|
| 14:00 > Re-implantation
SPEAKER: <i>M. Roach (USA)</i> | 79 |
| 14:30 > Radical salvage prostatectomy for radiorecurrent prostate cancer
SPEAKER: <i>A. Heidenreich (Germany)</i> | 80 |

Friday 11 May 2012

Abs. NUMBER

**PROFFERED PAPERS
GYNAECOLOGY 2**

14:00 - 15:00 • Room 111

CHAIR: *F. Patel (India)*CHAIR: *L. Linares (USA)*

- 14:00 > A multicentre comparison of inter- and intra-fractional organ movement in cervix cancer BT and its dosimetric impact
N. Nesvacil (Austria), K. Tanderup, T. Paulsen-Hellebust, A. De Leeuw, C. Anderson, S. Mohamed, R. Pötter, C. Kirisits OC-081
- 14:10 > Preplanning improves feasibility of intracavitary/interstitial brachytherapy in cervical cancer.
L. Fokdal (Denmark), K. Tanderup, S.B. Hokland, L. Røhl, E.M. Pedersen, S.K. Nielsen, J.C. Lindegaard OC-082
- 14:20 > Spatial dosimetric sensitivity analysis of contouring uncertainties in GYN 3D-based brachytherapy
T.P. Hellebust (Norway), P. Petric, K. Tanderup, D. Berger, E. Fidarova, R. Pötter, C. Haie-Meder, E. Malinen OC-083
- 14:30 > A novel method to assess organ motion during 3D image-guided pulsed dose rate cervix cancer brachytherapy
J. Champoudry (France), J. Gilmore, I. Dumas, J. Goulart, A.S. Oberlander, R. Mazon, I. Diallo, D. Lefkopoulos, C. Haie-Meder OC-084
- 14:40 > Deformation analysis of PDR brachytherapy in cervical carcinoma
J. Cuartero (Canada), M.L. Yap, S. Oh, M. Morgia, Y.B. Cho, J. Xie, W. Levin, L. Manchul, A. Fyles, M. Milosevic OC-085
- 14:40 > Inter-fraction uncertainties of OARs metrics in multi-fraction gynecologic interstitial brachytherapy
M. Bhagwat, A. Damato (USA), A. Kovacs, K. Townamchai, R. Cormack, A. Viswanathan OC-086

Friday 11 May 2012

Abs. NUMBER

**PROFFERED PAPERS
BREAST 1**

15:05 - 16:05 • Room 112

CHAIR: *J. Pignol (Canada)*CHAIR: *J.M. Hannoun-Levi (France)*

- 15:05 > Breast-conserving therapy with partial or whole breast RT: 10-year results of the Budapest randomized trial
C. Polgár (Hungary), T. Major, J. Fodor, Z. Sulyok, Z. Takacs-Nagy, G. Nemeth, M. Kasler OC-087
- 15:15 > First clinical results of the GEC-ESTRO breast WG Phase III multicentric APBI trial
V. Strnad (Germany), O.J. Ott, G. Hildebrandt, R. Pötter, R. Fietkau, J. Lyczek, W. Uter, T. Major, M. Lotter, C. Polgar OC-088
- 15:25 > Partial breast accelerated radiotherapy with multicatheter HDR brachytherapy
C. Monti (Brazil), E. Marussi, R. Torresan, F. Brandão, N. Kawakami, M.C. Scoz OC-089
- 15:35 > Efficacy of young patients treated with accelerated partial breast irradiation for early-stage breast cancer
P.Y. Chen (USA), C. Shah, J.B. Wilkinson, C.K. Mitchell, M. Wallace, F.A. Vicini OC-090
- 15:45 > Long term outcomes and recurrence pattern following accelerated partial breast irradiation using Mammosite
A. Ravi (USA), C. Sison, A. Osian, S. Lee, D. Nori OC-091
- 15:55 > Impact of margin status after APBI: an analysis of the American Society of Breast Surgeons MammoSite® Registry Trial
J.B. Wilkinson (USA), C. Shah, M. Keisch, P. Beitsch, D. Arthur, M. Lyden, F.A. Vicini OC-092

Friday 11 May 2012

Abs. NUMBER

PANEL SESSION**PHYSICS 2: UNCERTAINTIES IN BRACHYTHERAPY AND HOW TO REPORT THEM?**

15:05 - 16:05 • Room 111

CHAIR: *F. Siebert (Germany)*CHAIR: *M. Rivard (USA)*

- 15:05 > TG-138 report: uncertainties in photon emitting brachytherapy source dosimetry
SPEAKER: *B. Thomadsen (USA)* 93
- 15:25 > Systematic overview and reporting guidelines for uncertainties in clinical brachytherapy
SPEAKER: *C. Kirisits (Austria)* 94
- 15:45 > Uncertainties in image guided brachytherapy: economical and logistical aspects
SPEAKER: *J.A. Polo Rubio (Spain)* 95

SYMPOSIUM**HOW TO IMPROVE SAFETY IN BRACHYTHERAPY? PRACTICAL EXAMPLES**

16:35 - 17:35 • Room 112

CHAIR: *G. Morton (Canada)*CHAIR: *C. Kirisits (Austria)*

- 16:35 > Is high safety in brachytherapy a result of advanced techniques and advanced imaging?
SPEAKER: *D. Baltas (Germany)* 96
- 17:05 > Strategies to prevent errors in brachytherapy: learning from our mistakes
SPEAKER: *R. Lee (USA)* 97

Saturday 12 May 2012

Abs. NUMBER

SYMPOSIUM**NEW OPPORTUNITIES WITH ROBOTIC, ENDOSCOPIC AND RADIOLOGICAL INTERVENTIONS**

08:00 - 09:00 • Room 112

CHAIR: *J. Demanes (USA)*CHAIR: *M. Moerland (The Netherlands)*

- 08:00 > Robot assisted mesh brachytherapy after sublobar resection for early stage lung cancer
SPEAKER: *D. Khuntia (USA)* 98
- 08:20 > Rigid rectoscopy to improve radiation targeting and individualise management of rectal cancer
SPEAKER: *J. Gérard (France)* 99
- 08:40 > Radiological intervention
SPEAKER: *G. Gademann (Germany)* 100

SYMPOSIUM**ROLE OF IAEA AND UICC IN BRACHYTHERAPY TRAINING**

09:05 - 10:05 • Room 112

CHAIR: *B. Prestidge (USA)*

- 09:05 > Brachytherapy: the IAEA vision and policy
SPEAKER: *E. Fidarova (Austria)* 101
- 09:35 > UICC: role of radiation therapy and brachytherapy in improving cancer outcomes in the world
SPEAKER: *M. Gospodarowicz (Canada)* 102

SYMPOSIUM**SKIN BRACHYTHERAPY**

09:05 - 10:05 • Room 111

CHAIR: *Z. Ouhib (USA)*CHAIR: *R. Bilimagga (India)*

- 09:05 > What are the best indications for brachytherapy in non-melanoma skin cancers?
SPEAKER: *M. Delannes (France)* 103

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09:25 > Physics requirements for skin brachytherapy SPEAKER: <i>J. Perez-Calatayud (Spain)</i>	104
09:45 > Skin brachytherapy from the dermatologist side SPEAKER: <i>J. Strasswimmer (USA)</i>	105

PANEL SESSION
GYNAECOLOGY 2: EMERGING EVIDENCE FOR IMAGE-BASED BRACHYTHERAPY IN CERVICAL CANCER

10:35 - 11:35 • Room 112

CHAIR: *R. Pötter (Austria)*

CHAIR: *P. Eifel (USA)*

10:35 > Global perspective on gynecologic brachytherapy: challenges and developments SPEAKER: <i>A. Viswanathan (USA)</i>	106
10:55 > Multicenter studies with image guided brachytherapy in cervical cancer SPEAKER: <i>J.C. Lindegaard (Denmark)</i>	107
11:15 > Upcoming ICRU/GEC ESTRO recommendations for brachytherapy in cancer of the cervix (1) SPEAKER: <i>R. Pötter (Austria)</i>	108
11:25 > Upcoming ICRU/GEC ESTRO recommendations for brachytherapy in cancer of the cervix (2) SPEAKER: <i>C. Kirisits (Austria)</i>	109

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CHAIR: <i>Å. Carlsson Tedgren (Sweden)</i>	
CHAIR: <i>R. Fulkerson (USA)</i>	
10:35 > Functional MRI guided HDR prostate brachytherapy tumour boost: a feasibility study <i>J. Mason (United Kingdom), B. Al-Qaisieh, P. Bownes, D. Wilson, D.L. Buckley, D. Thwaites, B. Carey, A. Henry</i>	OC-110
10:45 > Improved applicator visualisation for MR-guided brachytherapy of cervix <i>G.P. Liney (United Kingdom), C.J. Horsfield, T.J. Murray, A.W. Beavis</i>	OC-111
10:55 > Does inter-fraction catheter motion affect HR-CTV coverage in gynecologic interstitial brachytherapy? <i>A. Damato (USA), R. Cormack, A. Viswanathan</i>	OC-112
11:05 > Dynamic Modulated BrachyTherapy (DMBT): concept, design, and simulations <i>W. Song (USA), M. Webster, D. Han, J. Einck, D. Scanderbeg, T. Vuong, S. Devic</i>	OC-113
11:15 > Robot-guided delivery of brachytherapy needles along non-parallel paths to avoid penile bulb puncture <i>J.A.M. Cunha (USA), A. Garg, T. Siau, N. Zhang, Y. Zuo, K. Goldberg, D. Stoianovici, M. Roach III, J. Pouliot</i>	OC-114
11:25 > Critical analysis of FMEA implementation for brachytherapy at two institutions <i>D. Scanderbeg (USA), S. Richardson, T. Pawlicki</i>	OC-115

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PHYSICS 3: THE ADVANTAGES AND CRITICALITIES OF NEW DOSE CALCULATION ALGORITHMS		
11:40 - 12:40 • Room 112		
CHAIR: <i>J. Perez-Calatayud (Spain)</i>		
CHAIR: <i>F. Verhaegen (The Netherlands)</i>		
11:40	> Model-based dose calculation techniques in brachytherapy SPEAKER: <i>L. Beaulieu (Canada)</i>	116
12:00	> Is the future of brachytherapy model-based? SPEAKER: <i>P. Papagiannis (Greece)</i>	117
12:20	> The advantages and criticalities of new dose calculation algorithms: when prescription doses should change? SPEAKER: <i>J. Guinot (Spain)</i>	118
POSTER DISCUSSION SESSION 1		
11:40 - 12:40 • Room 111		
CHAIR: <i>B. Pieters (The Netherlands)</i>		
CHAIR: <i>G. Bucci (Australia)</i>		
11:40	> Real-time source position verification for MR-guided single fraction HDR prostate brachytherapy. <i>M.A. Moerland (The Netherlands), H. de Leeuw, M. van Vulpen, C.J.G. Bakker, P.R. Seevinck</i>	PD-119
11:45	> Fiducial markers in combined EBRT-LDR therapy of prostate cancer: influence on LDR dose <i>G. Landry (The Netherlands), B. Reniers, L. Lutgens, L. Murrer, H. Afsharpour, D. de Haas-Kock, P. Visser, F. van Gils, F. Verhaegen</i>	PD-120
11:50	> Comprehensive dosimetric evaluation of a small strut-based APBI device: a retrospective single-institution study <i>S. Morcovescu (USA), J.F.M. Morton, K. Perry</i>	PD-121

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11:55	> Statin use not associated with improved outcomes in patients treated with brachytherapy for prostate cancer <i>J. Cuaron (USA), X. Pei, G. Cohen, B. Cox, Y. Yamada, M. Zelefsky, M. Kollmeier</i>	PD-122
12:00	> Decline in acute urinary toxicity: a long term study in 2011 patients with prostate brachytherapy <i>E.K. Chan (Canada), M. Keyes, T. Pickles, V. Lapointe, I. Spadinger, M. McKenzie, W.J. Morris</i>	PD-123
12:05	> Can PTV-EVAL be used as surrogate for normal breast tissue in the determination of V150 and V200? <i>E. Bloom (USA), T. Whitsell, S. Kirsner, C. Nelson, B. Mason, M. Ballo, K. Gifford</i>	PD-124
12:10	> Irradiation of localized squamous cell carcinoma of the nasal vestibule <i>B.G.L. Vanneste (The Netherlands), M. Lopez-Yurda, I.B. Tan, A.J.M. Balm, G.R. Borst, C.R.N. Rasch</i>	PD-125
12:15	> Potential benefit of MRI-guided brachytherapy for esophageal cancer <i>I.M. Lips (The Netherlands), F.M. Lever, O. Reerink, M. van Vulpen, M.A. Moerland</i>	PD-126
12:20	> Vaginal brachytherapy for intermediate risk endometrial carcinoma from single institution <i>A. Jhingran (USA), A. Klopp, P. Allen, P. Soliman, C. Levenback, J. Brown, P. Ramirez, P. Eifel</i>	PD-127
12:25	> Dose contribution to involved pelvic nodes with 3D brachytherapy for cervix cancer; comparison of two cancer centers <i>W. van den Bos (The Netherlands), L. Velema, S. Beriwal, A.A.C. de Leeuw, I.M. Jürgenliemk-Schulz</i>	PD-128

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14:00 - 15:00 • Room 112		
CHAIR: A. Poitevin (Mexico)		
CHAIR: C. Creutzberg (The Netherlands)		
14:00	> Improving individualized cancer care with a nomogram following surgery SPEAKER: K. Alektiar (USA)	129
14:30	> Vaginal brachytherapy should be the standard adjuvant treatment SPEAKER: C. Creutzberg (The Netherlands)	130

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BREAST 2**

14:00 - 15:00 • Room 111

CHAIR: D. Arthur (USA)

CHAIR: C. Hennequin (France)

14:00	> Breast cancer: external beam radiotherapy and interstitial boost application - an analysis of 1065 patients <i>J. Hammer (Austria), C. Track, K.J. Spiegl, H.D. Thames, D.H. Seewald, W. Labeck, E. Putz, E. Brütigam</i>	OC-131
14:10	> Excellent cosmesis after APBI: does dose to the dermal volume provide a better predictive constraint than skin Dmax? <i>R. Vera (USA), D. Todor, N. Bennion, N. Mukhopadyay, D.W. Arthur</i>	OC-132
14:20	> Perioperative high dose rate interstitial brachytherapy boost for patients with early breast cancer <i>D.N. Sharma (India), S.V.S. Deo, G.K. Rath, N.K. Shukla, R. Madan, S. Sharma, P.K. Julka</i>	OC-133
14:30	> Comparison of dose gradient within the PTV _{eval} as a function of optimization method and applicator used in APBI <i>I.R. Marshall (USA), S. Rahnema, E.G. Aguero, N.C. Brackett</i>	OC-134

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14:40	> *** Best Junior presentation *** Does oncoplastic breast conserving surgery contraindicate partial breast multicatheter brachytherapy (APBI)? <i>A. Roth (Germany), D. Kauer-Dorner, A. Resch, P. Niehoff, C. Melchert, D. Berger, G. Kovács</i>	OC-135
14:50	> Update of multi-center clinical data with non-invasive image-guided breast brachytherapy for tumor bed boost <i>S. Hamid (USA), D. Arthur, S. Sha, S. Cavanaugh, R. Benda, B. Prestidge, S. Ackerman, R. Kuske, C. Quiet, A. Kuruvilla, D. Wazer</i>	OC-136

**PANEL SESSION: 2
REPEAT BREAST CONSERVATION WITH BRACHYTHERAPY**

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CHAIR: R. Kuske (USA)

CHAIR: C. Polgár (Hungary)

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15:05 - 16:05 • Room 111

CHAIR: A. Rijnders (Belgium)

CHAIR: R. Slobada (Canada)

15:05	> A fast and accurate GPU-based primary+scatter algorithm for LDR-brachytherapy <i>A. Bourque (Canada), P. Després, L. Beaulieu</i>	OC-139
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15:15	> Influence of high atomic number elements in human tissue in dosimetry for low energy photon brachytherapy <i>S.A. White (The Netherlands), G. Landry, F. Van Gils, F.A. Verhaegen, B. Reniers</i>	OC-140
15:25	> Quantifying the inter-source attenuation in a dual-source HDR/PDR afterloader treatment unit <i>M. Plamondon (Canada), L. Beaulieu</i>	OC-141
15:35	> Dosimetry for HDR head and neck brachytherapy patients using a grid-based Boltzmann solver <i>F.A. Siebert (Germany), S. Wolf, G. Kovacs</i>	OC-142
15:45	> Comparison of different fractionation schedules in HDR brachytherapy as monotherapy for low-risk prostate cancer <i>P. Mavroidis (Sweden), N. Milickovic, N. Tselis, Z. Katsilieri, V. Kefala, N. Zamboglou, D. Baltas</i>	OC-143
15:55	> Dosimetric and radiobiological evaluation of manually and inversely optimized brachytherapy treatment planning <i>T. Palmqvist (Sweden), A.D. Wanderås, A.B.L. Marthinsen, M. Sundset, I. Langdal, S. Danielsen, I. Toma-Dasu</i>	OC-144

SYMPOSIUM

ONE HUNDRED YEARS OF PROSTATE BRACHYTHERAPY

16:10 - 17:10 • Room 112

16:10	> Introduction <i>J. Crook (Canada)</i>	
16:20	> One hundred years of prostate brachytherapy SPEAKER: <i>J. Aronowitz (USA)</i>	146



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 - > Outcome and toxicity after salvage prostatectomy, cryosurgery and brachytherapy for prostate cancer recurrences
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 - > Long term results of HDR brachytherapy in men older than 75 with localized carcinoma of the prostate
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| > Seed migration in prostate brachytherapy depends on experience and technique
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| > Focal therapy for prostate cancer recurrences: feasibility, toxicity and quality of life of I-125 focal salvage
<i>M. van Vulpen (The Netherlands), M. Peters, M.R. Moman, U.A. van der Heide, J.J. Battermann, S. Franken, M. van Deursen, M.A. Moerland</i> | PO-165 |
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| > Current risk classification for prostate cancer does not accurately predict survival after I-125 brachytherapy
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| > Iodine-125 (I-125) low dose rate (LDR) brachytherapy for higher risk (HR) prostate cancer
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| > Prostate cancer boost using HDR brachytherapy: learning curve analysis after 103 consecutive patients
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| > Prostate cancer boost using HDR brachytherapy: early toxicity analysis of 3 different fractionation schemes
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