

ESTRO 2023

Scientific Programme

12-16 May 2023

Vienna, Austria

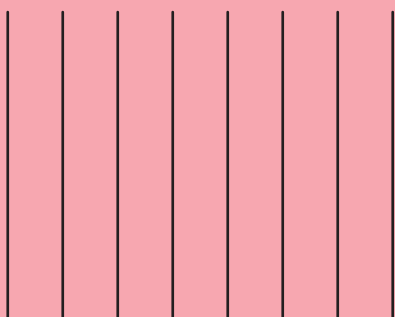
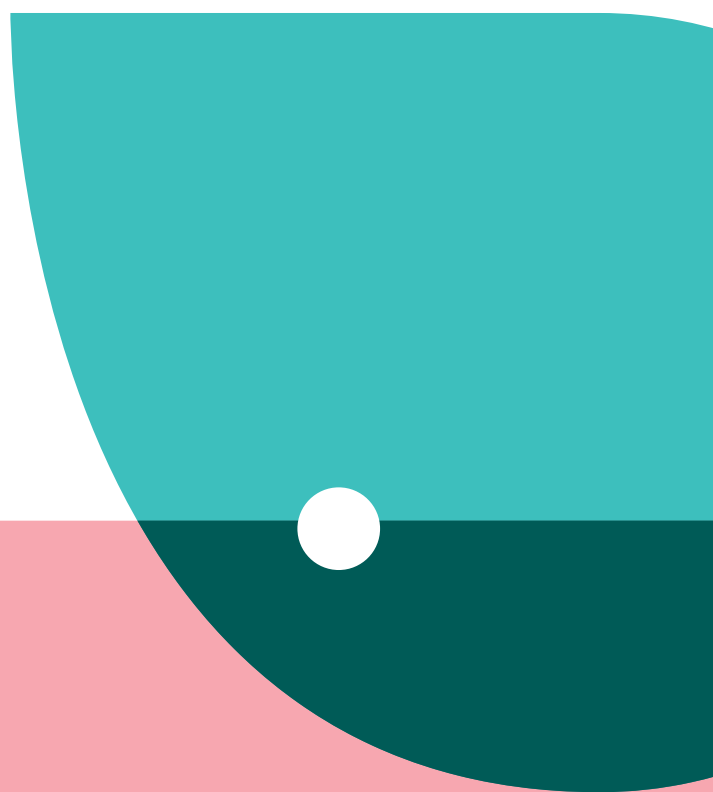
ANNUAL
ESTRO
CONGRESS

**From
Innovation
to Action**

    #ESTRO2023

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Saturday
13 May 2023



*Track: Interdisciplinary***Teaching Lecture: Health services research for trialists**

Saturday, 13 May 2023 08:00 - 08:40

Schubert

Chair: Ajay Aggarwal

-

08:00 Health services research for trialists
K. Spencer (United Kingdom)

SP - 0001

*Track: Radiobiology***Teaching Lecture: Radiation-induced tumour cell migration - Why does it matter and what can we do about it?**

Saturday, 13 May 2023 08:00 - 08:40

Lehar 4

Chair: Laure Marignol

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08:00 Radiation-induced tumour cell migration - Why does it matter and what can we do about it?
J. Birch (United Kingdom)

SP - 0002

*Track: Clinical***Teaching Lecture: Total neoadjuvant therapy in rectal cancer: When, why, how**

Saturday, 13 May 2023 08:00 - 08:40

Hall A

Chair: Maria Antonietta Gambacorta

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08:00 Total neoadjuvant therapy in rectal cancer: When, why, how
C. Marijnen (The Netherlands)

SP - 0003

*Track: Clinical***Teaching Lecture: Role of PET/CT for treatment planning optimisation in salvage prostate radiotherapy**

Saturday, 13 May 2023 08:00 - 08:40

Plenary Hall

Chair: Stephanie Kroeze

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08:00 Role of PET/CT for treatment planning optimisation in salvage prostate radiotherapy
S. Supiot (France)

SP - 0004

*Track: Physics***Teaching Lecture: Survey results and systematic review of the dosimetry information in papers on SBRT clinical trials**

Saturday, 13 May 2023 08:00 - 08:40

Strauss 1

Chair: Patricia Diez

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08:00 Pulmonary SBRT technical Practice: Results of the 2022 ESTRO survey

SP - 0005

A. Scaggion (Italy), A. Carver, K. Karlsson, E. Dalqvist, D. Jurado Bruggeman, F.R. Giglioli, S. Warren, V. Staykova, A. Jenko, A. Swinnen, O. Blank, N. Jornet, P. Pietro

08:20 Recommendation on the technical and dosimetric data to be included in stereotactic body radiation therapy clinical trial publications based on a systematic review

SP - 0006

M. Josipovic (Denmark), N. Hardcastle, E. Clementel, M. Gober, L. Wilke, D. Eaton, V. Hernandez, J. Saez, G. Smyth, L. Vieilleveigne, N. Jornet, P. Mancosu

*Track: Physics***Teaching Lecture: What's new in deep-learning?**

Saturday, 13 May 2023 08:00 - 08:40

Lehar 1-3

Chair: Charlotte Robert

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08:00 What's new in deep-learning?

SP - 0007

M. Vakalopoulou (France)*Track: RTT***Teaching Lecture: Patient comfort during radiotherapy**

Saturday, 13 May 2023 08:00 - 08:40

Strauss 2

Chair: Amanda Webster

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08:00 Patient comfort during radiotherapy
TBC

SP - 0008

*Track: Brachytherapy***Teaching Lecture: The role of brachytherapy in the treatment of primary and recurrent vulvar cancer**

Saturday, 13 May 2023 08:00 - 08:40

Strauss 3

Chair: Ina Jürgenliemk-Schulz

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08:00 The role of brachytherapy in the treatment of primary and recurrent vulvar cancer
C. Chargari (France)

SP - 0009

08:20 The role of brachytherapy in the treatment of primary and recurrent vulvar cancer
U. Mahantshetty (India)

SP - 0010

*Track: Interdisciplinary***Joint Symposium: ESTRO-ASTRO: Personalised radiotherapy in 2023 - What can we implement now?**

Saturday, 13 May 2023 08:45 - 10:00

Schubert

Chair: Matthias Guckenberger

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Chair: Laura Dawson

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08:45 Combining personalised systemic therapy and radiotherapy
S. Supiot (France)

SP - 0011

09:03 Genomics-driven patient selection for radiotherapy
R. Bristow (United Kingdom)

SP - 0012

09:21 Physical personalisation of radiotherapy
K. Brock (USA)

SP - 0013

09:39 Frontiers in AI: Clinical impact beyond automation
C. Grassberger (USA)

SP - 0014

*Track: Radiobiology***Symposium: Lipids and metabolomics in radiation response - An emerging paradigm in radioresistant cancers?**

Saturday, 13 May 2023 08:45 - 10:00

Lehar 4

Chair: Brita Singers Sørensen

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Co-Chair: TBC

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08:45 Deciphering the role of cholesterol in the radiation response of glioblastoma SP - 0015

N. Gomez-Roman (United Kingdom)

09:03 Dopamine receptor antagonists, radiation, and cholesterol biosynthesis in mouse models of glioblastoma SP - 0016

F. Pajonk (USA)

09:21 Statin-induced metabolic reprogramming in head & neck cancer: A biomarker for targeting monocarboxylate transporters SP - 0017

A. Chadwick (United Kingdom)

09:39 Radiation-induced metabolic alterations associated with tumour aggressiveness and poor outcomes in glioblastoma SP - 0018

T. Burns (USA)*Track: Clinical***Debate: This house believes that non-metastatic pancreatic cancers should be treated with SBRT**

Saturday, 13 May 2023 08:45 - 10:00

Hall A

Chair: Karin Haustermans

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Chair: Florence Huguet

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08:45 Introduction & voting SP - 0019

08:48 For the motion SP - 0020

K. Goodman (USA)

09:03 Against the motion SP - 0021

E. Vestejne (The Netherlands)

09:18 For the motion - rebuttal SP - 0022

M. Loi (Italy)

09:33 Against the motion - rebuttal SP - 0023

M. Hawkins (United Kingdom)

09:48 Discussion & voting SP - 0024

*Track: Clinical***Symposium: Targeting acute and late toxicity in head & neck radiotherapy**

Saturday, 13 May 2023 08:45 - 10:00

Plenary Hall

Co-Chair: Morten Horsholt Kristensen

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Chair: Joanna Kazmierska

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08:45 Biomarkers of radiation-induced side effects in head & neck radiotherapy SP - 0025

L. Marignol (Ireland)

09:03	Individual toxicity risk profiling - What matters the most? <i>H. Langendijk (The Netherlands)</i>	SP - 0026
09:21	Novel drugs and radiotherapy: New side effects? <i>M. Krause (Germany)</i>	SP - 0027
09:39	Limiting treatment toxicity: Precision of delivery, de-escalation, what else? <i>A. Al-Mamgani (The Netherlands)</i>	SP - 0028

*Track: Physics***Joint Symposium: ESTRO-EFOMP: International/European initiatives in medical physics**

Saturday, 13 May 2023 08:45 - 10:00

Strauss 1

	Chair: Ben Heijmen	-
	Chair: Christian Rønn Hansen	-
08:45	EFOMP clinical trials update <i>N.L. Abbott (United Kingdom), A. Appelt, S. Chauvie, C. DeJean, A. Gasnier, E. Koutsouveli, A. Lisbona, M. Luzzara, L. Marcu, C. Melidis, L.N. Mazzoni, J. O' Doherty, R. Wientje, C. Rønn Hansen</i>	SP - 0029
09:03	SAMIRA Study on the implementation of Council Directive 2013/59/Euratom requirements for medical equipment with respect to monitoring and control of patient's radiation exposures <i>A. Lopez Medina (Spain), M. Nicolas, D. Visvikis, J. Andersson</i>	SP - 0030
09:21	Understanding late effects of radiation exposure in paediatrics: The HARMONIC and MEDIRAD projects <i>I. Thierry-Chef (Spain), B. Timmermann, N. Journy, M. Bernier, R. McNally, J. Dabin, L. Brualla, S. Haghdooost, A. Sarukan, E. Cardis, M. Hierath, G. Frija, H. Consortium, M. Consortium</i>	SP - 0031
09:39	The EURAMED Rocc-n-Roll project along the roadmap to harmonise medical radiation research <i>C. Hoeschen (Germany)</i>	SP - 0032

*Track: Physics***Symposium: Full speed towards automatic radiotherapy - How to commission and implement these new tools**

Saturday, 13 May 2023 08:45 - 10:00

Lehar 1-3

	Chair: Coen Hurkmans	-
	Co-Chair: TBC	-
08:45	Overview of the main families of available solutions <i>S. Pallotta (Italy)</i>	SP - 0033
09:00	Deep learning for segmentation and treatment planning for breast cancer patients <i>C. Hurkmans (The Netherlands)</i>	SP - 0034
09:15	From atlas-based knowledge to ML-based planning solutions <i>C. Khamphan (France)</i>	SP - 0035
09:30	Deep learning for prostate treatment planning <i>E. Gershkevitsh (Estonia)</i>	SP - 0036
09:45	Clinical evaluation of autonomous, unsupervised planning integrated in MR-guided radiotherapy for prostate cancer	SP - 0037

D. Zips (Germany), L. Künzel, M. Nachbar, M. Hagmüller, C. Gani, S. Böke, D. Wegener, F. Paulsen, D. Thorwarth

Track: RTT

Symposium: Immobilisation and verification

Saturday, 13 May 2023 08:45 - 10:00

Strauss 2

Chair: Sophie Boisbouvier

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Co-Chair: James Barber

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08:45 Role of music and ambient light and their impact on the patients immobilisation and verification
P. Scherer (Austria)

SP - 0038

09:10 Breast radiotherapy immobilisation and verification
S. Wickers (United Kingdom)

SP - 0039

09:35 Particle therapy immobilisation and verification
J. Thiele (Germany)

SP - 0040

Track: Brachytherapy

Debate: This house believes that centralisation will have a positive influence on the administration of brachytherapy procedures

Saturday, 13 May 2023 08:45 - 10:00

Strauss 3

Chair: Carl Salembier

-

Chair: Christian Kirisits

-

08:45 Introduction & voting

SP - 0041

08:48 For the motion
A. Henry (United Kingdom)

SP - 0042

09:03 Against the motion
J-M. Hannoun-Levi (France)

SP - 0043

09:18 For the motion - rebuttal
A. Henry (United Kingdom)

SP - 0044

09:33 Against the motion - rebuttal
J-M. Hannoun-Levi (France)

SP - 0045

09:48 Discussion & voting

SP - 0046

Track: Clinical

Mini-Oral: Gynaecology

Saturday, 13 May 2023 09:00 - 10:00

Stolz 1

Malnutrition is associated with poor survival in cervical cancer patients treated with radiotherapy

MO - 0047

J. Laan (The Netherlands), L. van Lonkhuijzen, K. Hinnen, B. Pieters, I. Dekker, L. Stalpers, H. Westerveld

Primary Radiotherapy in Cisplatin-Intolerant Advanced Cervical Cancer Patients: A Meta-Analysis

MO - 0048

W. Bacorro (Philippines), K. Baldivia, K.K. Yu, J. Mariano, G. Gonzalez, T. Sy Ortin

SBRT in ovary cancer patients progressing within PARP-Inhibitor maintenance regimen: Epimetheo study

MO - 0049

G. Macchia (Italy), M. Campitelli, D. Russo, D. Pezzulla, S. Lucci, A. Nardangeli, A. Di Stefano, G. Ronzino, C. Federico, A. Fagotti, S.A. Russo, V. Salutari, M.A. Gambacorta, G. Scambia, G. Ferrandina

Feasibility of the determination of the molecular-integrated risk profile in the PORTEC-4a trial MO - 0050

A. van den Heerik (The Netherlands), N. Horeweg, L. Lutgens, D. Haverkort, S. Kommoss, A. Staebler, F. Koppe, M. Nowee, H. Westerveld, M. de Jong, D. Cibula, P. Dunder, J. Cnossen, J.W. Mens, C. Chargari, C. Genestie, S. Bijmolt, C. Gillham, C. O'Riain, T. Stam, I. Jurgenliemk-Schulz, M. Hamann, V. Smit, T. Bosse, C. Creutzberg

SBRT in oligometastatic uterine cancer: a large, multicenter, retrospective study. MO - 0051

G. Macchia (Italy), D. Pezzulla, M. Campitelli, C. Laliscia, A. Fodor, P. Bonome, L. Draghini, E. Ippolito, V. De Sanctis, M. Ferioli, F. Titone, V. Balcet, V. Di Cataldo, D. Russo, L. Vicenzi, S. Cossa, S. Lucci, F. Deodato, M.A. Gambacorta, G. Ferrandina

Vulvar Cancer Exclusive Radiotherapy (OLDLADY 1.1): AIRO GYN, MITO and MaNGO GROUPS Cooperation MO - 0052

L. Tagliaferri (Italy), V. Lancellotta, M. Ferioli, C. Casà, B. Pappalardi, C.T. Delli Curti, C. Laliscia, M. Boccardi, F. Tortoreto, G. Garganese, G. Ferrandina, M.A. Gambacorta, A.G. Morganti

Developing National Consensus Recommendations for Vulvar Cancer Radiotherapy Treatment. MO - 0053

P. Baird (United Kingdom), E. Dyke, M. Powell, A. Taylor, L. Hanna, U. McGivern, J. Summers, A. Gore, A. Cook, J. Forrest, A. Stewart

Quality of life results of the APROVE trial after proton beam therapy for gynecological cancer MO - 0054

E. Meixner (Germany), A. Wark, T. Forster, F. Weykamp, K. Lang, L. König, K. Lindel, J.T. Oelmann-Avendano, J. Krisam, A. Schneeweiss, M. Ellerbrock, T. Mielke, J. Hörner-Rieber, K. Herfarth, J. Debus, N. Arians

Track: Physics

Mini-Oral: TCP/NTCP modelling and prediction

Saturday, 13 May 2023 09:00 - 10:00

Stolz 2

Prediction of radiation-induced taste loss with taste bud bearing tongue mucosa in HNC patients MO - 0055

H. Neh (The Netherlands), S.P. de Vette, H. Chu, N.M. Sijtsema, P.M. van Ooijen, R.J. Steenbakkers, J.A. Langendijk, L.V. van Dijk

NTCP Models for Late Tissue Fibrosis Following Breast RT are Validated in a Large Prospective Cohort MO - 0056

A. Cicchetti (Italy), E. Gioscio, M.C. De Santis, P. Seibold, D. Azria, D. De Ruysscher, A.M. Dunning, R. Elliot, A. Seoane, M. Lambrecht, E. Sperk, B. Rosenstein, C. Talbot, A. Vega, L. Veldeman, A. Webb, T. Rattay, C. West, T. Rancati

Predicting survival outcomes for patients with colorectal cancer by explainable pathology predictors MO - 0057

S. Chen (The Netherlands), L. Wee, A. Dekker, J. Wang

PTEN loss/Fibroblast infiltration subtype and its association with CT-radiomics in prostate cancer MO - 0058

R. Murphy (United Kingdom), L. Huang, S. Winter, N. Payan, C. McGarry, S. Jain, S. McDade, M. LaBonte Wilson, E. Allott

- Prediction of pathological response to chemo-radiotherapy in rectal cancer using federated learning MO - 0059
I. Bermejo (The Netherlands), P. Mateus, M. Savino, B. Osong, Y. Willems, N.D. Capocchiano, M. Berbée, M.A. Gambacorta, A. Damiani, V. Valentini, A. Dekker
- From voxel-level to patient-level NTCP: an enhanced EUD concept to incorporate tissue heterogeneity MO - 0060
E. Bahn (Germany), J. Bauer, S. Harrabi, K. Herfarth, J. Debus, M. Alber
- Independent external validation of four NTCP models for head and neck cancer patients MO - 0061
F. Emiro (Italy), C. Bonfiglio, M.G. Vincini, S. Vignati, S. Gandini, M. Zaffaroni, S. Volpe, G. Marvaso, D. Genovesi, G.L. Gravina, D. Alterio, B.A. Jerezek-Fossa
- External validation of radiomics and deep learning models for recurrence-free survival prediction MO - 0062
Y. Li (The Netherlands), B. Ma, H. Chu, J. Albertus Langendijk, L. Vania van Dijk, N. Maria Sijtsema

Track: Clinical

Poster Discussion: Palliative radiotherapy & SBRT

Saturday, 13 May 2023 09:00 - 10:00

Business Suite 1-2

- Final results of a randomized trial on accelerated radiotherapy in bone metastases (NCT03503682) PD - 0063
A. Zamagni (Italy), G. Siepe, S. Bisello, E. Scirocco, F. Candoli, F. Deodato, G. Macchia, F. Fiorica, E. Farina, S. Cilla, I. Ammendolia, L. Caravatta, C. Malizia, S. Cammelli, F. Cellini, A.G. Morganti
- Metastases-directed SRT combined with systemic therapy: 2y results of the TOaSTT real-world database PD - 0064
S. Kroeze (Switzerland), J. Schaule, M. Spaas, K.H. Kahl, J.J. Verhoeff, F.L. Schneiders, O. Blanck, F. Lohaus, S. Rogers, D. Kaul, S. Benavente, S.E. Combs, G. Skazikis, K. Baumann, I. Popp, F. Koppe, H. Geinitz, K.E. de Jaeger, S. Siva, S. Stera, A. Wittig-Sauerwein, V. Lewitzki, F. Eckert, M.M. Schymalla, M. Guckenberger
- Short course palliative radiotherapy in advanced solid tumors: a pooled analysis (SHARON PROJECT) PD - 0065
C.M. Donati (Italy), G. Macchia, C. Malizia, G. Siepe, A. Zamagni, F. Cellini, M. Buwenge, S. Cilla, S. Cammelli, S. Rizzo, L. Caravatta, T. Wondemagegnhu, A.F.M.K. Uddin, B.T. Deressa, M.A. Sumon, L. Strigari, E. Lodi Rizzini, A. Bazzocchi, A.G. Morganti, F. Deodato, E. Farina
- Short course radiotherapy for advanced head and neck cancer: a phase 2 study PD - 0066
N. West (United Kingdom), M. Zarroug, R. Patil, J. Kovarik, C. Kelly, M. Jackson, S. Iqbal
- How our patients are. Patient-reported quality of life. PD - 0067
C. Garcia Torres (Spain), P.M. Samper Ots, S. Payano Hernández, J. Zapatero Ortuño, E. Amaya Escobar, M.D. de las Peñas Cabrera, J. Rodríguez de la Peña, C. Chaves Pantoja, M. Martín López, J. Gutierrez Loa
- Tumor control after MR-guided adaptive stereotactic radiotherapy for adrenal metastases PD - 0068
F. schneiders (The Netherlands), C. van Vliet, M.A. Palacios, B.J. Slotman, F.J. Lagerwaard, A.M. Bruynzeel, S. Senan
- Anatomic pattern of recurrence after single or multifraction SBRT for lymph nodal lesions. PD - 0069
M. Ferro (Italy), G. Macchia, D. Pezzulla, S. Cilla, C. Romano, M. Boccardi, P. Bonome, V. Picardi, S. Cammelli, M. Buwenge, A.G. Morganti, F. Deodato

- Repeat stereotactic body radiotherapy for oligometastatic disease PD - 0070
S. Adilovic (Switzerland), J. Willmann, E. Vlaskou Badra, S.M. Christ, M. Ahmadsei, S. Tanadini-Lang, M. Mayinger, M. Guckenberger, N. Andratschke
- SBRT for spine oligometastases: a multicenter retrospective study on behalf of AIRO PD - 0071
F. Cuccia (Italy), E. Pastorello, C. Franzese, L. Belgioia, M. Bignardi, M. Federico, V. Figlia, N. Gaj Levra, R. Lucchini, C. Satragno, A. Ferrero, M. La Vecchia, I. Fazio, G. Ferrera, F. Alongi, M. Scorsetti
- Reluctance to escalate drug therapy in cancer patients increases with the class of analgesics PD - 0072
C.M. Donati (Italy), E. Nardi, A. Zamagni, G. Siepe, F. Cellini, A. Di Rito, M. Portaluri, C. De Tommaso, A. Santacaterina, C. Tamburella, R. Di Franco, S. Parisi, S. Cossa, V. Fusco, A. Bianculli, P. Ziccarelli, L. Ziccarelli, D. Genovesi, L. Caravatta, F. Deodato, G. Macchia, F. Fiorica, G. Napoli, M. Buwenge, R. Rossi, S. Cammelli, M. Maltoni, A.G. Morganti
- Overcoming the barriers to the use of palliative radiotherapy in patients with bone metastasis PD - 0073
C.M. Donati (Italy), G. Siepe, A. Zamagni, E. Bezzi, F. Mammini, I. Ammendolia, A. Arcelli, E. Scirocco, C. Malizia, F. Cellini, A.G. Morganti, S. Cammelli
- Financial toxicity in cancer patients treated with radiotherapy – a yDEGRO cross-sectional study PD - 0074
A. Fabian (Germany), A. Rühle, M. Trommer, S. Wegen, J. Becker, G. Wurschi, S. Boeke, M. Sonnhoff, C.A. Fink, L. Käsmann, M. Schneider, E. Bockelmann, M. Treppner, D. Krug, N.H. Nicolay

Track: Interdisciplinary

Poster Discussion: Health services research; Education and training

Saturday, 13 May 2023 09:00 - 10:00

Business Suite 3-4

- How much time do we spend for a treatment? Analysis in a public radiation oncology department PD - 0075
E. Gomis Selles (Spain), R. de Haro Piedra, J.J. Gordito Soler, I. Paguey Garrido, P. Romero Pareja, J. Pachón Ibáñez, D.M. Muñoz Carmona
- radiotherapy treatment interruptions management: an italian survey PD - 0076
F. Deodato (Italy), A. Fiorentino, G. Macchia, S. Manfrida, N. Dinapoli, M.F. Osti, G. Sanguineti, E. Russi
- Electronic Patient Reported Outcomes in follow-up after palliative radiotherapy: a feasibility study PD - 0077
E. Oldenburger (Belgium), S. Isebaert, A. Coolbrandt, C. Van Audenhove, K. Haustermans
- Electronic Patient Reported Outcomes in follow-up after PRT: a national survey study PD - 0078
E. Oldenburger (Belgium), S. Isebaert, A. Coolbrandt, C. Van Audenhove, K. Haustermans
- Pelvic Radiation Disease – introducing a unique Best Practice Pathway PD - 0079
L. Durrant (United Kingdom), E. Hallam, B. Sacks, S. Faithfull, L. Smith
- proton beam therapy in the Middle East: modelling demand and health economic cost PD - 0080
M. Akash (Jordan), A. Salem
- Research culture in Australian and New Zealand radiation oncology: fact or fantasy? PD - 0081
D. Roos (Australia)

	Interest and commitment of medical physicists to scientific activities: a national survey <i>R. Castriconi (Italy), L. Placidi, M. Avanzo, R. Cirio, P. Gallo, A. Mazzilli, A. Milano, T. Rancati, P. Russo, C. Garibaldi</i>	PD - 0082
	Analysis of the cost-effectiveness of proton beam therapy for unresectable pancreatic cancer <i>Y. Hiroshima (Japan), M. Kondo, T. Sawada, S. Hoshi, R. Okubo, T. Iizumi, H. Numajiri, T. Okumura, H. Sakurai</i>	PD - 0083
	Are you planning to be a radiation oncologist? A survey by the Young Group of AIRO <i>V. Nardone (Italy), L. Boldrini, V. Salvestrini, C. Greco, G.M. Petrianni, I. Desideri, F. De Felice</i>	PD - 0084
	Implementation of online workshops on IGABT in LACC: experience of BrachyAcademy <i>E. Dizendorf (The Netherlands), A. Sturdza, L. Tagliaferri, L. Russo, N. Nesvacil, C. Kirisits</i>	PD - 0085
09:00	Professional quality of life of Tunisian in training resident in oncology radiotherapy <i>N. Fourati (Tunisia), M. Frikha, S. Zouari, O. Nouri, W. Siala, W. Mnejja, J. Daoud</i>	PD - 0086

Track: Interdisciplinary

Proffered Papers: Biomarkers and prediction models

Saturday, 13 May 2023 10:30 - 11:30

Schubert

10:30	A complete bilateral model of lymphatic progression in HNSCC trained with multicentric patient data <i>R. Ludwig (Switzerland), J. Hoffmann, B. Pouymayou, L. Franceschetti, L. Bauwens, V. Grégoire, P. Balermipas, J. Unkelbach</i>	OC - 0087
10:40	Deep learning NTCP model for late dysphagia based on 3D dose, CT and segmentations <i>S.P. de Vette (The Netherlands), H. Chu, H. Neh, R.J. Steenbakkers, P.M. van Ooijen, C.D. Fuller, J.A. Langendijk, N.M. Sijtsma, L.V. van Dijk</i>	OC - 0088
10:50	Radiomics models from chest CT scan to predict brain metastases in radically treated stage III NSCLC <i>H. Zeng (The Netherlands), F. Tohidinezhad, D. De Ruysscher, J. Degens, V. van Kampen-van den Boogaart, C. Pitz, L. Hendriks, A. Traverso</i>	OC - 0089
11:00	T-lymphocytes and hypoxia predicts survival after brachytherapy in locally advanced cervical cancer <i>T. Tramm (Denmark), J. Alsner, P.S. Nielsen, J.B. Georgsen, J. Overgaard, J.C. Lindegaard</i>	OC - 0090
11:10	An immune gene expression risk score for distant metastases after radiotherapy for cervical cancer <i>J. Lukovic (Canada), M. Pintilie, K. Han, J. Bruce, R. Quevedo, T. Pugh, C.S. Fjeldbo, H. Lyng, M. Milosevic</i>	OC - 0091
11:20	Patient Selection Using Genetic Alterations Associated with Radiosensitivity In Follicular Lymphoma <i>N.A. Wijetunga (USA), E. Lebow, J. Lee, B. Fregonese, K. Tringale, H. Hubbeling, R. Sarkar, J. Ma, V. Seshan, E. Joffe, A. Dogan, A. Chan, H. Wendel, C. Hajj, B. Imber, J. Yahalom</i>	OC - 0092

*Track: Radiobiology***Proffered Papers: Microenvironment**

Saturday, 13 May 2023 10:30 - 11:30

Lehar 4

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|-------|---|-----------|
| 10:30 | Quantitative imaging of hypoxic and immunologically cold CAIX+ areas in syngeneic mouse models | OC - 0093 |
| | <i>D. Boreel (The Netherlands), P. Span, H. Peters, A. Kip, M. Boswinkel, G. Adema, S. Heskamp, J. Bussink</i> | |
| 10:40 | Radiobiological models for microvascular damage including functional impairment of capillary wall | OC - 0094 |
| | <i>L. Possenti (Italy), M. Magnoni, T. Giandini, V. Doldi, S. Bersini, C. Arrigoni, M.L. Costantino, N. Zaffaroni, M. Moretti, T. Rancati</i> | |
| 10:50 | Effects of X-ray Irradiation on Extracellular Vesicles Isolated from Head and Neck Cancer Cells | OC - 0095 |
| | <i>I.S. Juvkam (Norway), O. Zlygosteva, M. Sitarz, E. Malinen, N. Edin, H. Galtung, T. Sølund</i> | |
| 11:00 | Influence of hypoxia on RT response in HPV+ and HPV- head and neck cancer | OC - 0096 |
| | <i>M. Wegge (Belgium), R. Dok, S. Nuyts, L. Dubois</i> | |
| 11:10 | Ferroptosis induction synergizes with radiotherapy in hypoxic human colorectal cancer. | OC - 0097 |
| | <i>L. Kerkhove (Belgium), F. Geirnaert, A. Rifi, H. Vandenplas, K.L. Law, T. Gevaert, I. Dufait, M. De Ridder</i> | |
| 11:20 | Developing modulators of tumour hypoxia through inhibition of cellular oxygen consumption | OC - 0098 |
| | <i>N. Machado (United Kingdom), J. Holt-Martyn, G. Rodriguez-Berriguete, E. Traynor, R. Puliyadi, C. Schofield, G. Higgins</i> | |

*Track: Clinical***Proffered Papers: Upper GI**

Saturday, 13 May 2023 10:30 - 11:30

Plenary Hall

- | | | |
|-------|--|-----------|
| 10:30 | Quality of life after ablative 5-fraction radiation therapy from the phase II SMART pancreas trial | OC - 0099 |
| | <i>M. Chuong (USA), P. Parikh, D. Low, J. Kim, K. Mittauer, M. Bassetti, C. Glide-Hurst, A. Raldow, Y. Yang, L. Portelance, B. Zaki, H. Kim, J. Mancias, J. Ng, R. Pfeffer, A. Mueller, P. Kelly, L. Boldrini, M. Fuss, P. Lee</i> | |
| 10:40 | Short course radiation improves pain from pancreatic cancer: A prospective phase II study (NTR5143) | OC - 0100 |
| | <i>C.P. Tello Valverde (The Netherlands), G. Ebrahimi, J.W. Wilmink, M.A. Sprangers, M. Jacobs, A. Bruynzeel, M.G. Besselink, H. Crezee, G. van Tienhoven, E. Versteijne</i> | |
| 10:50 | First randomized evidence of the lymphocyte-sparing effect of proton beam therapy (NCT01512589) | OC - 0101 |
| | <i>X. Wang, P. van Rossum (USA), Y. Chu, B. Hobbs, C. Grassberger, T. Hong, Z. Liao, R. Mohan, S. Lin</i> | |
| 11:00 | Clinical evaluation of heart dose changes during proton therapy of esophageal cancer | OC - 0102 |
| | <i>R. Canters (The Netherlands), K. Van der Klugt, V. Taasti, J. Buijsen, F. Vereijken, T. Verstappen, K. Limpens, S. Hurkmans, M. Van den Bosch, F. Visser, G. Vilches-Freixas, M. Berbee</i> | |
| 11:10 | SCOPE2 PET: continuing CisCap v switch to CarPac in PET non-responders on dCRT for esophageal cancer | OC - 0103 |

S. Mukherjee (United Kingdom), C. Hurt, S. Gwynne, L. Nixon, S. Bridges, R. Adams, G. Radhakrishna, T. Maughan, M. Hunter, R. Kumar, R. Roy, C. Jones, C. Marshall, K. Bradley, D. Callaghan, S. Gollins, H. Sheikh, A. Bateman, S. Falk, B. Tranter, G.J. Lewis, E. Spezi, M. Hawkins, T. Crosby

11:20 A novel approach to assess preoperative toxicity in gastric cancer patients in the CRITICS trial OC - 0104

R. van Amelsfoort (The Netherlands), P. González, R. Simões, E. Jansen, A. Cats, N. van Grieken, K. Sikorska, E. Meershoek – Klein Kranenbarg, H. Putter, C. vd Velde, J. van Sandick, M. Verheij, I. Walraven

Track: Clinical

Proffered Papers: Head & neck

Saturday, 13 May 2023 10:30 - 11:30

Hall A

10:30 Incidence and survival after HPV+ and HPV- oropharynx cancer in Denmark 1986-2020 - A DAHANCA study OC - 0105

P. Lassen (Denmark), J. Alsner, C. Andrup Kristensen, E. Andersen, H. Primdahl, J. Johansen, M. Andersen, M. Farhadi, J. Grau Eriksen, M. Halgren Olsen, J. Overgaard

10:40 Prospective Trial of Personalized Fractionation in Low-risk HPV Positive Oropharyngeal Canceroph OC - 0106

J. Caudell (USA), M. Echevarria, G. Yang, Y. Kim, K. Kirtane, J. Kish, J. Muzaffar, C. Chung, H. Enderling

10:50 Target and failure pattern in SCC-HNCUP: a prospective phase-4 study from DAHANCA OC - 0107

S.B. Nielsen (Denmark), N.M. Lyhne, M. Andersen, J. Johansen, C. Godballe, H. Primdahl, E. Andersen, M. Farhadi, A. Gothelf, C.C. Plaschke, T. Kjærgaard, J. Overgaard

11:00 The influence of tumor volume on the risk of distant metastases in head and neck cancer OC - 0108

J. Kjems (Denmark), K.E. Håkansson, C.A. Kristensen, J.G. Eriksen, M.H. Kristensen, A.I.S. Holm, J. Overgaard, C.R. Hansen, R. Zukauskaitė, J. Johansen, I.R. Vogelius, J. Friborg

11:10 Functional dose to the parotid gland: a new regional based dose metric in NTCP models for xerostomia OC - 0109

M.I. van Rijn - Dekker (The Netherlands), P. van Luijk, E. Schuit, A. van der Schaaf, J.A. Langendijk, R.J. Steenbakkers

11:20 Head and neck adenoid cystic carcinoma treated with raster scanning carbon ion radiotherapy at CNAO OC - 0110

B. Vischioni (Italy), M. Bonora, S. Ronchi, R. Ingargiola, A.M. Camarda, S. Molinelli, S. Imperato, F. Fiorino, T. Rancati, M. Ciocca, E. Orlandi

Track: Physics

Proffered Papers: QA and auditing

Saturday, 13 May 2023 10:30 - 11:30

Strauss 1

10:30 Results of multi-centric 4DCT QA audit: evaluating the accuracy and consistency of 4D imaging OC - 0111

M. Burghellea (Belgium), J. Bakkali, M. Kyndt, A. Gulyban, J. Dhont, J. Szkitsak, E. Bogaert, N. Reynaert, D. van Gestel

10:40 Machine Learning and Lean Six Sigma to improve the plan quality and streamline the RT workflow OC - 0112

N. Lambri (Italy), M. Pelizzoli, S. Parabolicoli, A. Bresolin, D. Dei, P. Gallo, F. La Fauci, F. Lobefalo, L. Paganini, G. Reggiori, S. Tomatis, M. Scorsetti, P. Mancosu

10:50	Extending TRS-483 for small field dosimetry in MR-linacs <i>J. de Pooter (The Netherlands), L. de Prez, S. Woodings</i>	OC - 0113
11:00	Patient specific quality assurance for synthetic CT in MR-only radiotherapy of the abdomen <i>R. Dal Bello (Switzerland), M. Lapaeva, A. Agustina, P. Wallimann, M. Günther, E. Konukoglu, N. Andratschke, M. Guckenberger, S. Tanadini-Lang</i>	OC - 0114
11:10	Consensus guide on CT-based prediction of stopping-power ratio using a Hounsfield look-up table <i>V. Taasti (The Netherlands), N. Peters, A. Bolsi, C. Vallhagen Dahlgren, M. Ellerbrock, C. Gomà, J. Góra, P. Cambraia Lopes, I. Rinaldi, K. Salvo, I. Sojat Tarp, A. Vai, T. Bortfeld, A. Lomax, C. Richter, P. Wohlfahrt</i>	OC - 0115
11:20	Automated classification of pre-treatment QA results of VMAT plans with plan complexity metrics <i>M. Claessens (Belgium), G. De Kerf, V. Vanreusel, V. Hernandez, J. Saez, N. Jornet, D. Verellen</i>	OC - 0116

Track: Physics

Proffered Papers: Autosegmentation & automation for QA

Saturday, 13 May 2023 10:30 - 11:30

Lehar 1-3

10:30	A deterministic algorithm for patient-specific quality assurance in online adaptive proton therapy <i>T. Burlacu (The Netherlands), D. Lathouwers, Z. Perkó</i>	OC - 0117
10:40	First results on DAHANCA automatic segmentation algorithms of organs at risk <i>E.L. Lorenzen (Denmark), R. Zukauskaitė, M. Kyndt, J.G. Eriksen, N. Sarup, J. Johansen, C. Maare, H. Primdahl, Å. Bratland, C.A. Kristensen, M. Andersen, J. Overgaard, C. Brink, C. Rønn Hansen</i>	OC - 0118
10:50	Interactive deep-learning for tumour segmentation in head and neck cancer radiotherapy <i>Z. Wei (Denmark), J. Ren, J.G. Eriksen, S.S. Korreman, J.A. Nijkamp</i>	OC - 0119
11:00	Validation of a deep-learning segmentation model for HNC patients in various treatment positions <i>L. Chen (Austria), P. Platzer, C. Reschl, M. Schafasand, A. Nachankar, C.L. Hajdusich, P. Kuess, M. Stock, S. Habraken, A. Carlino</i>	OC - 0120
11:10	Impact of training dataset size and ensemble techniques on head and neck auto-segmentation <i>E. Henderson (United Kingdom), M. van Herk, E.M. Vasquez Osorio</i>	OC - 0121
11:30	Deep Learning Segmentation of Cardiac Substructures in Radiotherapy Planning <i>L. Nürnberg (The Netherlands), D. Bontempi, K. Verhoeven, H. Zeng, R. Canters, E. Hortal Quesada, F.R. Giglioli, U. Ricardi, M. Levis, D. De Ruysscher, A. Traverso</i>	OC - 0122

Track: RTT

Proffered Papers: Tumour-specific innovations

Saturday, 13 May 2023 10:30 - 11:30

Strauss 2

10:30	A SIOPe survey for paediatric CBCT protocols for image-guided radiotherapy <i>D. Østergaard (Denmark), A. Bryce-Atkinson, G. Whitfield, L.S.C. Davies, M. van Herk, M.C. Aznar, M. Vestmø Maraldo</i>	OC - 0123
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10:40	Effect of Body Weight Changes on Thecal Sac Dose in Spine SBRT <i>H. Truong (Australia), R. Poldy, G. McPherson, B. Nguyen, D. Hammill, B. Quah, F. Syed</i>	OC - 0124
10:50	Clinical evaluation of proton therapy of esophageal cancer using dose summation on weekly repeat CTs <i>K. van der Klugt (The Netherlands), R. Canters, V. Taasti, J. Buijsen, F. Vereijken, T. Verstappen, K. Limpens, S. Hurkmans, M. van den Bosch, G. Vilches-Freixas, M. Berbee, F. Visser</i>	OC - 0125
11:00	Linac-based pancreatic SABR using combined triggered imaging with auto beam hold and CBCTs <i>A. Miovecz (Hungary), K. Kisivan, D. Erdelyesi, D. Gutyna, C. Glavak, G. Lukacs, K. Mahr, A. Gulyban, Z. Kaposztas, F. Lakosi</i>	OC - 0126
11:10	The Role of a Radiopaque Hydrogel Spacer in Image-Guidance for Prostate Stereotactic Radiotherapy <i>O. Icht (Israel), S. Schlosser, Y. Landman, M. Rephael, A. Moore, D. Silvern, D. Bragilovski, D. Limon, E. Fredman</i>	OC - 0127
11:20	Quantifying the benefits of online daily adaptation for MR-guided RT in cervical cancer <i>A. Alshamrani (United Kingdom), A. Choudhury, C. Eccles, M. Aznar, R. Chuter, P. Hoskin</i>	OC - 0128

Track: Brachytherapy

Proffered Papers: Gynaecology

Saturday, 13 May 2023 10:30 - 11:30

Strauss 3

10:30	Impact of brachytherapy applicator on morbidity and local control in cervix cancer: EMBRACE study <i>M. Serban (Canada), S. Spampinato, A. de Leeuw, I. Fortin, N. Nevascil, C. Kirsits, M. Schmid, U. Mahantshetty, P. Hoskin, B. Segedin, K. Bruheim, F. Huang, B. Pieters, R. Nout, R. Pötter, K. Kirchheiner, I. Jürgenliemk-Schulz, K. Tanderup</i>	OC - 0129
10:40	External validation of automated adaptive planning for EMBRACE II cervical cancer brachytherapy <i>L. Rossi (The Netherlands), S. Chopra, R. Bijman, P. Mittal, S. Panda, S. Breedveld, R. Nout, B. Heijmen</i>	OC - 0130
10:50	Deep learning-based segmentation in cervical HDR brachytherapy with two types of applicators <i>R. Ni (Canada), K. Han, B. Haibe-Kains, A. Rink</i>	OC - 0131
11:00	Near-to-target-aware OARs segmentation in cervical HDR brachytherapy via deep learning <i>R. Ni (Canada), B. Haibe-Kains, A. Rink</i>	OC - 0132
11:10	Dosimetric risk factors for vaginal and sexual toxicity in locally advanced cervix cancer <i>A. Rink (Canada), J. Hanuschak, L. Conroy, K. Han, M. Milosevic, J. Lukovic, S. Ferguson, A. Salman, A. Santiago, J.L. Conway, J. Croke</i>	OC - 0133
11:20	GEC-ESTRO Best Junior Presentation: EviGUIDE - A tool for evidence-based decision making in image-guided adaptive brachytherapy <i>S. Ecker (Austria), C. Kirsits, M. Schmid, J. Knoth, G. Heilemann, A.A.C. De Leeuw, A.E. Sturdza, K. Kirchheiner, S. Spampinato, K. Tanderup, R. Pötter, N. Eder-Nesvacil</i>	OC - 0134

Track: Clinical

Mini-Oral: Breast

Saturday, 13 May 2023 10:30 - 11:30

Stolz 1

A randomized trial of adjuvant hyperthermia to RT of locally advanced breast cancer, ESHO 1-85. MO - 0135

J. Overgaard (Denmark), M.C. Hulshof, O. Dahl, G. Arcangeli

Single Pre-Operative Radiation Therapy (SPORT-CK) trial for low-risk breast cancer: A Phase 2 study MO - 0136

D. Mahmoud (Canada), L. Alvarado, S. Meterissian, D. Anderson, C. Lambert, F. Tremblay, V. Panet-Raymond, D. Fleischer, J. Keyserlingk, N. Otaky, A. Loutfi, M. David, M. Duclos, A. Saidi, P. Ramia, M. Yassa, T. Hijal

MC1635: final results of a randomized phase iii trial of hypofractionated radiotherapy for breast ca MO - 0137

C. Vargas (USA), K. Corbin, T. DeWees, L. McGee, R. Mutter, L. Vallow, D. Shumway, T. Vern-Gross, M. Halyard, S. Keole, S. Park, W. William, M. sarah, M. Golafshar, B. Laughlin, C. Thorpe, B. Pockaj

Nationwide RT trends & variation in locoregional M0 breast cancer treatment in NL – 2008 until 2019 MO - 0138

J. Evers (The Netherlands), M. Van der Sangen, M. Van Maaren, M. Bloemers, D. Van den Bongard, L. Strobbe, J. Maduro, M. Aarts, H. Struikmans, S. Siesling

Mepitel Film vs standard treatment for preventing radiotherapy skin toxicity: phase III study MO - 0139

M. Valli (Switzerland), D. Valcarengi, A. Tolotti, H. Vees, S. Liptrott, A. Puliatti, G. Presta, V. Torri, L. Moser

Predictive role of microvascular health status for RT acute toxicities in breast cancer patients. MO - 0140

E. La Rocca (Italy), F. Pisani, F. Badenchini, L. Possenti, A. Cicchetti, E. Gioscio, C. Giandini, R.R. Colciago, M.C. De Santis, R. Valdagni, T. Rancati

The Impact of 2019 ESTRO-ACROP target volume delineation guideline on breast-related complications MO - 0141

J.B. PARK (Korea Republic of), B. Jang, J.H. Chang, J.H. Kim, K.Y. Hong, U.S. Jin, H. Chang, Y. Myung, J.H. Jeong, C.Y. Heo, I.A. Kim, K.H. Shin

Implementation of mechanical ventilation for left breast cancer: final results of a randomized trial MO - 0142

L. Vander Veken (Belgium), G. Van Ooteghem, A. Razavi, S. Da Rita Quaresma, E. Longton, C. Kirkove, B. Ledoux, A. Vandermeulen, C. Abdel Massih, P. Henderickx, M. Gabriels, C. Delvaux, F. Salah, A. Vaandering, X. Geets

Track: RTT

Mini-Oral: Trends in dosimetry planning

Saturday, 13 May 2023 10:30 - 11:30

Stolz 2

Patch-based deep learning automatic organ segmentation for online adaptive prostate radiotherapy MO - 0143

W. Mukaidani (Japan), T. Shiinoki, Y. Yuasa, K. Fujimoto, Y. Kawazoe, Y. Ishihara, A. Sawada, Y. Manabe, M. Kajima, H. Tanaka

Pre-clinical use of deep learning optimization improves plan quality in head and neck VMAT MO - 0144

A. Arents-Huls (The Netherlands), M. de Boer, E. van der Wal, D. Fransen, F. Löfman, B. Kreike, R.G. Kierkels

- Impact of the 2022 UK Consensus dose-volume constraints on national SBRT benchmark planning MO - 0145
M. Kroiss (United Kingdom), P. Díez, R. Patel
- Practice-based Training Strategy for Therapist-Driven Prostate MR-Linac Adaptive Radiotherapy MO - 0146
W. Li (Canada), P. Lindsay, J. Padayachee, I. Navarro, J. Winter, J. Dang, S. Raman, V. Kong, A. Berlin, C. Catton, R. Glicksman, V. Malkov, K. Kataki, P. Chung
- Plan library approach to optimize online adapted MRgRT workflow in cervical cancer patients MO - 0147
C. Votta (Italy), L. Boldrini, A. Romano, G. Chiloire, G. Panza, G. Turco, L. Placidi, M. Nardini, D. Cusumano, R. Autorino, P. Cornacchione, L. Indovina, V. Valentini, M.A. Gambacorta
- Time trends for online adaptive treatment on the 1.5T MR-Linac MO - 0148
J. Westerhoff (The Netherlands), L.A. Daamen, E.N. de Groot-van Breugel, J.R.N. van der Voort van Zyp, J.J.C. Verhoeff, S. Mook, H.M. Verkooijen, M.P.W. Intven
- Development of novel outlining normal tissue structures for limb soft tissue sarcoma. MO - 0149
R. Simoes (United Kingdom), P. Shah, Y. Augustin, S. Gulliford, P. Hoskin, E. Miles, K. Harrington, A. Miah
- Accelerated Partial Breast Irradiation dosimetry for a conventional versus an integrated MR-Linac MO - 0150
J. Dean (Australia), F. Foroudi, M. Chao, F. Height, S. Fisher, D. Smith, S.P. Ng

Track: Clinical

Poster Discussion: Lung 1

Saturday, 13 May 2023 10:30 - 11:30

Business Suite 1-2

Chair: Jose Belderbos

- Effects of radiotherapy interruptions in lung cancer disease control: a multicenter study PD - 0151
E. Gomis Selles (Spain), Ó. Muñoz Muñoz, B.D. Delgado León, P. Jiménez Labaig, J. Cacicedo Fernández de Bobadilla, P. Romero Pareja, I. Paguey Garrido, S. Pérez Luque, M. Borrego Reina, J.L. López Guerra
- Radiation-induced lymphopenia risk model predicts durvalumab benefit in non-small cell lung cancer. PD - 0152
P. van Rossum (USA), P. Damen, T. Xu, B. Hobbs, R. Mohan, Z. Liao, S. Lin
- Radiation induced lymphopenia, its effect on pathologic regression and prognosis in LA lung cancer PD - 0153
S. Appel (Israel), J. Bar, Y.R. Lawrence, D. Urban, Z. Symon, J. Goldstein, S. Felder
- Dosimetric analysis of bronchial tree to assess toxicity-risk in SBRT of ultracentral lung tumors PD - 0154
M. Ahmadsei (Switzerland), V. Jegarajah, R. Dal Bello, S.M. Christ, M.M. Mayinger, L.S. Stark, J. Willmann, I.R. Vogelijs, P. Balermipas, N. Andratschke, S. Tanadini-Lang, M. Guckenberger
- Health-related quality of life in the randomised ARTFORCE PET-Boost trial in locally-advanced NSCLC PD - 0155

S. Cooke (The Netherlands), J. Belderbos, B. Reymen, M. Lambrecht, G. Fredberg Persson, C. Faivre-Finn, E. Dieleman, J. van Diessen, J. Sonke, D. De Ruyscher

Mortality after radiotherapy or surgery in the treatment of early stage non-small-cell lung cancer PD - 0156

J.A. Müller (Germany)

No changes in pulmonary function by spirometry after Stereotactic Body Radiotherapy in lung lesions PD - 0157

A.A.A. Geng Cahuayme (Spain), A. Giraldo Marín, M. Ramos Albiac, J. Garre Cristau, E. Recalde Vizcay, J. Giralte López de Sagredo

Cardiac dose and survival in stereotactic lung radiotherapy: results of multi-centre SSBROC trial PD - 0158

V. Chin (Australia), P. Chlap, R. Finnegan, E. Hau, A. Ong, X. Ma, L. Holloway, G. Delaney, S. Vinod

Association of Statin Intensity With Cardiac Events and Mortality After Radiotherapy for NSCLC PD - 0159

G. Walls (United Kingdom), J. O'Connor, E. McCarron, V. Giacometti, F. Duane, M. Harbinson, C. McCann, P. McKavanagh, A. Gavan, J. McAleese, A. Cole, K. Butterworth, C. McGarry, G. Hanna, S. Jain

A clinical evaluation of automatic open-source segmentation algorithm for lung cancer patients PD - 0160

A. Olloni (Denmark), C. Brink, T. Schytte, N. Sarup, E.L. Lorenzen

Actual radiotherapy utilisation for lung cancer in Europe: a systematic literature review PD - 0161

J. Corral (Spain), J.M. Borrás, J. Prades, Y. Lievens

Thymic epithelial tumour radiotherapy: A survey of current UK clinical practice PD - 0162

S. Robinson (United Kingdom), A. Gault, D. Gilligan

Track: Physics

Poster Discussion: Radiomics and modelling

Saturday, 13 May 2023 10:30 - 11:30

Business Suite 3-4

Combining tumor and whole-lung radiomics features to predict prognosis in locally advanced NSCLC PD - 0163

Z. Zhang (The Netherlands), M. Yan, Z. Wang, A. Dekker, L. Wee, A. Traverso, L. Zhao

The value of post Radiotherapy PSA dynamics for prostate cancer risk stratification models PD - 0164

J. Shortall (United Kingdom), E. Vasquez-Osorio, A. Green, D. Wong, P. Hoskin, A. Choudhury, M. van Herk, A. McWilliam

Combining patient and population rectal shapes for re-irradiation of recurring prostate cancer PD - 0165

S. Pilskog (Norway), A. Størksen Stordal, L. Bolstad Hysing, C. Ekanger, Ø. Lunde Rørtveit

Characterization of prostate cancer on bpMRI: comparison of zone and lesion-derived radiomic models PD - 0166

Withdrawn

Predicted tumour probability maps improve deep learning outcome prediction in oropharyngeal cancer PD - 0167

B. Ma (The Netherlands), A. De Biase, J. Guo, L. V. van Dijk, J. A. Langendijk, S. Both, P. M.A. van Ooijen, N. M. Sijtsema

Impact of tumor nuclei size variation for post radiotherapy recurrence outcome of GYN patients PD - 0168

Y. Zou (Canada), M. Lecavalier-Barsoum, M. Pelmus, S. Abbasinejad Enger

An innovative and versatile deep learning approach to estimate the out-of-field dose. PD - 0169

N. Benzazon (France), A. Carré, F. de Kermenguy, R. Allodji, F. de Vathaire, E. Deutsch, I. Diallo, C. Robert

Comparing ML performances of toxicity predictive models on a large cohort of breast cancer patients PD - 0170

M.G. Ubeira Gabellini (Italy), M. Mori, A. Cicchetti, P. Mangili, G. Palazzo, A. Fodor, A. Del Vecchio, N.G. Di Muzio, C. Fiorino

Survival prognostication in esophageal cancer using deep learning based segmentation features PD - 0171

L. Volmer (The Netherlands), V. Prudente, Z. Zhang, A. Dekker, M. Berbee, L. Wee

NTCP model prediction considering RBE variability in proton therapy of primary brain tumors PD - 0172

F. Hennings (Germany), M. Palkowitsch, J. Eulitz, A. Seidlitz, E.G. Troost, M. Krause, J. Bensberg, C. Hahn, F. Heinzelmann, C. Bäumer, A. Lühr, B. Timmermann, S. Löck

Proton center variations in predicting pulmonary toxicities from proton radiotherapy of lung cancer PD - 0173

T. Nano (USA), G. Valdes, J. Scholey, A. Comas-Leon, E. Gennatas, W. Hartsell, J. Zeng, M. Chuong, M. Mishra, L. Rosen, J. Chang, H. Tsai, J. Urbanic, C. Vargas, L. Ungar, E. Eaton, C. Simone

Radiomics-based prediction of local control of brain metastases after resection and radiotherapy PD - 0174

J.A. Buchner (Germany), F. Kofler, M. Mayinger, S.M. Christ, T.B. Brunner, A. Wittig, B. Menze, C. Zimmer, B. Meyer, M. Guckenberger, N. Andratschke, R.A. El Shafie, J. Debus, S. Rogers, O. Riesterer, K. Schulze, H.J. Feldmann, O. Blanck, C. Zamboglou, K. Ferentinos, R. Wolff, K.A. Eitz, S.E. Combs, D. Bernhardt, B. Wiestler, J.C. Peeken

Track: Interdisciplinary

Symposium: Presidential symposium - From innovation to action: The 2nd translational gap

Saturday, 13 May 2023 11:40 - 12:40

Plenary Hall

Chair: Anna Kirby

11:40	The evidence gap <u>A. Henry (United Kingdom)</u>	SP - 0175
11:55	The translational gap <u>Y. Lievens (Belgium)</u>	SP - 0176
12:10	The access gap <u>M. Yap (Australia)</u>	SP - 0177
12:25	The outcomes gap <u>A. Aggarwal (United Kingdom)</u>	SP - 0178

*Track: Interdisciplinary***Award Lecture: E van der Schueren Award**

Saturday, 13 May 2023 14:15 - 14:40

Plenary Hall

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|-------|---|-----------|
| 14:15 | Introduction
<u>B. Slotman (The Netherlands)</u> | SP - 0179 |
| 14:20 | Medical education in the post-COVID era: Challenges and opportunities
<u>L.T. Tan (United Kingdom)</u> | SP - 0180 |

*Track: Interdisciplinary***Award Lecture: Jens Overgaard Legacy Award**

Saturday, 13 May 2023 14:40 - 15:05

Plenary Hall

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|-------|---|-----------|
| 14:40 | Introduction
<u>J. Overgaard (Denmark)</u> | SP - 0181 |
| 14:45 | Quo Vadis? From pioneering experiences to digital medicine in the treatment of rectal cancer
<u>V. Valentini (Italy)</u> | SP - 0182 |

*Track: Interdisciplinary***Symposium: Dose escalation**

Saturday, 13 May 2023 15:15 - 16:30

Schubert

- | | | |
|-------|--|-----------|
| | Chair: Peter Hoskin | - |
| | Co-Chair: Nathan Torelli | - |
| 15:15 | Dose escalation: Biological or absolute - The evidence
<u>I.R. Vogelius (Denmark)</u> | SP - 0183 |
| 15:33 | What can IMRT achieve in dose escalation?
<u>F. Pos (The Netherlands)</u> | SP - 0184 |
| 15:51 | What can brachytherapy achieve in dose escalation?
<u>A. Gomez Iturriaga (Spain)</u> | SP - 0185 |
| 16:09 | Where does SBRT stand in dose escalation? Is combination therapy with brachytherapy the optimal solution?
<u>A. Loblaw (Canada)</u> | SP - 0186 |

*Track: Radiobiology***Symposium: Radiotherapy-immunotherapy combinations - How does the tumour microenvironment keep tumours cold?**

Saturday, 13 May 2023 15:15 - 16:30

Lehar 4

- | | | |
|-------|--|-----------|
| | Co-Chair: Daan Boreel | - |
| | Chair: Ester Hammond | - |
| 15:15 | Oncogene-mediated suppression of immune responses
<u>M. van Vugt (The Netherlands)</u> | SP - 0187 |
| 15:33 | Mechanisms underlying immune suppression by hypoxia in cervix cancer patients during clinical radiotherapy
<u>H. Lyng (Norway)</u> | SP - 0188 |
| 15:51 | Immune escape in solid tumours: How radiation-induced immune checkpoints change the playing field
<u>E. Wennerberg (United Kingdom)</u> | SP - 0189 |

- 16:09 Improving radiotherapy-induced immune stimulation by DNA damage response inhibition SP - 0190
K. Harrington (United Kingdom)

Track: Clinical

Joint Symposium: ESTRO-CARO: Next generation radiation oncology - How to best obtain evidence for emerging technologies

Saturday, 13 May 2023 15:15 - 16:30

Plenary Hall

Chair: Pierre Blanchard

-

Chair: David Roberge

-

- 15:15 Methodological issues related to evaluating personalised radiotherapy SP - 0191
E. Hall (United Kingdom)

- 15:33 Adaptive radiotherapy in daily practice - What evidence do we still need to be able to implement? SP - 0192
P. Balermipas (Switzerland)

- 15:51 How to integrate AI/IO in the clinical research setting SP - 0193
E. Deutsch (France)

- 16:09 MR-guided radiotherapy - What are the remaining elephants in the room and how should they be tackled? SP - 0194
A. Sahgal (Canada)

Track: Clinical

Symposium: Controversies in postoperative radiotherapy of oral cavity cancer

Saturday, 13 May 2023 15:15 - 16:30

Hall A

Chair: Jesper Grau Eriksen

-

Co-Chair: Sabina Khan

-

- 15:15 Margins and elective nodal irradiation in PORT - How much do they matter? SP - 0195
V. Gregoire (France)

- 15:40 What role for brachytherapy and SBRT? SP - 0196
A. Budrukkar (India)

- 16:05 Revisiting concurrent postoperative chemoradiotherapy - What do we know? SP - 0197
J.G. Eriksen (Denmark)

Track: Physics

Pitch Session: Will automation of radiotherapy tasks solve more problems than it causes?

Saturday, 13 May 2023 15:15 - 16:30

Lehar 1-3

Chair: Eduard Gershkevitch

-

Chair: Myriam Ayadi Zahra

-

- 15:15 Setting the scene SP - 0198
B. Heijmen (The Netherlands)

- 15:25 Target volume contouring automation: Technical perspective SP - 0199
C. Brouwer (The Netherlands)

- 15:40 Target volume contouring automation: Clinical perspective SP - 0200
E. Rivin del Campo (France)

15:55	Planning automation <u>L. Marrazzo (Italy)</u>	SP - 0201
16:10	Will automation work in low- and middle-income countries? <u>E. Titovich (Austria)</u>	SP - 0202
16:25	Voting	SP - 0203

*Track: Physics***Symposium: Clinical audits in radiation oncology: Current status and guidance for its implementation**

Saturday, 13 May 2023 15:15 - 16:30

Strauss 1

Chair: Tomas Kron

-

Co-Chair: Helen Grimes

-

15:15	QuADRANT – a Study on Clinical Audit Uptake and Implementation Across Europe – Current Status and Recommendations on how to move forward. <u>N. Jornet (Spain)</u> , M. Coffey, A. Bradly, J. Clark, F. Giammarile, W. Wadsak, M. Hierath, P. Strojani, D. Howlett	SP - 0204
14:40	B-QUATRO clinical audits: A Belgian success story? <u>A. Vaandering (Belgium)</u> , A. Batamuriza Almasi, A. Vermylen, B. Vanderstraeten, C. Weltens, C. Meunier, D. Verellen, K. Vandeputte, L. Van den Berghe, M. Van Dycke, M. Tomsej, N. Linthout, N. Deman, P. Van Houtte, P. Thysebaert, S. Cucchiaro, S. Derycke, V. Remouchamps, P. Bijdekerke, P. Scalliet, S. Vynckier, Y. Lievens, F. Vanhoutte, E. Goemaere	SP - 0205
16:05	Integrating different groups' audit activity to create a comprehensive network <u>S. Misson-Yates (United Kingdom)</u> , C. Clark, P. Diez	SP - 0206

*Track: Brachytherapy***Symposium: Preparing for, and handling of, automated brachytherapy treatment planning in clinical practice**

Saturday, 13 May 2023 15:15 - 16:30

Strauss 2

Chair: Nicole Eder-Nesvacil

-

Co-Chair: Michael Baumgartl

-

15:15	The use of data repositories for developments in brachytherapy automatisisation <u>L. Tagliaferri (Italy)</u> , A. Damiani	SP - 0207
15:33	How artificial intelligence will change the traditional way of treatment planning <u>T. Alderliesten (The Netherlands)</u>	SP - 0208
15:51	Multi-criteria optimisation in brachytherapy: Generation and selection of optimal plans <u>L. Beaulieu (Canada)</u> , C. Bélanger, P. Chatigny	SP - 0209
16:09	Challenges and opportunities with the introduction of automated treatment planning <u>D. Barten (The Netherlands)</u>	SP - 0210

*Track: RTT***Symposium: Patient preparation and positioning**

Saturday, 13 May 2023 15:15 - 16:30

Strauss 3

Co-Chair: Siret Kivistik

-

Chair: Marton Vekas

-

- 15:15 Research on an upright positioning system for radiotherapy
S. Boisbouvier (France), A. Boucaud, V. Grégoire SP - 0211
- 15:40 Clinical implementation of SGRT
F. Moura (Portugal) SP - 0212
- 16:05 The role of patient preparation strategies with real-time adaptive radiotherapy
M. Chamberlain (Switzerland) SP - 0213

*Track: Clinical***Mini-Oral: Prostate**

Saturday, 13 May 2023 15:15 - 16:15

Stolz 1

- Impact of UK National Prostate Cancer Audit: changing practice in a large UK centre
V. Manik (United Kingdom), G. Doss, S. Wong, T. Greener, S. Mannion, M. Adams, S. Naz, J. Barber, K. Innes, T. Guerrero-Urbano, S. Morris, S. Hughes, V. Mullassery, V. Harris, G. Azad, I. White, K. Morrison, A. Aggarwal, G. Ntentas, S. Vivekanandan MO - 0214
- Incidence and predictors of lower extremity lymphedema after post-prostatectomy radiotherapy
G. Facondo (Italy), M. Bottero, A. Farneti, A. Faiella, P. D'Urso, G. Sanguineti MO - 0215
- Hypofractionated IGRT for prostate cancer: first report on toxicity of a phase III randomized trial
E. Mazzeo (Italy), A. Bruni, C. Iotti, G. Frezza, B. Meduri, G. Guidi, F. Vigo, R. Vicini, M. Vernaleone, S. Ciabatti, E. Cenacchi, A. Stefanelli, G. Miranda, S. Diquattro, A. Romeo, R. D'Amico, R. D'Amico, F. Bertoni, F. Lohr MO - 0216
- Pattern of relapse following hypofractionated radiotherapy of IR prostate cancer in the PROFIT trial
M. Lange (France), L. Ollivier, M. Renouf, N. Magne, I. Latorzeff, P. Pommier, E. Martin, A. Pommier, G. Béra, C. Catton, K. Zhou, M. Bellanger, J. Martin, S. Supiot MO - 0217
- SABR with boost to the DIL in low-intermediate risk prostate cancer: a dose escalation trial
P. Bonome (Italy), M. Ferro, G. Macchia, D. Pezzulla, C. Romano, A. Zamagni, M. Buwenge, A.G. Morganti, S. Cilla, F. Deodato MO - 0218
- Histopathology-validated detection rates of intraprostatic lesions with mpMRI, PSMA-PET and ACE-PET
K. Sandgren (Sweden), S. Strandberg, J. Jonsson, J. Grefve, A. Keeratijarut Lindberg, E. Nilsson, A. Bergh, K. Söderkvist, C. Thellenberg Karlsson, B. Friedrich, A. Widmark, L. Blomqvist, V. Berg Loegager, J. Axelsson, M. Ögren, T. Nyholm, K. Riklund MO - 0219
- Two-year impact of bowel symptoms on HRQoL after RT for prostate cancer with pelvic node irradiation
M. Pavarini (Italy), L. Rago, F. Munoz, A. Magli, D. Cante, G. Girelli, A. Bresolin, B. Noris Chiorda, J.M. Waskiewicz, B. Avuzzi, E. Garibaldi, A. Faiella, E. Villa, P. Ferrari, L. Ferella, C. Piva, T. Statuto, M. Gatti, T. Rancati, R. Valdagni, V.L. Vavassori, G. Sanguineti, N.G. Di Muzio, C. Fiorino, C. Cozzarini MO - 0220

Intraprostatic GTV delineation in 18F-PSMA-PET Images for Patients with Primary PCa using a CNN MO - 0221

J. Holzschuh (Germany), M. Mix, J. Ruf, T. Hölscher, J. Kotzerke, A. Vrachimis, H. Ilhan, S.K. Spohn, T. Fechter, D. Kostyszyn, T. Fechter, P. Bronsert, C. Gratzke, R. Grosu, S.C. Kamran, P. Heidari, T.S. Ng, A. Könik, A. Grosu, C. Zamboglou

Track: Physics

Mini-Oral: Image processing and treatment evaluation

Saturday, 13 May 2023 15:15 - 16:15

Stolz 2

A neural network to create super-resolution MR from multiple 2D brain scans of paediatric patients MO - 0222

J. Benitez-Aurioles (United Kingdom), A. Davey, M. Aznar, A. Bryce-Atkinson, E.M. Vásquez Osorio, S. Pan, P. Sitch, M. Van Herk

Implementation of an MR-Only radiotherapy workflow for CNS: from commissioning to clinical use MO - 0223

S. Emin (Sweden), E. Rossi, G. Gagliardi, M. Hedman, F. Villegas

Uncertainty-aware MR-base CT synthesis for robust proton planning of skull-based tumour MO - 0224

X. Li (Switzerland), R. Belloti, G. Meier, D. Weber, A. Lomax, J. Buhmann, Y. Zhang

How big is the actual underdosage for replanned proton therapy head-and-neck cancer patients? MO - 0225

I. Bahij (Denmark), U.V. Elstrøm, C. Grau, S.S. Korreman

Functional lung preservation during stereotactic body radiotherapy guided by perfusion PET/CT MO - 0226

F. Lucia (France), M. Hamya, F. Pinot, G. Goasduff, F. Blanc-Béguin, D. Bourhis, O. Pradier, A. Lucia, S. Hennebicq, M. Mauguén, R. Floch, U. Schick, V. Bourbonne, P. Salaun, P. Le Roux

Validation of 4DMRI-based virtual 4DCT and application in gated particle therapy of lung cancer MO - 0227

S. Annunziata (Italy), M. Rabe, A. Vai, S. Molinelli, A. Nakas, G. Meschini, A. Pella, V. Vitolo, A. Barcellini, S. Imparato, M. Ciocca, E. Orlandi, G. Landry, F. Kamp, C. Kurz, G. Baroni, M. Riboldi, C. Paganelli

Evaluation and correction of geometric accuracy in diffusion-weighted imaging on a 0.35T MR-LINAC MO - 0228

B. Pouymayou (Switzerland), P. Wallimann, M. Piccirelli, S. Nowakowska, M. Mayinger, M. Guckenberger, S. Tanadini-Lang, A. Boss, N. Andratschke, A. Bink

Fluid regularisation to accommodate large-scale deformations in image-guided radiotherapy MO - 0229

T. Draper (The Netherlands), C. Zachiu, B. Raaymakers

Track: Clinical

Poster Discussion: Breast

Saturday, 13 May 2023 15:15 - 16:15

Business Suite 1-2

One week hypofractionated breast radiotherapy acute toxicity with SIB and regional nodal irradiation PD - 0230

G. Potdevin-Stein (Spain), A. Cristian C., A. Vallejo, I. Libreros, I. Storino, C. Echeverri, D.E. Santa-María, G.A. Marín, C.A. Buelvas, R. Ciérvide, Á. Montero-Luis

- Acute toxicity after the 5-fraction versus 15-fraction radiotherapy regimen for early breast cancer PD - 0231
D. Mink van der Molen (The Netherlands), M.C. Batenburg, T. van 't Westeinde, I.E. van Dam, I.O. Baas, L.M. Veenendaal, W. Maarse, M. Sier, E.J. Schoenmaeckers, J.P. Burgmans, R.M. Bijlsma, S. Siesling, A. Doeksen, H.M. Verkooijen, L.J. Boersma, F. van der Leij
- Skin Dose Predictors of Early-Late Reactions after Whole Breast RT in a Single-Center Large-Cohort PD - 0232
A. Cicchetti (Italy), A. Fodor, P. Mangili, M. Mori, A. Chiara, C. Deantoni, M. Pasetti, G. Palazzo, M.G. Ubeira-Gabellin, T. Rancati, A. Del Vecchio, N.G. Di Muzio, C. Fiorino
- One-Week External Beam Partial Breast Irradiation: Survival and Toxicity Outcomes PD - 0233
R.R. Colciago (Italy), E. La Rocca, C. Giandini, A. Rejas Mateo, G. Capri, S. Folli, N. Bedini, L. Lozza, S. Meroni, E. Pignoli, T. Rancati, S. Arcangeli, M.C. De Santis
- Single-fraction stereotactic radiotherapy for Partial Breast Irradiation using the Gammapod system PD - 0234
M. Trovo (Italy), C. Reverberi, A. Prisco, L. Seriau, S. Bertozzi, M. Bonotto, M. Mansutti, M. Orsaria, E. Pegolo, M. Guarnieri, D. Marfisi, V. Gagliardi, E. Moretti, P. Scalchi, C. Zuiani, C. Cedolini
- Variation in incidental dose to the axilla in patients treated with whole breast radiotherapy alone PD - 0235
F. Wilson (United Kingdom), T. Jaikuna, C. Anandadas, D. Azria, S. Gutierrez-Enriquez, D. De Ruysscher, M. Lambrecht, T. Rancati, T. Rattay, C. Talbot, B. Rosenstein, E. Sperk, A. Vega, L. Veldeman, C. West, A. Webb, J. Chang-Claude, P. Seibold, E. Vasquez-Osorio, M. Aznar
- Patterns of recurrence in breast cancer patients after nipple-sparing and skin-sparing mastectomy PD - 0236
L. Alvarado (Canada), D. Mahmoud, R. Franco, P. Poortmans, O. Kaidar-Person, T. Hijal
- Intrafractional dose coverage of the internal mammary nodes in high-risk breast cancer patients PD - 0237
A.W.M. Nielsen (Denmark), H. Spejlborg, P.R. Poulsen, B.V. Offersen
- OIS-triggered PROMs for large-scale symptom tracking: Experience after 1000 patients PD - 0238
A. Renner (Austria), J. Widder, D. Georg, G. Heilemann
- Why is pain poorly managed in breast cancer patients? A multicenter analysis on 2104 patients PD - 0239
C.M. Donati (Italy), E. Nardi, A. Zamagni, G. Siepe, C. Malizia, F. Cellini, A. Di Rito, M. Portaluri, C. De Tommaso, A. Santacaterina, C. Tamburella, R. Di Franco, S. Parisi, S. Cossa, V. Fusco, A. Bianculli, P. Ziccarelli, L. Ziccarelli, D. Genovesi, L. Caravatta, F. Deodato, G. Macchia, F. Fiorica, G. Napoli, M. Buwenge, R. Rossi, S. Cammelli, M. Maltoni, A.G. Morganti
- Ten-year outcomes of SBRT for oligometastatic breast cancer (OMBC): does synchronous OMBC benefit? PD - 0240
S. Nagpal (United Kingdom), K. Khabra, G. Ross, A. Kirby
- Differences in metastatic pattern between 18F-FDG-PET/CT and "CT only" in OMD breast cancer PD - 0241
S. Pfeiffer (Germany), R. Asadpour, L. Cala, W. Weber, S.E. Combs, K.J. Borm

Track: Physics

Poster Discussion: Current challenges in proton therapy

Saturday, 13 May 2023 15:15 - 16:30

Business Suite 3-4

Comparison of static and dynamic proton arc treatment planning algorithms in oropharyngeal cancer PD - 0242

B.A. de Jong (The Netherlands), L. Zhao, V. Wase, O. Marthin, X. Ding, E. Engwall, E.W. Korevaar, J.A. Langendijk, S. Both

Proof-of-concept: Novel CBCT-based adaptive robust optimization in sinonasal cancer proton therapy PD - 0243

N. Vatterodt (Denmark), R. Argota-Perez, M.B. Sharma, A.I.S. Holm, U.V. Elstrøm, K. Jensen, S.S. Korreman

Systematic analysis of bone marrow sparing for the treatment of cervical cancer with IMPT PD - 0244

S. Kuipers (The Netherlands), J. Godart, A. Corbeau, S. Breedveld, S. de Boer, J.W. Mens, R. Nout, M. Hoogeman

A concept for ion type-independent RBE modelling in proton and light ion therapy PD - 0245

L. Tian (Germany), A. Luehr

Can combined proton-photon therapy improve plan robustness against breathing motion? PD - 0246

F. Amstutz (Switzerland), D.C. Weber, A.J. Lomax, J. Unkelbach, Y. Zhang

Clinical suitability of CBCT-based synthetic CTs in proton therapy for head and neck patients PD - 0247

R. de Koster (The Netherlands), A. Thummerer, G. Guterres Marmitt, D. Scandurra, H. Langendijk, S. Both

Can surface imaging predict the impact of anatomical deformations on proton breast treatment? PD - 0248

V. Hamming (The Netherlands), D. Cannavò, B. Strbac, G. Guterres Marmitt, J.H. Maduro, J.A. Langendijk, N.M. Sijtsma, S. Both

Automatic deep learning treatment planning of gradient-optimized match fields for PBS proton therapy PD - 0249

G.A. Helgason (Sweden), M. Arvola, D. Maes, F. Löfman, L. Glimelius

Intrafraction tumor motion monitoring and dose reconstruction for liver spot scanning proton therapy PD - 0250

S. Nankali (Denmark), E. Worm, J. Thomsen, L. Stick, M. Høyer, B. Weber, H. Mortensen, P. Poulsen

Clinical implementation of deep learning automated robust IMPT planning for oropharyngeal cancer PD - 0251

I. van Bruggen (The Netherlands), M. van Dijk, M. Brinkman, M. Holmström, E. Oldehinkel, D. Scandurra, J. Langendijk, S. Both, E. Korevaar

2D dosimetric impact of an in-beam MR magnetic field on scanned proton pencil beam spot fields PD - 0252

B. Gebauer (Germany), J. Pawelke, A. Hoffmann, A. Lühr

Ultra-compact and highly efficient proton therapy: Design considerations and clinical simulations PD - 0253

V. Maradia (Switzerland), D. Meer, S. van de Water, W. Verbakel, D.C. Weber, A.J. Lomax, S. Psoroulas

*Track: Interdisciplinary***Proffered Papers: Education and training / Professional development**

Saturday, 13 May 2023 16:45 - 17:45

Schubert

- | | | |
|-------|--|-----------|
| 16:45 | Feasibility of RTT-only Conebeam CT-guided online adaptive radiotherapy for bladder cancer

<i>K. Goudschaal (The Netherlands), S. Azzarouali, D. den Boer, J. Visser, L. Daniels, M. Hulshof, A. Bel</i> | OC - 0254 |
| 16:55 | Education innovation in radiotherapy treatment planning

<i>C. Dijkstra (The Netherlands), M. de Rooy, M. Bogowicz, B. Hanbeukers, L. Boersma, M. Jacobs, P. Simons</i> | OC - 0255 |
| 17:05 | Palliative care education in radiation oncology: current knowledge, skills and attitudes

<i>Y. van der Linden (The Netherlands), E. de Nijs, S. Schoof, T. Wiersma, C. Meun</i> | OC - 0256 |
| 17:15 | Career advancement through mentoring; final evaluation of the ESTRO pilot mentoring program

<i>J. Heukelom (The Netherlands), J. Grau Eriksen, A. Webster, B. Tomasik, D. Nevens, J. Bertholet, K. Røe Redalen, L.J. Dubois, P. Franco, S. Perryck, S. Petit</i> | OC - 0257 |
| 17:25 | Impact of discrimination on training and career of radiation oncologists in France

<i>S. Aziez (France), C. Evin, D. Azria, E. Montpetit, Y. Gannam, A. Ruffier, V. Vendrely, A. Laprie, F. Huguet</i> | OC - 0258 |
| 17:35 | Diversity, equity, and inclusion within radiation oncology in Europe: a qualitative study

<i>A. Abravan (United Kingdom), D. Correia, A. Gasnier, S. Shakhverdian, T. van der Stok, J. Bertholet, L. Dubois, B. Jereczek-Fossa, M. Pepa, M. Spalek, S. Petit, P. Franco, V. Petit-Steeghs</i> | OC - 0259 |

*Track: Radiobiology***Proffered Papers: Immuno-radiobiology**

Saturday, 13 May 2023 16:45 - 17:45

Lehar 4

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|-------|--|-----------|
| | Co-Chair: | - |
| | Chair: Kevin Harrington | - |
| 16:45 | Delayed tumor draining lymph node irradiation to maximize radioimmunotherapy combinations

<i>M. Pruschy (Switzerland), C.S. Yong, I. Telarovic</i> | OC - 0260 |
| 16:55 | Impact of radiation to host immune system in patients treated for locally advanced NSCLC

<i>C. Pasquier (France), L. Chaltiel, C. Massabeau, A. Rabeau, L. Lebas, J. Texier, N. Caunes-Hilary, E. Cohen-Jonathan Moyal, J. Mazières, J. Khalifa</i> | OC - 0261 |
| 17:05 | The longitudinal effect of neoadjuvant radiotherapy on lymphocytes in primary breast cancer

<i>M. Yoneyama (United Kingdom), K. Zormpas-Petridis, R. Robinson, F. Sobhani, I. Roxanis, E. Provenzano, H. Steel, S. Lightowlers, M. Murthy, C. Philpot, S.P. Castillo, T. Lund, E. Wennerberg, A. Melcher, C. Coles, Y. Yuan, N. Somaiah</i> | OC - 0262 |
| 17:15 | CD122-directed IL-2/αIL-2 complexes enhance abscopal responses to radiation combined with anti-PD-1

<i>K. Onyshchenko (Germany), R. Luo, A. Grosu, E. Firat, G. Niedermann</i> | OC - 0263 |

- 17:25 Clinical immunomodulation by ATR inhibition combined with radiation OC - 0264
M. Dillon (United Kingdom), E. Patin, M. McLaughlin, L. Grove, P. Nenclares, K. Harrington
- 17:35 Dynamics of T-cell-driven immune responses to radiotherapy in a model of head and neck cancer OC - 0265
C.M.L. Chan Wah Hak (United Kingdom), H. Baldock, E. Appleton, J. Hassan, M. Pedersen, M. Ono, K.J. Harrington, A. Melcher

Track: Clinical

Proffered Papers: Palliation - Oligometastases

Saturday, 13 May 2023 16:45 - 17:45

Plenary Hall

- 16:55 Radiotherapy 3 vs 6 Gy in Gonarthrosis and Coxarthrosis. A non-inferiority Trial. OC - 0266
D. Rivas (Spain), D. Gonsalves, C. Laria, C. Nuño, R. Hernanz, A. Seral, J.A. González-Ferreira, Á. Acosta, J. Andreescu, Y. Ramírez, E. López
- 17:05 Long-term results of an SBRT dose-escalation trial for bone and lymph node metastases (NCT03486431) OC - 0267
C. Mercier (Belgium), C. Billiet, I. Joye, P. Meijnders, D. Nevens, P. Ost, D. Verellen, P. Dirix
- 17:15 Should OARs be prioritized in SABR for oligometastases? A secondary analysis of the SABR-5 trial OC - 0268
R.E. Cereno (Canada), B. Mou, S. Baker, N. Chng, G. Arbour, A. Bergman, M. Liu, D. Schellenberg, Q. Matthews, V. Huang, A. Mestrovic, D. Hyde, A. Alexander, H. Carolan, F. Hsu, S. Atrchian, I. Mohamed, A. Lin, T. Berrang, A. Bang, W. Jiang, H. Pai, S. Tyldesley, R. Olson
- 17:25 Early toxicity of SBRT for oligometastatic cancer patients in the EORTC/ESTRO OligoCare cohort OC - 0269
F. Alongi (Italy), U. Ricardi, M. Scorsetti, L. Livi, P. Balermipas, Y. Lievens, P. Braam, B.A. Jereczek-Fossa, K. Stellamans, I. Ratosa, J. Widder, H. Peulen, P. Dirix, L. Verbeke, S. Ramella, H. Hemmatazad, K. Khanfir, X. Geets, P. Jeene, T. Zilli, B. Fournier, C. Fortpied, F.B. Oppong, P. Ost, M. Guckenberger
- 17:35 Metastases-directed SRT and systemic therapy: EORTC-ESTRO OligoCare delphi consensus recommendations OC - 0270
S. Kroeze (Switzerland), M. Pavic, K. Stellamans, Y. Lievens, C. Becherini, M. Scorsetti, F. Alongi, U. Ricardi, B. Jereczek, P. Westhoff, J. But-Hadzic, J. Widder, X. Geets, S. Bral, M. Lambrecht, C. Billiet, I. Sirak, S. Ramella, I.G. Battista, S. Benavente, A. Zapatero, F. Romero, T. Zilli, K. Khanfir, H. Hemmatazad, B. De Bari, D. Klass, S. Adnan, H. Peulen, J. Salinas Ramos, M. Strijbos, S. Popat, P. Ost, M. Guckenberger
- 17:35 SBRT for spine metastases: A systematic review for preparation of an ESTRO practice guideline OC - 0271
R.S. Guninski (Switzerland), F. Cuccia, N. Andratschke, C. Belka, D. Bellut, M. Dahele, M. Josipovic, P. Mancosu, G. Minniti, M. Niyazi, U. Ricardi, P.M. af Rosenschöld, A. Sahgal, W. Verbakel, Y.M. Tsang, M. Guckenberger, F. Alongi

Track: Clinical

Proffered Papers: Lower GI

Saturday, 13 May 2023 16:45 - 17:45

Hall A

- 16:45 Organ preservation in rectal cancer: the randomised STAR-TREC phase II trial OC - 0272
C. Marijnen (The Netherlands), J. de Wilt, S. Bach, F. Peters, K. Spindler, A. Appelt, M. Teo, V. Homer, N. Abbott, I. Geh, S. Korsgen, I. Al-Najami, A. Rombouts, P. Christensen, A. Gilbert, L. Navarro-Nunez, P. Quirke, N. West, D. Sebag-Montefiore

16:55	Quality of life following TNT of rectal cancer in the CAO/ARO/AIO-12 phase 2 trial <i>R. Kosmala (Germany), E. Fokas, A. Salazar Hammann, P. Paulus, M. Flentje, C. Germer, M. Ghadimi, R. Hofheinz, M. Diefenhardt, C. Rödel, B. Polat</i>	OC - 0273
17:05	Trend in overall survival after treatment failure in patients with locally advanced rectal cancer <i>M. Diefenhardt (Germany), M. Fleischmann, D. Martin, R. Hofheinz, C. Rödel, E. Fokas</i>	OC - 0274
17:15	Timing of surgery after short course radiotherapy for rectal cancer: real-world evidence <i>M. Verweij, J. Franzen, H. van Grevenstein, L. Verkooijen, M. Intven (The Netherlands)</i>	OC - 0275
17:25	Relationships between microbiome and response to neoadjuvant chemoradiotherapy in rectal cancer <i>H.I. Lee (Korea Republic of), B. Jang, J.H. Chang, T.H. Lee, J.H. Park, E.K. Chie</i>	OC - 0276
17:35	Capecitabine or 5-fluorouracil infusion with radiotherapy of anal cancers in the FFCD-Anabase cohort <i>A. Delhial (France), C. Lemanski, K. Le-Malicot, A. Saint, E. Rivin del Campo, P. Pommier, P. Regnault, N. Baba-Hamed, P. Ronchin, L. Quéro, E. Ménager-Tabourel, O. Diaz, A. Lièvre, D. Tougeron, F. Mornex, A. Larrouy, N. Barbier, V. Vendrely</i>	OC - 0277

Track: Physics

Proffered Papers: MR-Linac

Saturday, 13 May 2023 16:45 - 17:45

Strauss 1

16:45	Real-time clinical decision-making using motion including dose calculation <i>E. Goodwin (United Kingdom), B. Eiben, E. Persson, S. Nill, U. Oelfke</i>	OC - 0278
16:55	Validation of intra-fraction adaptations for the MR-linac: novel drift correction and replanning <i>M. van den Dobbelsteen (The Netherlands), S. Hackett, H. de Boer, B. van Asselen, S. Oolbekkink, B. Raaymakers</i>	OC - 0279
17:05	MR-guided SBRT of infra-diaphragmatic soft tissue metastases – early toxicity and dosimetric results <i>M. Felter (Denmark), P. Krause Møller, M. Josipovic, M. Josipovic, S. Bekke, U. Bernchou, E. Serup-Hansen, P. Parikh, K. Joshua, P. Geertsens, C. Behrens, I. Vogelius, M. Pøhl, T. Schytte, G. Persson</i>	OC - 0280
17:15	Validation of a pre-clinical MRI-guided MLC tracking workflow using a novel scintillator array <i>P. Uijtewaal (The Netherlands), P. Borman, P. Woodhead, W. de Vries, S. Hackett, B. Raaymakers, M. Fast</i>	OC - 0281
17:25	The effect of systematic dose rate transients on accumulated dose during MR-linac gated treatments <i>M.F. Klavsen (Denmark), K. Boye, C. Ankjærgaard, I.R. Vogelius, C.P. Behrens, C.E. Andersen</i>	OC - 0282
17:35	Towards simulation-free MR-linac planning for definitive male pelvis treatment <i>M. Carr (Australia)</i>	OC - 0283

*Track: Physics***Proffered Papers: Proton treatment planning**

Saturday, 13 May 2023 16:45 - 17:45

Lehar 1-3

- | | | |
|-------|---|-----------|
| 16:45 | Multi-center analysis shows inconsistency of the Dutch robustness protocol for Head and Neck IMPT | OC - 0284 |
| | <i>J. Rojo Santiago (The Netherlands), S.J. Habraken, M. Unipan, S. Both, G. Bosmans, Z. Perkó, E. Korevaar, M.S. Hoogeman</i> | |
| 16:55 | Fully automated robust multi-criterial treatment planning for HNC IMPT | OC - 0285 |
| | <i>M. Huiskes (The Netherlands), W. Kong, E. Astreinidou, K. Crama, S. Breedveld, B. Heijmen, C. Rasch</i> | |
| 17:05 | Analysis of Performance and Failure Modes of the IROC Proton Liver Phantom | OC - 0286 |
| | <i>H. Mehrens (USA), P. Taylor, P. Alvarez, S. Kry</i> | |
| 17:15 | Fast and fully-automated robust multi-criterial IMPT planning via sparsity induced spot selection | OC - 0287 |
| | <i>W. Kong (The Netherlands), M. Oud, S. Habraken, M. Huiskes, E. Astreinidou, C. Rasch, B. Heijmen, S. Breedveld</i> | |
| 17:25 | In vitro data selection strongly impact RBE model predictions | OC - 0288 |
| | <i>E. Lyngholm (Norway), K. S. Ytre-Hauge, C. H. Stokkevåg, A. H. Handeland, H. Henjum, J. Tjelta, I. Meric, A. Lühr, L. Tian</i> | |
| 17:35 | Practical and effective ART alternatives in H&N IMPT approaching daily in-room replanning quality | OC - 0289 |
| | <i>M. Oud (The Netherlands), S. Breedveld, M. Gízyńska, S. Habraken, Z. Perkó, B. Heijmen, M. Hoogeman</i> | |

*Track: Brachytherapy***Proffered Papers: Physics**

Saturday, 13 May 2023 16:45 - 17:45

Strauss 2

- | | | |
|-------|--|-----------|
| 16:46 | Investigation of the feasibility of selenium-75 as a viable brachytherapy source | OC - 0290 |
| | <i>J. Reid (Canada), J. Kalinowski, J. Munro III, A. Armstrong, S. Enger</i> | |
| 16:55 | Improving HDR brachytherapy needle visibility during US imaging via vibration-induced color-Doppler | OC - 0291 |
| | <i>J. Dupere (USA), E. Brost, M. Urban, M. Hainy, C. Deufel</i> | |
| 17:06 | GEC-ESTRO recommendations for commissioning a brachytherapy TPS | OC - 0292 |
| | <i>M. De Brabandere (Belgium), L. Beaulieu, M. Carrara, C. Dejean, C. Dempsey, C. Lee, J. Mason, M.J. Rivard, J. Perez-Calatayud, R. Smith, J. Steenhuijsen, R. Walter, G. Workman, A. Zuchora, F. Siebert</i> | |
| 17:16 | Intrinsic energy dependent response of inorganic scintillation detectors for in vivo dosimetry | OC - 0293 |
| | <i>P. Georgi (Denmark), Å. Carlsson Tedgren, L. Persson, J. Graversen Johansen</i> | |
| 17:25 | Artificial-Intelligence based high precision Brachytherapy dose calculation | OC - 0294 |
| | <i>S. Quetin (Canada), F. Maleki, S. Abbasinejad Enger, S. Abbasinejad Enger</i> | |
| 17:35 | ESTRO-Elekta Brachytherapy Award: MRI-guided robotic needle insertion for prostate brachytherapy: proof of principle patient study | OC - 0295 |

M. Moerland (The Netherlands), A. van Lier, L. van Schelven, M. Rasing, M. Peters, E. Boskovic, R. Schokker, K. van Vliet-van den Ende, D. Kelder, J. Verkerk, S. van de Pol, J. Lagendijk, J. van der Voort van Zyp

Track: Brachytherapy

Mini-Oral: Gynaecology, urology & physics

Saturday, 13 May 2023 16:45 - 17:45

Stolz 1

Adaptive brachytherapy for cervical cancer in combined 1.5T MR/HDR suite: Impact of repeated imaging MO - 0296

K. van Vliet-van den Ende (The Netherlands), R.I. Schokker, A.A. De Leeuw, M.A. Moerland, P.S. Kroon, P.G. Hoogendoorn-Mulder, J.M. Roesink, R. Davila Fajardo, F. Van der Leij, I.M. Jurgenliemk-Schulz

Fast catheter trajectory planning for patient-tailored cervical cancer brachytherapy applicators MO - 0297

R. Straathof (The Netherlands), S. van Vliet-Pérez, I. Kolkman-Deurloo, R. Nout, B. Heijmen, L. Wauben, J. Dankelman, N. van de Berg

Prospective assessment of interstitial needles with TRUS in cervical cancer brachytherapy MO - 0298

J. Knoth (Austria), A. Sturdza, A. Zaharie, A. Winkler, H. Sperrer, J. Widder, N. Nesvacil, C. Kirisits, M.P. Schmid

Excellent long-term control with radioactive seeds in young patients with early prostate carcinoma MO - 0299

J.L. Guinot (Spain), V. Gonzalez-Perez, M.A. Santos, M.I. Tortajada, C. Guardino, J. Casanova, M. Nuñez, S. Canos, V. Cotanda, M. Vercher, M.A. Vico, L. Arribas

Salvage HDR interventional radiotherapy for prostate cancer after prostatectomy and irradiation MO - 0300

T. Soror (Germany), C. Melcherta, D. Rades, A.S. Merseburger, G. Kovács

HDR brachytherapy as an organ-sparing method of treatment of early penile cancer MO - 0301

J. Grepl (Czech Republic), I. Sirak, M. Vosmik, L. Kasaova, P. Paluska, D. Pohankova, J. Petera

Automatic applicator-based image registration workflow for image-guided adaptive brachytherapy MO - 0302

D. Neugebauer (Germany), S. Ecker, C. Kirisits, N. Eder-Nesvacil, P. Trnkova, D. Georg

X-ray source navigation using optical tracking for kypho intraoperative radiotherapy MO - 0303

S. Fremgen (Germany), V. García-Vázquez, C. Illana, E. Sperk, F. Schneider

Track: Physics

Mini-Oral: Audits and multi-centre studies

Saturday, 13 May 2023 16:45 - 17:45

Stolz 2

Privacy-preserving federated learning for radiotherapy applications MO - 0304

H. Hayati (The Netherlands), S. Heijmans, L. Persoon, C. Murguía, N. van de Wouw

Analysis of Performance and Motion Management Technique of the IROC Thoracic Phantom MO - 0305

H. Mehrens (USA), V. Panettieri, S. Kry

Use of plan complexity metrics for quality assurance in SBRT radiotherapy trials MO - 0306

R. Patel (United Kingdom), A. Main, P. Díez, C. Clark

Results of the remote Belgian dosimetry audits for lung SBRT	MO - 0307
<u>B. Yalvac (Belgium), N. Reulens, B. Reniers</u>	
AI-based radiotherapy treatment planning quality assurance: A multi-institutional study	MO - 0308
<u>P. Kalendralis (The Netherlands), S.M. Luk, R. Canters, D. Eyssen, A. Vaniqui, C. Wolfs, L. Murrer, W. van Elmpt, A.M. Kalet, A. Dekker, J. van Soest, R. Fijten, C.M. Zegers, I. Bermejo</u>	
Multicentre validation of the signal fading model of a new OSL film dosimeter	MO - 0309
<u>L. Delombaerde (Belgium), M. Caprioli, M. Both, L. Michielsens, E. Rault, I. Silvestre Patallo, A. Douralis, I. Billas, M. Hussein, P. Leblans, D. Vandenbroucke, C.M. Leenders, W. Crijns</u>	
In-vitro effects of relevant clinical radiotherapy regimes on Cardiac Implanted Electrical Devices	MO - 0310
<u>S. Manley (United Kingdom), A. Fenwick, M. Fraser, M. Lowrey, N. West</u>	
Radiotherapy-related CIEDs dysfunctions in the Lille University Hospital remote monitored patients	MO - 0311
<u>M. Noeuvéglise (France), L. Finat, C. Kouakam, C. Marquié, D. Klug, T. Lacormerie, E. Rault, X. Mirabel, L. Guédon-Moreau</u>	

Track: RTT

Poster Discussion: Technical improvements in radiotherapy practice

Saturday, 13 May 2023 16:45 - 17:45

Business Suite 1-2

Audit of prostate cancer planning CT rescan rate and value	PD - 0312
<u>S. Alexander (United Kingdom), H. McNair, U. Oelfke, C. Ockwell, A. Tree</u>	
Time analysis of CBCT-guided online adaptive radiotherapy in Prostate cancer treatment workflow	PD - 0313
<u>C. Votta (Italy), A. Boschetti, M. Aquilano, F. Catucci, A. D'aviero, P. Gaias, F. Gruosso, M. Iezzi, M. Marras, S. Menna, D. Piccari, E. Pilloni, D. Piro, F. Preziosi, F. Quaranta, A. Re, N. Ulgheri, V. Verusio, V. Valentini, D. Cusumano, G.C. Mattiucci</u>	
Defining PTV margins for dose escalated, hypofractionated radiotherapy for rectal cancer.	PD - 0314
<u>L. Devlin (United Kingdom), S. O'Cathail, G. Marshall, C. Hanna, A. Paterson, A. Duffton</u>	
Comparison of head-and-neck treatment plans on MR-Linac versus CBCT-Linac.	PD - 0315
<u>R. Bouwmans (The Netherlands), M. Schoenmakers, N. Raaijmakers, M. De Ridder, M. Philippens</u>	
Deep learning tumor segmentation for target delineation in glioblastoma using multi-parametric MRI	PD - 0316
<u>M. Hannisdal (Norway), D. Goplen, S. Alam, J. Haasz, L. Oltedal, M.A. Rahman, C.B. Rygh, S.A. Lie, A. Lundervold, M. Chekenya</u>	
Introduction of AI segmentation to drive improvements in Breast Cancer radiotherapy	PD - 0317
<u>A. Wowk (United Kingdom)</u>	
Dosimetric impact of setup errors in single-isocenter VMAT radiosurgery for brain metastases	PD - 0318
<u>D. Panizza (Italy), V. Faccenda, S. Trivellato, P. Caricato, V. Pisoni, R. Lucchini, E. De Ponti, S. Arcangeli</u>	

Feasibility of a mobile surface-guided camera-system for non-isocentric Total Body Irradiation	PD - 0319
<u>D. Sakarli (Germany)</u> , V. Batista, V. Batista, O. Schramm, B. Dömer	
Using CBCT-based adaptive radiotherapy to implement a no-simulation treatment pathway for palliation	PD - 0320
<u>X. Ray (USA)</u> , A. Bruggeman, K. Moore	
Using the axillary vein & artery to validate metrics for high tangents within the POSNOC trial	PD - 0321
<u>R. Butt (United Kingdom)</u> , R. Patel, C. Brooks, G. Jackson, D. Dodwell, E. Miles, A. Goyal	
Automated VMAT gating for left-sided breast DIBH: few breathholds and small position variations	PD - 0322
<u>S. Huijskens (The Netherlands)</u> , P. Granton, K. Fremeijer, C. van Wanrooij, K. Offereins-van Harten, S. Schouwenaars-van den Beemd, B. Heijmen, J. Penninkhof	
A pulmonary vein atlas for radiotherapy planning	PD - 0323
<u>G. Walls (United Kingdom)</u> , C. McCann, P. Ball, K. Atkins, R. Mak, A. Bedair, J. O'Hare, J. McAleese, C. Harrison, K. Tumelty, C. Crockett, S. Black, C. Nelson, J. O'Connor, A. Hounsell, C. McGarry, K. Butterworth, A. Cole, S. Jain, G. Hanna	

Track: Physics

Poster Discussion: Automation and machine learning

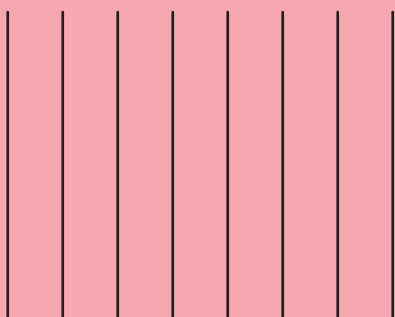
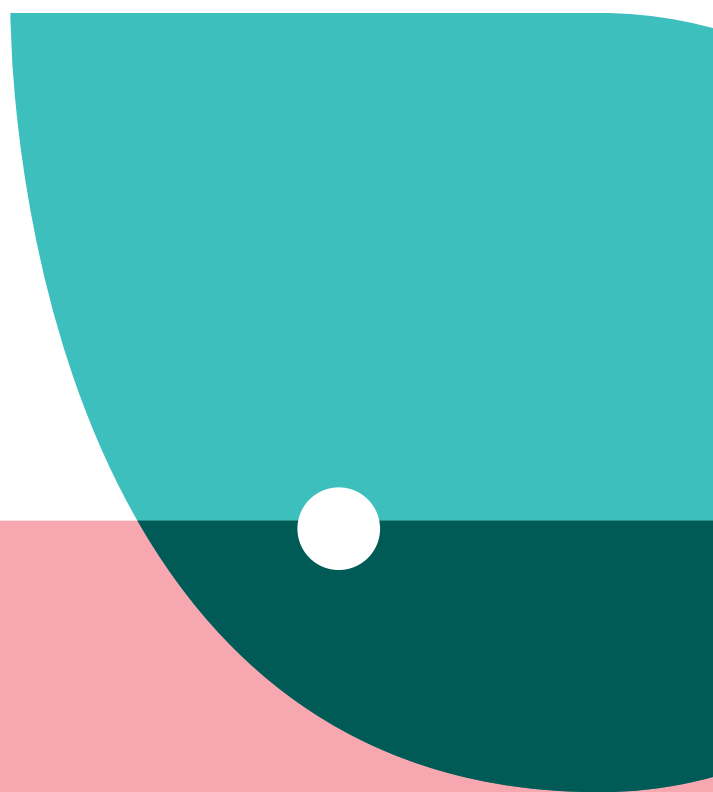
Saturday, 13 May 2023 16:45 - 17:45

Business Suite 3-4

Automated MR-Only RT for H&N cancer: synthetic CTs, autocontouring and automated treatment planning	PD - 0324
<u>S. Petit (The Netherlands)</u> , S. Kaushik, L. Rusko, C. Cozzini, B. Deák-Karancsi, V. Czipczer, B. Kolozsvári, K. Hideghéty, A. Frontó, B. Maros, J. Kleijnen, J. Wyatt, H. McCallum, G. Verduijn, F. Wiesinger, J. Hernandez-Tamames, M. Capala	
unedited deep-learning based OARs are suitable for rigorous head and neck treatment planning	PD - 0325
<u>J. Koo (USA)</u> , J.J. Caudell, K. Latifi, E.G. Moros, V. Feygelman	
Alternative DL segmentation approaches for clinical partially-labeled HN data: transformers or Unet?	PD - 0326
<u>L. Cubero Gutiérrez (Spain)</u> , L. Cubero Gutiérrez, J. Castelli, R. de Crevoisier, O. Acosta, J. Pascau	
Clinical benefits of multi-modality gross tumor volume auto-delineation in head and neck cancer	PD - 0327
<u>H. Bollen (Belgium)</u> , S. Willems, F. Maes, S. Nuyts	
Evaluation of the clinical use of a deep learning model for breast cancer treatment plan generation	PD - 0328
<u>N. Bakx (The Netherlands)</u> , H. Bluemink, E. Hagelaar, D. van Gruijthuijsen, J. van der Leer, T. van Nunen, M. van der Sagen, J. Theuws, C. Hurkmans	
Evaluation of a CT scanner based deep learning auto-contouring solution for prostate radiotherapy	PD - 0329
<u>M. Williams (United Kingdom)</u> , S. Berenato, O. Woodley, C. Möhler, E. Evans, A. Millin, P. Wheeler	
Clinical generalisability of a custom auto-contouring model for Prostate radiotherapy	PD - 0330
<u>Y. McQuinlan, T. Guerrero Urbano, D. Eaton, M. Battye, M. Gooding, M. Khan (United Kingdom)</u>	

- Automated dynamic trajectory radiotherapy planning using 4pi-IMRT path-finding - proof of concept PD - 0331
H.A. Loebner (Switzerland), J. Bertholet, S. Mueller, G. Guyer, D. Frei, W. Volken, O. Elicin, D.M. Aebersold, M.F.M. Stamparoni, M.K. Fix, P. Manser, P. Mackeprang
- Validation of relative beam spot position in a linear accelerator using a simple phantom PD - 0332
H.L. Riis (Denmark), A. Fietje, B.C. Buthler, A.S. Bertelsen, U. Bernchou, K.H. Engstrøm, L.B. Valdetaro, C. Brink
- Interpreting generalizability of automatic GTV segmentation in locally advanced cervical cancer PD - 0333
R. Rouhi (France), S. Niyoteka, A. Carré, S. Achkar, P. Laurent, M.B. BA, C. Veres, T. Henry, R. Sun, S. Espenel, C. Chargari, E. Deutsch, C. Robert
- Techniques to optimize auto-segmentation of small OARs in pediatric patients undergoing CSI PD - 0334
J. Tsui (Canada), M. Popovic, O. Ates, C. Hua, J. Schneider, S. Skamene, C. Freeman, S. Enger
- A comparison between 2D and 3D GAN as a supporting tool for rectum segmentation on 0.35 T MR images PD - 0335
M. Vagni (Italy), H.E. Tran, A. Romano, L. Boldrini, G. Chiloiro, G. Landry, C. Kurz, S. Corradini, M. Kawula, E. Lombardo, M.A. Gambacorta, L. Indovina, C. Belka, V. Valentini, L. Placidi, D. Cusumano

Sunday
14 May 2023



*Track: Interdisciplinary***Teaching Lecture: Bridging the gap between bulky tumours and radiotherapy: Spatially-fractionated radiotherapy**

Sunday, 14 May 2023 08:00 - 08:40

Schubert

Chair: Slavisa Tubin

08:00 Spatially-fractionated radiotherapy: Tumour-subvolumes, dose-delivery and clinical applications

SP - 0336

M. Mohiuddin (USA)

08:20 Partial tumor irradiation: radiobiological rational, indications and treatment outcomes

SP - 0337

S. Tubin (Austria)*Track: Radiobiology***Teaching Lecture: Radiation-induced cell death: A focus on ferroptosis**

Sunday, 14 May 2023 08:00 - 08:40

Lehar 4

Chair: Kerstin Borgmann

08:00 Radiation-induced cell death - focus on ferroptosis

SP - 0338

E. Moon (United Kingdom)*Track: Clinical***Teaching Lecture: Outcome measures for trials in radiation oncology**

Sunday, 14 May 2023 08:00 - 08:40

Hall A

Chair: Alexandra Gilbert

08:00 Outcome measures for trials in radiation oncology

SP - 0339

M. Buyse (Belgium)*Track: Clinical***Teaching Lecture: Challenging scenarios with oligometastatic SABRs - Where do we go now?**

Sunday, 14 May 2023 08:00 - 08:40

Plenary Hall

Chair: Claire Paterson

08:00 Challenging scenarios with oligometastatic SABRs - Where do we go now?

SP - 0340

S. Harrow (United Kingdom)*Track: Physics***Teaching Lecture: A leap into clinical practice: Accurate treatment planning in presence of metallic implants**

Sunday, 14 May 2023 08:00 - 08:40

Strauss 1

Chair: Bartosz Pawalowski

08:00 Photons

SP - 0341

A. Fogliata (Italy)

08:20 Protons

SP - 0342

M. Schwarz (USA)

*Track: Physics***Teaching Lecture: Effective expression of uncertainties - The hows, whys and don'ts**

Sunday, 14 May 2023 08:00 - 08:40

Lehar 1-3

Chair: Jennifer Dhont

-

08:00 Expression of uncertainties - The hows, whys and don'ts
W. Lechner (Austria)

SP - 0343

*Track: Brachytherapy***Teaching Lecture: The role of functional imaging in brachytherapy**

Sunday, 14 May 2023 08:00 - 08:40

Strauss 2

Chair: Frank-André Siebert

-

08:00 The role of functional imaging in brachytherapy
A. Datta (United Kingdom)

SP - 0344

*Track: RTT***Teaching Lecture: Global advancements in radiation therapist advanced practice**

Sunday, 14 May 2023 08:00 - 08:40

Strauss 3

Chair: Edward Farrugia Wismayer

-

08:00 Global advancements in radiation therapist advanced practice
N. Rozanec (Canada)

SP - 0345

*Track: Interdisciplinary***Joint Symposium: ESTRO-EORTC: Next generation clinical trial design: A multidisciplinary effort**

Sunday, 14 May 2023 08:45 - 10:00

Schubert

Chair: Joost Verhoeff

-

Chair: Stephanie Tanadini-Lang

-

08:45 Benefits and challenges of design and conduct of radiation oncology clinical trials
C. Faive-Finn (United Kingdom)

SP - 0346

09:03 How to design STAMPEDE v2.0 for radiation oncology
N. James (United Kingdom)

SP - 0347

09:21 Radiation oncology quality assurance 2.0
E. Clementer (Belgium)

SP - 0348

09:39 Value of patient involvement in clinical trial design
H. Bulbeck (United Kingdom)

SP - 0349

*Track: Radiobiology***Symposium: Senescence in cancer and stromal cells: Opportunities to improve radiotherapy response**

Sunday, 14 May 2023 08:45 - 10:00

Lehar 4

Chair: Randi Syljuåsen

-

Co-Chair: TBC

-

08:45 Effects of irradiation on lung cancer associated fibroblasts (CAFs) SP - 0350

I. Martinez-Zubiaurre (Norway), R. Berzaghi, K. Lode, T. Hellevik09:03 Novel mechanisms and biomarkers associated to therapy-induced senescent cells SP - 0351
TBC

09:21 Targeting radiation-induced senescence to augment glioblastoma therapy SP - 0352

S. Burma (USA)

09:39 Effects of irradiation on Head and Neck Squamous Cell Carcinoma derived CAFs SP - 0353

M. Ansems (The Netherlands), R. Peters, V. Mekers, A. Beerkens, J. Honings, W. Weijs, G. Adema, J. Bussink, J. Kaanders*Track: Clinical***Symposium: How to optimise radiotherapy and immunotherapy combination**

Sunday, 14 May 2023 08:45 - 10:00

Plenary Hall

Chair: Jonathan Moyal

-

Co-Chair: Joris Elbers

-

08:45 What is the clinical impact so far from IO/radiotherapy combination? SP - 0354

P. Bonomo (Italy)

09:03 Towards precision use of radiation therapy with immunotherapy SP - 0355

S. Demaria (USA)

09:21 Low dose radiotherapy reverses resistance to immunotherapy: From bench to bedside SP - 0356

F. Herrera (Switzerland)

09:39 Radiomics to predict outcomes of patients treated with immunotherapy combinations SP - 0357

P. Lambin (The Netherlands)*Track: Clinical***Joint Symposium: ESTRO-EANO: Changing the landscape for multidisciplinary treatment of brain metastases**

Sunday, 14 May 2023 08:45 - 10:00

Hall A

Chair: Matthias Guckenberger

-

Chair: TBC

-

08:45 Pre- vs post-operative radiotherapy for brain metastases SP - 0358

J. Biau (France)

09:03 Up-front vs. delayed radiotherapy in the context of new approaches to immunotherapy SP - 0359

TBC

09:21	Whole brain radiotherapy vs radiosurgery for multiple brain metastases <u>J. Zindler (The Netherlands)</u>	SP - 0360
09:39	Hippocampus sparing for PCI and WBI - Ready for primetime? <u>J.L. Lopez Guerra (Spain)</u>	SP - 0361

*Track: Physics***Joint Symposium: ESTRO-ESR: Quantification of functional MRI parameters: New opportunities in radiotherapy?**

Sunday, 14 May 2023 08:45 - 10:00		Strauss 1
	Chair: Daniela Thorwarth	-
	Chair: Andrea Rockall	-
08:45	Functional MRI: Introduction and applications in radiotherapy <u>F. Mahmood (Denmark)</u>	SP - 0362
09:03	Quantification of functional MRI parameters from k-space data <u>S. Stoöcklein (Germany)</u>	SP - 0363
09:21	Quantification of functional MRI parameters using deep learning <u>A. Rulseh (Czechia)</u>	SP - 0364
09:39	Novel techniques for quantitative parameter estimation in moving targets <u>P. van Houdt (The Netherlands)</u>	SP - 0365

*Track: Physics***Joint Symposium: ESTRO-AAPM: Big data, big headache**

Sunday, 14 May 2023 08:45 - 10:00		Lehar 1-3
	Chair: Catharine Clark	-
	Chair: Kristy Brock	-
08:45	Dealing with legacy treatment data <u>L. Wilson (USA), A. Bryce-Atkinson, F. Pirlepesov, F. Xie, A. Faught, M. Aznar, M. van Herk, E. Vasquez Osorio</u>	SP - 0366
09:00	Dealing with follow-up images <u>A. Davey (United Kingdom)</u>	SP - 0367
09:15	Dealing with public datasets <u>B. Anderson (USA)</u>	SP - 0368
09:30	Dealing with national datasets <u>L. Refsgaard (Denmark)</u>	SP - 0369
09:45	Dealing with reconstructed dose data <u>C. Owens (USA)</u>	SP - 0370
09:53	Dealing with international datasets <u>S. Ecker (Austria)</u>	SP - 0371

*Track: Brachytherapy***Symposium: Risk-adapted personalised brachytherapy**

Sunday, 14 May 2023 08:45 - 10:00		Strauss 2
	Chair: Marisol De Brabandere	-
	Co-Chair: Artur Chyrek	-
08:45	Dose (de)escalation in advanced tumours: Lessons from EMBRACE I and perspectives <u>M. Schmid (Austria)</u>	SP - 0372

09:10	Tumour biology to guide brachytherapy delivery and combination therapies <i>S. Chopra (India)</i>	SP - 0373
09:35	Non-invasive tumour characterisation: Perspectives for brachytherapy <i>C. Robert (France), S. Niyoteka, R. Rouhi, R. Sun, S. Espenel, C. Chargari, E. Deutsch</i>	SP - 0374

*Track: RTT***Panel Discussion: Evolutions in radiation therapist professional development**

Sunday, 14 May 2023 08:45 - 10:00

Strauss 3

Chair: Philipp Scherer

-

08:45	Michelle Leech	SP - 0375
08:50	Aileen Duffton	SP - 0376
08:55	Nicole Harnett	SP - 0377
09:00	Discussion	SP - 0378

*Track: Clinical***Mini-Oral: Paediatrics - AYA**

Sunday, 14 May 2023 09:00 - 10:00

Stolz 1

Clinical Outcome of AYAs with Head and Neck Sarcomas after Pencil Beam Scanning Proton Therapy <i>M. Vazquez (Switzerland), A. Ilundain, D. Leiser, B. Bachtiary, A. Pica, U.L. Kliebsch, D.C. Weber</i>	MO - 0379
Proton pencil beam scanning in pediatric posterior fossa tumors: a European treatment planning study <i>L. Toussaint (Denmark), L. Muren, F. Cerron Campoo, F. Charlwood, M. Fager, A. Goedgebeur, F. Goudjil, I. Kristensen, P. Laegdsmand, A. Mirandola, C. Moignier, E. Petterson, S. Plaude, R. Righetto, A. Vestergaard, W. Matysiak</i>	MO - 0380
(A)symptomatic MRI changes after proton therapy; the Dutch national cohort of pediatric CNS tumors <i>J. Rutgers (The Netherlands), A. Bannink-Gawryszuk, P. van Rossum, M. Lequin, J. Maduro, J. Maduro, H. van der Weide, M. Heesters, M. Heesters, B. Hoebe, A. van der Heide, S. Plasschaert, C. Gidding, E. de Vos-Kerkhof, L. Meijer, J. van der Lugt, A. Schouten-van Meeteren, W. Matysiak, E. Seravalli, H. Langendijk, E. Hoving, G. Janssens</i>	MO - 0381
Risk factors for enteral feeding in young head and neck cancer patients during proton beam therapy <i>M. Li (United Kingdom), A. France, P. Sitch, L. Lee, J. Price, D. Saunders, E. Smith, D. Thomson, N. Thorp, S. Pan</i>	MO - 0382
Risk factors associated with acute skin toxicities in patients treated with Proton Beam Therapy <i>K. Oguejiofor (United Kingdom), S. Gaito, A. France, S. Pan, M. Aznar, P. Sitch, M. Merchant, E. Smith, J. Richardson</i>	MO - 0383

Dosimetric impact of bowel filling during proton therapy for paediatric abdominal neuroblastoma MO - 0384

A. Ghica (United Kingdom), D. Botnariuc, M. Hussein, V. Rompokos, D. D'Souza, M. Gaze, J. Gains, P. Lim, C. Veiga

Relapse patterns after local and residual metastatic irradiation in high risk neuroblastoma MO - 0385

E. Recalde (Spain), M. Ramos, S. Micó, J. Giralt

MRI-based inter- and intra-fraction motion of the spleen/pancreatic tail in neuroblastoma patients MO - 0386

F. van Ommen (The Netherlands), G.A. le Quellenec, M.E. Willemsen-Bosman, M.M. van Noesel, E. Seravalli, P.S. Kroon, G.O. Janssens

Track: RTT

Mini-Oral: Modifications in IGRT

Sunday, 14 May 2023 09:00 - 10:00

Stolz 2

Markerless MRI-only workflow for primary prostate radiotherapy MO - 0387

M. Buijs (The Netherlands), N. de Munk, S. Takken, P. Remeijer, U. van der Heide

Prostate MR-only radiotherapy: are fiducial markers necessary? MO - 0388

R. Brooks-Pearson (United Kingdom), L. O'Connor, K. Skehan, D. Redding, E. Wilkins, S. Taylor, R. Pearson, J. Wyatt

Self-learning GAN based synthetic CT generation: unlocking CBCT-based adaptive radiotherapy MO - 0389

T. Roque (France), A. Oumani, E. Delasalles, N. Paragios, P. Fenoglietto

Evaluating intra-breath-hold variation in IMAT breast boost patients delivered in DIBH MO - 0390

C. Maguire (United Kingdom), S. Moinuddin, A. Webster, R. Simoes, S. Wickers

Virtual Unenhanced Dual Energy CT improves position verification compared to contrast CT MO - 0391

L. Bulthuis (The Netherlands), M. Afifah, K. Goudschaal, D. den Boer, T. Rosario, J. Verbeek, A. Bel, Z. van Kesteren

Margin reduction while preserving coverage of axillary lymph node CTV in breast cancer IMPT MO - 0392

J. Jacobs (The Netherlands), S. Bosma, E. Fleury, S. Habraken, R. Louwe

VMAT-based prostate radiotherapy treatment using online triggered imaging (TI) MO - 0393

L. Nguyen (Australia), T. Vu

RTT training in advance of online-adaptive using web-based contouring tools MO - 0394

A. Beardmore (United Kingdom), R. Brooks-Pearson, K. Pilling

Track: Clinical

Poster Discussion: Head & neck

Sunday, 14 May 2023 09:00 - 10:00

Business Suite 1-2

Management of 80 Sinonasal Undifferentiated Carcinomas. A french retrospective multicentre study PD - 0395

P. Pouvreau, J. Coelho, C. Rumeau, O. Malard, R. Garrel, J. Thariat, N. Vulquin, C. Castain, L. de Gabory, C. Dupin (France)

Novel Enhancement of Pulsing involved-field Radiotherapy and CPI for LAHNSCC in elderly patients. PD - 0396

A. Raben (USA), O. Russial, S. Park, N. Hockstein

Clinical outcome of lung-only oligometastatic HNSCC patients treated with SBRT: Update results PD - 0397

V. Salvestrini (Italy), I. Bonaparte, N. Bertini, C. Mattioli, C. Bellini, C. Becherini, I. Desideri, P. Garlatti, M. Banini, L. Zisca, L. Livi, P. Bonomo

Clinical outcomes of Thyroid Sparing Radical Chemoradiation in the treatment of Head and Neck cancer PD - 0398

V.K.V. Gade (India), A. Bahl, A. Rastogi, A.S. Oinam, S. Ghoshal, N.K. Panda

Timing of Response Assessment PET CT in OPSCC Post Treatment and Salvage Neck Dissection Rates PD - 0399

F. Williams (United Kingdom), N. Morley, D. Smith, C. Passant, S. Quine, S. Berry, M. Doddi, D. Owens, A. Harris, T. Rackley, R. Webster, E. Evans, M. Evans, N. Palaniappan

External validation of a PET radiomic model predicting outcome after RT for oropharyngeal cancer PD - 0400

M. Mori (Italy), C. Deantoni, G. Palazzo, M. Olivieri, E. Spezi, A. Chiara, M. Picchio, A. Del Vecchio, N.G. Di Muzio, C.A. Fiorino, I. Dell'Oca

The effect of dose to the brain on early self-reported neurocognition; does low dose matter? PD - 0401

F. Vaassen (The Netherlands), D. Hofstede, C.M. Zegers, J.B. Dijkstra, F. Hoebers, I. Compter, W. van Elmpt, D.B. Eekers

TOAST Classification of Ischemic Stroke in NPC Post-Radiotherapy: A Nationwide Cohort Study PD - 0402

T. Lin (Taiwan), C. Lin, Y. Lai

Systematic review of NTCP models for radiation-induced toxicities in head and neck cancer PD - 0403

M. Tambas (The Netherlands), T. Takada, E. Clementel, A.M. Leeuwenberg, M. Sharabiani, J.A. Damen, Z. Dunias, J.F. Nauta, K.G. Moons, J.A. Langendijk, E. Schuit

A multicentre UK review of toxicity after radical (chemo)radiotherapy for nasopharyngeal cancer PD - 0404

R. Rieu (United Kingdom), R. Prestwich, A. Swan, D. Noble, D. Srinivasan, K. Chiu, A. Scott, L. Dixon, R. Mendes, A. Thompson, A. Pilar, R. Li, S. Khan, C. Nutting, A. McPartlin

3D-Resnet: a model for lymph node metastasis recognition from HNSCC on pre-treatment tomography PD - 0405

Y. Lin, C. Lin, H. Hsieh, J. Chen, W. You (Taiwan), Y. Hsu

Unsupervised learning of biometric features predicts metastatic head and neck cancer progression PD - 0406

R.Z. Ye (Canada), H. Bahig, P. Wong

Track: Brachytherapy

Poster Discussion: Clinical Brachytherapy

Sunday, 14 May 2023 09:00 - 10:00

Business Suite 3-4

HDR brachytherapy for Cervical Cancer: Evolving anaesthetic technique to improve patient experience PD - 0407

D. Gregory (United Kingdom), T. Christmas, S. Prewett, K. Bradshaw, J. Latimer, S. Duke, L.T. Tan

- Effects of simulated systematic applicator displacement in intra-cavitary HDR cervical brachytherapy PD - 0408
O. Houlihan (United Kingdom), M. Byrne, O. McLaughlin, G. Workman, S. Esteve, U. McGivern, A. Drake, E. Baird, K. Prise, A. Hounsell, S. Jain
- Radio-chemotherapy and interventional radiotherapy in vaginal carcinoma: a monocentric experience PD - 0409
V. Lancellotta (Italy), G. Macchia, B. Fionda, R. Autorino, M. Campitelli, M. De Angeli, G. Garganese, B. Gui, L. Russo, S. Fragomeni, G. Ferrandina, M.A. Gambacorta, L. Tagliaferri
- The benefits of CT-guided freehand interstitial brachytherapy for cervical cancer PD - 0410
X. Yang (China), Z. Li, J. Fu
- Intra-applicator target volume and OAR dose variation in MRI guided adaptive BT for cervix cancer PD - 0411
V. Sim (United Kingdom), R. Gonzalez Vaz, E. Jones, B. Taylor, I. White
- Impact of vaginal dilators in G2-late vaginal complications in brachytherapy for endometrial cancer. PD - 0412
A. Rovirosa (Spain), Y. Zhang, F. Noorian, R. Abellana, R. José, A. Herreros, G. Antelo, A. Torne
- Sexual health and vaginal toxicity after chemo-radiation and brachytherapy in cervical cancer PD - 0413
J. Conway, J. Hanuschak, L. Conroy, K. Han, M. Milosevic, J. Lukovic, S. Ferguson, A. Salman, A. Santiago, A. Rink, J. Croke (Canada)
- ERAS pathway for gynecologic cancer patients receiving brachytherapy: A prospective clinical trial PD - 0414
L. Andring (USA), K. Corrigan, N. Bailard, M. Rooney, M. Domingo, J. Varkey, T. Foster-Mills, B. Fellman, L. Lin, A. Jhingran, L. Colbert, P. Eifel, A. Klopp, M. Joyner
- Steerable needles enable HDR prostate BT for patients with pubic arch interference PD - 0415
M. de Vries (The Netherlands), M. Christianen, L. Luthart, K. de Vries, I. Kolkman-Deurloo, J. van den Dobbelaar
- Alternative reirradiation salvage-radiotherapy for recurrent prostate cancer after Idr-brachytherapy PD - 0416
O. Muñoz Muñoz (Spain), E. Gomis Sellés, B.D. Delgado León, J.L. López Guerra, P. Cabrera Roldan
- Multisector dosimetric analysis to determine in-vivo dosimeter positions in prostate brachytherapy. PD - 0417
O. Houlihan (United Kingdom), S. Esteve, O. McLaughlin, G. Workman, M. Byrne, K. Prise, A. Hounsell, D. Mitchell, S. Jain
- Interstitial and surface mold brachytherapy for head and neck cancers- an institutional experience PD - 0418
B. Devnani (India), P. Pareek, J. Joseph, A. Mohan, I. MP, M. Punchankandy, R.K. Vyas, A. Solanki, A. Chugh, D.R. Poonia, J.R. Vishnoi, P. Sethi, S. Misra

*Track: Interdisciplinary***Proffered Papers: Translational outputs from clinical trials**

Sunday, 14 May 2023 10:30 - 11:30

Schubert

- 10:30 Are we so different? An international risk comparison of photon vs. proton clinical trial QA OC - 0419
P. Taylor (USA), C. Clark, J. Lehmann, M. Nakamura, H. Palmans, L. Hoffman, S. Kelly, E. Miles, D. Moller, C. Corning, S. Kry, K. Akbarov, M. Stock, M. Aznar, R. Effeney, E. Clementel, S. Patel, P. Kazansteve, M. Carrara, B. Healy
- 10:40 Assessing plan quality in the 'PLATO anal cancer trial 5' pilot phase with automated planning OC - 0420
M. Barrell (United Kingdom), N. Abbott, R. Adams, M. Hawkins, D. Sebag-Montefiore, A. Millin, P. Wheeler
- 10:50 Development and QA of IGRT procedures for node-positive prostate cancer patients in the PEARLS trial OC - 0421
O. Naismith (United Kingdom), S. Alexander, A. Webster, E. Miles, S. Hassan, J. Murray
- 11:00 Treatment planning compliance rates in paediatric clinical trials: preliminary report from QUARTET OC - 0422
S. Kelly (Belgium), A. Turcas, C. Corning, T. Boterberg, L. Gandola, M. Gaze, G. Horan, L. Padovani, H. Mandeville
- 11:10 Critical role of QA in a national SBRT rollout program for pelvic & lower abdominal oligometastases OC - 0423
P. Diez (United Kingdom), C. Brooks, A. Tree, M. Hatton, A. Haridass, N. van As, E.M. Dunne, J. Conibear, K. Aitken, R. Muirhead, C. Peedell, F. McDonald
- 11:20 ROAM (EORTC 1308) trial – impact of prospective trial reviews on protocol adherence OC - 0424
H. Mayles (United Kingdom), B. Haylock, M. Jenkinson

*Track: Radiobiology***Proffered Papers: Tumour radiobiology**

Sunday, 14 May 2023 10:30 - 11:30

Lehar 4

- 10:30 ATR inhibition as a novel radiosensitization strategy for glioblastoma OC - 0425
B. Mukherjee (USA), S. Kanji, N. Tomimatsu, J. Floyd, S. Burma
- 10:40 Immunomonitoring in prostate cancer patients treated with 3 different radiotherapy strategies OC - 0426
M. Bottero (Italy), A. Faiella, B. Palermo, I. Sperduti, S. Masi, M.L. Foddai, I. Cordone, P. Nisticò, G. Sanguineti
- 10:50 Targeting Cyclin-Dependent Kinase 1 to Radiosensitize Pancreatic Cancer OC - 0427
A. Wolfe (USA), S. Van Matre, R. Eluvathingal, O. Zuniga, H. Rodrigues, F. Xia
- 11:00 Dietary fibre both radiosensitises tumours and spares intestines from acute radiation toxicity OC - 0428
A. Kiltie (United Kingdom), C.K. Then, S. Paillas, D. Sescu, R. Saito, X. Wang, M. Misheva, J. McCullagh, K. Foster, K. Vallis
- 11:10 Interplay of replication stress and immune signaling drives radioresistance in BRCA1 mutated cells OC - 0429
S. Classen (Germany), E. Rahlf, J. Jungwirth, S. Gehre, M. Rückert, H. Pospiech, K. Rothkamm, U.S. Gaipl, C. Petersen, K. Borgmann

- 11:20 Class I histone deacetylase inhibitor Entinostat sensitises prostate cancer cells to radiation OC - 0430

B. McCullough (United Kingdom), J. Manley, S. McDade, M. LaBonte Wilson

Track: Clinical

Proffered Papers: Genito-urinary

Sunday, 14 May 2023 10:30 - 11:30

Plenary Hall

- 10:30 Randomised phase II trial of adaptive image guided bladder radiotherapy: patient reported outcomes OC - 0431
R. Huddart (United Kingdom), A. Birtle, K.C. Cheung, A. Choudhury, F. Foroudi, H. Gribble, C. Griffin, S. Hafeez, E. Hall, A. Henry, B. Hindson, R. Lewis, D. McLaren, H. McNair, A. Nikapota, A. Omar, O. Parikh, L. Philipps, I. Syndikus, M. Varughese, C. Vassallo-Bonner, A. Webster
- 10:40 Patterns of Recurrence & Outcomes in Bladder Cancer Treated with Radiotherapy & Radiosensitisation OC - 0432
T. Lodhi (United Kingdom), Y.P. Song, T. Elumalai, A. Hudson, J. Logue, J. Wylie, W. Croxford, M. Serra, A. Tran, R. Conroy, P. Hoskin, A. Choudhury
- 10:50 GETUG-AFU 22 phase II randomized trial : final results on clinical outcomes with immediate SRT OC - 0433
I. Latorzeff (France), S. Guerif, F. Castan, E. Meyer, S. Supiot, E. Lagneau, E. Deniaud-Alexandre, P. Ronchin, A. Benyoucef, L. Cartier, H. Hamidou, A. Hasbini, G. Crehange, P. Pommier, A. Bareille Saint Gaudens, M. Zibouche, E. Gross, G. Ploussard, L. Salomon, P. Sargos
- 11:00 Long -term results of OLIGOPELVIS, a Phase II Trial of pelvic RT in Oligorecurrent Prostate Cancer OC - 0434
S. Supiot (France), L. Vaugier, D. Pasquier, X. Buthaud, N. Magné, D. Peiffert, P. Sargos, G. Crehange, P. Pommier, G. Loos, A. Hasbini, I. Latorzeff, M. Silva, F. Denis, J. Lagrange, C. Morvan, L. Campion, A. Blanc-Lapierre, J. Paul
- 11:10 Multi-institutional nomogram for PSMA-PET based salvage radiotherapy in recurrent prostate cancer OC - 0435
C. Zamboglou (Germany), K. Ferentinos, A. Arnoux, A. Janbain, I. Strouthose, A. Farolfi, S. A. Koerber, J. C. Peecken, M. Vogel, A. Vrachimis, S. K. B. Spohn, M. Shelan, A. Grosu, S. Kroeze, M. Guckenberger, S.F. Fanti, C. Belka, G. Hruby, S. Scharl, T. Wiegel, C. Henkenberens, L. Emmett, N.S. Schmidt-Hegemann
- 11:20 A Delphi consensus study on SBRT for oligometastatic renal cell carcinoma (RCC) an ESTRO ACROP study OC - 0436
G. Marvaso (Italy), M. Zaffaroni, S. Siva, D. Pasquier, M.G. Vincini, G. Corrao, B.A. Jerezek-Fossa, O.B.O.T. ESTRO ACROP group

Track: Clinical

Proffered Papers: Haematology - CNS

Sunday, 14 May 2023 10:30 - 11:30

Hall A

- 10:30 Mature outcomes for TROG 99.03: RCT of RT +/- (R)-CVP in Stage I-II Follicular Lymphoma OC - 0437
M. MacManus (Australia), J. Seymour, D. Roos, P. O'Brien, A. Macann, R. Tsang, S. Davis, S. Shrestha, D. Joseph, M. Gandhi, J. Tobin
- 10:40 Patterns of failure in 559 primary central nervous system lymphoma patients treated from 1983-2020 OC - 0438
K. Tringale (USA), J. Yahalom, M. Scordo, C. Grommes, B. Imber

10:50	Consolidation patterns and associated outcomes for a large cohort of primary CNS lymphoma patients <i>B. Imber (USA), K. Tringale, M. Scordo, J. Yahalom, C. Grommes</i>	OC - 0439
11:00	Long-term results from a phase 1 trial of spine SBRT in inoperable patients with cord compression <i>A. Ghia (USA), N. Guha-Thakurta, J. Li, S. Settle, M. McAleer, T. Briere, C. Tatsui, P. Brown, T. Beckham, C. Wang, D. Yeboa, E. Chang, L. Rhines</i>	OC - 0440
11:10	Pre-operative stereotactic radiosurgery for brain metastases: a prospective observational study <i>R. Chelvarajah (Australia), M. Pinkham, M. Foote, M. Shanker, B. Hall, S. Olson, T. Watkins, A. Bernard, M. Huo</i>	OC - 0441
11:20	Low incidence of RT-induced MRI changes and stable QoL following proton irradiation <i>C. Luetgendorf-Caucig (Austria), M. Pelak, B. Flechl, P. Fossati, M. Stock, C. Reschl, P. Georg, E. Hug</i>	OC - 0442

*Track: Physics***Proffered Papers: CT reconstruction and synthetic CTs**

Sunday, 14 May 2023 10:30 - 11:30		Strauss 1
10:30	Full 3D CT reconstruction from partial bi-planar projections using a deep generative model <i>A. Cafaro (France), T. Henry, J. Colnot, Q. Spinat, A. Leroy, P. Maury, A. Munoz, G. Beldjoudi, A. Oumani, I. Chabert, L. Hardy, R. Marini Silva, C. Robert, V. Lepetit, N. Paragios, E. Deutsch, V. Grégoire</i>	OC - 0443
10:40	Clinical feasibility of synthetic CTs for adaptive proton therapy in lung cancer patients <i>D. Hattu (The Netherlands), V. Taasti, S. Peeters, J. van Loon, A. van der Salm, D. De Ruysscher, R. Nilsson, S. Andersson, E. Engwall, M. Unipan, R. Canters</i>	OC - 0444
10:50	Could mechanical ventilation be safely combined with lung functional avoidance radiotherapy ? <i>L. Vander Veken (Belgium), G. Van Ooteghem, X. Geets</i>	OC - 0445
11:00	Evaluation of prostate synthetic CTs from MRI using 2D cycle-GAN with multicentric learning <i>B. Texier (France), C. Hémon, E. Collot, P. Lekieffre, S. Tahri, H. Chourak, P. Greer, J. Dowling, A. Barateau, C. Lafond, R. de Crevoisier, J. Castelli, J. Nunes</i>	OC - 0446
11:10	CBCT-based synthetic CT scans for tumor delineation of bone metastases in the pelvis <i>N. Hoffmans-Holtzer (The Netherlands), A. Magallon-Baro, I. de Pree, C. Slagter, M. Olofsen-van Acht, M. Hoogeman, S. Petit</i>	OC - 0447
11:20	Bridging the gap between radiology and histology through AI-driven registration and reconstruction <i>A. Leroy (France), A. Cafaro, V. Lepetit, N. Paragios, E. Deutsch, V. Grégoire</i>	OC - 0448

*Track: Physics***Proffered Papers: Toxicity modelling**

Sunday, 14 May 2023 10:30 - 11:30		Lehar 1-3
10:30	Deep learning based NTCP-modelling using 3D-information for predicting late xerostomia <i>H. Chu (The Netherlands), S.P. de Vette, H. Neh, N.M. Sijtsema, R.J. Steenbakkers, C.D. Fuller, J.A. Langendijk, P.M. van Ooijen, L.V. van Dijk</i>	OC - 0449

10:40	Dose-effect relationship for the medulla and dysphagia studied with causal inference methods <i>E.M. Vasquez Osorio (United Kingdom), D. Ganderton, A. Abravan, G. Price, J. Price, L.W. Lee, A. McWilliam, M. Sperrin, M. van Herk</i>	OC - 0450
10:50	NTCP reduction in head-and-neck cancer VMAT using robust planning <i>M. van Schie (The Netherlands), A. Petoukhova, L. Rossi, L. Kwakkel-Huizenga, S. Hutschemaekers, B. Heijmen</i>	OC - 0451
11:00	Identification of syndromes from temporal evolution of symptoms in cervix cancer patients <i>M. Pelizzola (Denmark), S. Spampinato, S. Chopra, R. Nout, K. Kirchheiner, K. Tanderup</i>	OC - 0452
11:10	Dosimetry Predictors of Acute Skin Reactions after Whole Breast Radiotherapy <i>A. Cicchetti (Italy), P. Mangili, A. Fodor, M. Mori, A. Chiara, C. Deantoni, M. Pasetti, G. Palazzo, M.G. Ubeira Gabellini, T. Rancati, A. Del Vecchio, N.G. Di Muzio, C. Fiorino</i>	OC - 0453
11:20	Changes in prostate planning over a decade: radiobiological impact in rectum toxicity <i>P. Gallego Franco (Spain), J. Pérez-Alija, C. Ansón, N. García, N. Tejedor, N. Jornet, H. Vivancos, F. Leo, A. Ruiz, M. Barceló, A. Domínguez, P. Carrasco</i>	OC - 0454

Track: Brachytherapy

Proffered Papers: Breast, GI and paediatrics

Sunday, 14 May 2023 10:30 - 11:30

Strauss 2

10:30	Salvage HDR interventional radiotherapy for Chest wall recurrences after mastectomy and irradiation <i>T. Soror (Germany), M. Banys-Paluchowski, C. Melcherta, K. Muras, M. Xie, D. Rades, J. Rody, G. Kovács</i>	OC - 0455
10:40	Dosimetric evaluation of accelerated partial breast irradiation using SAVI & TRIUMPH-T trial regimen <i>U. Abraham (USA), R. Tolakanahalli, M. Morcos, T. Romaguera, M.A. Rodrigues, J. Ramirez, F. Perk, A. Gutierrez, V. Chaswal</i>	OC - 0456
10:50	Contact X-ray Brachytherapy as a sole treatment in selected patients with early rectal cancer <i>N. Than (United Kingdom), A.S. Myint, D.M. Pritchard</i>	OC - 0457
11:00	Contact x-ray radiotherapy (Papillon) for organ preservation in rectal cancer <i>C. Picardi (Switzerland), F. Caparrotti, F. Ris, M. Montemurro, D. Christen, L. Lestrade, O. Matzinger</i>	OC - 0458
11:10	Brachytherapy VS External Radiotherapy: A Dosimetric Comparison for rhabdomyosarcoma treatments <i>A. Traore-Diallo (France), K. Boualaoui, F. Goudjil, S. Bolle, S. Espenel, C. Robert, C. Charghari</i>	OC - 0459
11:20	HDR-IBT liver for oligometastatic disease from NPC <i>S. Abdul Shukor (Singapore), G.K. Appalanaido, M.Y. Musa, E. Seng Ch'ng</i>	OC - 0460

*Track: RTT***Proffered Papers: Advancements in RTT practice**

Sunday, 14 May 2023 10:30 - 11:30

Strauss 3

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|-------|--|-----------|
| 10:30 | The four pillars of advanced practice: perspectives from key radiotherapy stakeholders across Europe | OC - 0461 |
| | <i>C. Oliveira (Portugal), B. Barbosa, J.G. Couto, I. Bravo, C. Hughes, S. McFadden, R. Khine, H.A. McNair</i> | |
| 10:40 | Using the right tools to do the job right; evaluating a RTT decision-making framework in gynae IGRT | OC - 0462 |
| | <i>J. Rodgers (United Kingdom), A. Booth, C. Triffitt, L. Barraclough, A. Fatimilehin, K. Haslett</i> | |
| 10:50 | Experiential learning through paediatric patient education: game-based radiotherapy rehearsals | OC - 0463 |
| | <i>S.W. Lee (Hong Kong (SAR) China), C.F. Ching, A.J. Nicol, V.C. Tam, J. Cai, V.W. Leung, H.K. Law</i> | |
| 11:00 | Patient satisfaction of a consultant therapeutic radiographer led SRS clinic. | OC - 0464 |
| | <i>A. Williamson (United Kingdom), S. Nowicki, A. James, A. Duffton</i> | |
| 11:10 | On demand peer review of Gynaecological cancer radiotherapy : Audit of a quality improvement process | OC - 0465 |
| | <i>S. Chakraborty (India), T. Bhattacharyya, I. Mallick, R. Basu Achari, M. Arunsingh, S. Chatterjee</i> | |
| 11:20 | Verification of rectal cancer target auto-contouring by trained RTTs in online adaptive MRIGRT | OC - 0466 |
| | <i>A. Betgen (The Netherlands), L. Wiersema, N. Ferreira Silvério, R. Simões, C. Marijnen, F. Peters, U.A. van der Heide, T. Janssen</i> | |

*Track: Clinical***Mini-Oral: Lung**

Sunday, 14 May 2023 10:30 - 11:30

Stolz 1

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| | Impact of the COVID-19 pandemic on patient outcomes after curative-intent radiotherapy in the UK | MO - 0467 |
| | <i>I. Fornacon-Wood (United Kingdom), K. Banfill, S. Ahmad, A. Britten, C. Carson, N. Dorey, M. Hatton, C. Hiley, K. Thippu Jayaprakash, A. Jegannathan, P. Koh, N. Panakis, C. Peedell, A. Pope, C. Powell, C. Stilwell, B. Thomas, E. Toy, K. Wicks, V. Wood, S. Yahya, A. Peters, G. Price, C. Faivre-Finn</i> | |
| | Impact of gross vascular invasion on NSCLC outcomes: propensity matched cohort analysis | MO - 0468 |
| | <i>A. Ushkempirov (United Kingdom), C. Faivre-Finn, G. Price, A. Salem</i> | |
| | The addition of immunotherapy to lung cancer chemoradiotherapy: Factors associated with survival | MO - 0469 |
| | <i>H. Huang (United Kingdom), D.H. Brand, J.D. Fenwick, M.A. Hawkins</i> | |
| | IMPT reduces esophageal and pulmonary toxicity compared to VMAT in stage II-IV NSCLC patients | MO - 0470 |
| | <i>A. Hessels (The Netherlands), R. Stoffers, A. Niezink, O. Chouvalova, F. Ubbels, A. van der Leest, M. Woltman - van Iersel, P. Deseyne, H. Elzinga, E. Haan - Stijntjes, E. Korevaar, P. Pisciotto, H. Langendijk, R. Wijsman</i> | |

- Post-radiotherapy G3+ esophageal toxicity predictors: Pooled data from 2,131 lung cancer patients MO - 0471
A. Abravan (United Kingdom), H. Mistry, A. McWilliam, C. Faivre-Finn, A. Vega, J. López-Guerra, D. de Ruyscher, C. West, A. Salem
- Prospective trial of functional lung avoidance radiation for lung cancer: quality of life report MO - 0472
J. Lombardo, E. Castillo, R. Castillo, R. Miller, B. Jones, M. Miften, B. Kavanagh, A. Dicker, C. Boyle, N. Simone, M. Werner-Wasik, I. Grills, T. Guerrero, C. Rusthoven, Y. Vinogradskiy (USA)
- Lymphopenia during NSCLC ChemoRT is proportional to FLT-detected suppression of irradiated marrow MO - 0473
M. MacManus (Australia), E. Prinz, F. Hegi-Johnson, J. Callahan, R. Hicks, T. Akhurst, S. Xie, S. Everitt
- Is comorbidity associated with interruption of RT treatment in patients with lung cancer? MO - 0474
G. Motamedi-ghahfarokhi (United Kingdom), C. Faivre-Finn, M. Van Herk, H. Mistry, G. Price, A. Abravan

Track: Physics

Mini-Oral: Advanced treatment planning with photons and particles

Sunday, 14 May 2023 10:30 - 11:30

Stolz 2

- Late toxicity-associated patient-specific subregions in plan optimization for prostate cancer MO - 0475
L. Alborghetti (Italy), R. Castriconi, C. Sosa Marrero, A. Tudda, M.G. Ubeira-Gabellini, S. Broggi, J. Pascau, L. Cubero, C. Cozzarini, R. De Crevoisier, T. Rancati, O. Acosta, C. Fiorino
- On the configuration of small SRT beams: a protocol for accurate parameterization of a beam model MO - 0476
M. Ghazal (Sweden), T. Melhus, H. Benmakhlouf
- Potential of Very High Energy Electron (FLASH) beams in pancreatic and head-and-neck treatments MO - 0477
A. Muscato (Italy), L. Arsini, L. Campana, D. Carlotti, A. De Gregorio, A. De Gregorio, F. De Felice, C. Di Felice, M. Fischetti, M. Fischetti, M. Fiore, G. Franciosini, G. Franciosini, M. Marafini, M. Marafini, V. Marè, I. Mattei, M. Pacilio, V. Patera, S. Ramella, A. Schiavi, A. Sciubba, A. Sciubba, M. Schwarz, M. Toppi, G. Traini, A. Trigilio, A. Sarti, A. Sarti
- Clinical benefit of proton treatment planning based on dual energy CT for neuro-oncological patients MO - 0478
V. Taasti (The Netherlands), E. Decabooter, D. Eekers, I. Compter, I. Rinaldi, T. van der Maas, E. Kneepkens, J. Schiffelers, C. Stultiens, N. Hendrix, M. Pijls, R. Emmah, G. Fonseca, M. Unipan, W. van Elmpt
- Pencil beam scanning proton therapy for mediastinal lymphomas in deep inspiration breath-hold MO - 0479
F. Horberger (Sweden), K. Andersson, M. Enmark, I. Kristensen, A. Flejmer, A. Edvardsson
- Motion-induced proton dose change measured by 3D deformable dosimeters in an anthropomorphic phantom MO - 0480
S. Jensen (Denmark), S. Ehrbar, E. Worm, L. Muren, S. Tanadini-Lang, J. Petersen, P. Balling, P. Poulsen

Towards near real-time adaptive proton therapy: the partial adaptation strategy MO - 0481
V. Gambetta (Germany), V. Gambetta, A. Fredriksson, S. Menkel, C. Richter, K. Stützer, K. Stützer

Benchmarking of a clinical proton pencil beam scanning model in GATE, Eclipse and RayStation MO - 0482
D. Botnariuc (United Kingdom), S. Court, A. Lourenco, V. Politidis, G. Royle, A. Gosling, V. Rompokos, M. Hussein, C. Veiga

Track: RTT

Poster Discussion: Patient management strategies

Sunday, 14 May 2023 10:30 - 11:30

Business Suite 1-2

Skin markers are no longer a necessity in prostate MR-Linac treatments PD - 0483

R. Rutgers (The Netherlands)

Bowel prep for prostate radiotherapy: A comparison of daily enemas versus first 10 fractions only. PD - 0484

A. McKenna (United Kingdom), G. Bestwick

Open-face vs. closed masks: a randomized trial assessing patient comfort in cranial radiotherapy PD - 0485

M. Keane (Switzerland), K. Tomuschat, R. Dal Bello, S. Perryck, S. Tanadini-Lang, I. Madani, M. Guckenberger, M. Brown

Evaluation of patient reported toxicities and the information we provide to glioblastoma patients. PD - 0486

S. Fernandez (United Kingdom), F. Boele, S. Short

On the use of calming video content during MR-linac treatments: gimmick or game-changer? PD - 0487

J. Westerhoff (The Netherlands), P.T.S. Borman, R.H.A. Rutgers, B.W. Raaymakers, H.M. Verkooijen, M.F. Fast

Evaluating treatment uncertainties of an abdominal compression belt in patients with liver cancer PD - 0488

A. Webster (United Kingdom), D. Brand, D. Marsh, S. Petkar, K. McGeady, J. Heywood, C. Clark, M. Hawkins

Retinopathy and optic neuropathy after radiotherapy for brain, head and neck tumor: systematic review PD - 0489

B. Kinaci-Tas (The Netherlands)

Dose escalation in oesophageal cancer: comparing pre-accrual SCOPE2/PRODIGE-26 RTTQA programmes PD - 0490

J. Helbrow (United Kingdom), O. Nicholas, G. Lewis, G. Radhakrishna, T. Crosby, S. Gwynne

Failure Mode and Effects Analysis (FMEA) evaluation of the radiotherapy treatment delivery process. PD - 0491

V. Pisoni (Italy), R.M. Niespolo, V. Tremolada, S. Trivellato, E. Ierman, T. Brandolese, M. Pusceddu, P. Mazzoni, S. Arcangeli

Does rectal volume on pre-radiotherapy scans predict prostate motion during treatment? PD - 0492

S. Alexander (United Kingdom), A.C. Tree, R. Westley, U. Oelfke, H.A. McNair

Comfort Marker 2.0 vs Lancets skin markings - results from the COMFORTATTOO trial PD - 0493
(NCT05371795)

A.M. Pires (Portugal), L. Carvalho, A. C. Santos, A. M. Vilaça, A. R. Coelho, F. Fernandes, L. Moreira, J. Lima, R. Vieira, M. J. Ferraz, M. Silva, P. Silva, R. Matias, S. Zorro, S. Costa, S. Sarandão, C. Costa, A. F. Barros

Evaluation of patient positioning for accelerated partial breast irradiation on an MR-Linac PD - 0494

L. Davies (United Kingdom), L. McDaid, C. Anandadas, L. Whiteside, A. Clough, R. Benson, P. Fendall Amaro, J. Parker, H. Drury-Smith, C. Eccles

Track: Brachytherapy

Poster Discussion: Physics brachytherapy

Sunday, 14 May 2023 10:30 - 11:30

Business Suite 3-4

Improved heterogeneity handling for the Advanced Collapse-cone Algorithm PD - 0495

F. Alpsten (Sweden), B. van Veelen, C. Valdes-Cortez, F. Berumen Murillo, A. Ahnesjö, Å. Carlsson Tedgren

Feasibility of MR-only Interstitial HDR Brachytherapy with ZTE Imaging for Catheter reconstruction PD - 0496

H. Alsaleh (Saudi Arabia), S. Aldelaijan, B. Mofteh

Initial results for a state of the art "transferless" multi-modality imaging brachytherapy suite PD - 0497

F. Lacroix (Canada), N. Dufour, M. Lefebvre, S. Aubin, M. Lavallee, J. Morrier, E. Vigneault, M. Froment, W. Foster, L. Beaulieu, E. Poulin

Deep learning-based segmentation considering observer variation - evaluation in prostate MRI for BT PD - 0498

A. Dushatskiy (The Netherlands), P.A.N. Bosman, K.A. Hinnen, J. Wiersma, H. Westerveld, B. Pieters, T. Alderliesten

Optimising cervix brachytherapy planning using OAR dose estimates from external beam RT daily CBCTs PD - 0499

E. Tassano-Smith (United Kingdom), A.L. Palmer, W. Polak

Dose prediction in HDR brachytherapy for cervical cancer using 3D transformer-based deep learning PD - 0500

W. Jian (China), L. Zhu, Y. Zhang, B. Zhang, X. Wang

Superficial HDR brachytherapy - dosimetric verification of dose distribution with lead shielding PD - 0501

G. Bieleńda (Poland), G. Zwierzchowski, A. Szymbor, M. Boehlke

Improvements in Cervix Brachytherapy planning and outcomes between 2013 and 2022 at Coventry PD - 0502

C. Fletcher (United Kingdom), M. Hocking

A pre-clinical, phantom based study for real time source position monitoring in HDR brachytherapy PD - 0503

A. Sipahi (Germany), J. Strotmann, N. Chofer, I. Simiantonakis, A. Patil, A.A. Schönfeld

Method for regular calibration of small point detector in brachytherapy PD - 0504

M.L. Heidotting (Denmark), P. Georgi, S. Kynde Nielsen, A. Traberg Hansen, H. Spejlborg, S. Bjerre Hokland, K. Tanderup, J.G. Johansen

Monte Carlo simulated correction factors of a novel phantom for brachytherapy dosimetry audits PD - 0505

K. Chelminski (Austria), R. Abdulrahim, A. Dimitriadis, E. Granizo-Roman, J. Kalinowski, S.A. Enger, G. Azangwe, J. Swamidas

Characterization of a novel gamma camera for live source localization in HDR brachytherapy PD - 0506

J. Strotmann (Germany), A. Sipahi, K. Büsing, W. Kunth, N. Chofo, B. Poppe, A. Patil, A.A. Schönfeld

Track: Interdisciplinary

Proffered Papers: Highlights of Proffered Papers - Best papers

Sunday, 14 May 2023 11:40 - 12:40

Plenary Hall

11:40 Brachytherapy Best Paper: Comparison of quality of life among Carcinoma tongue patients treated with EBRT alone and EBRT & BT OC - 0507

V. Anand (India), M. Lala, V. Babu, S. Deshpande, K. Venkatesan, S. Pradhan

11:50 Clinical Best Paper: Molecular classification of endometrial cancer is predictive of response to adjuvant radiotherapy OC - 0508

N. Horeweg (The Netherlands), R.A. Nout, J.J. Jobsen, J.C. Lutgens, I.M. Jürgenliemk-Schulz, D.M. Haverkort, J.W.M. Mens, M.A. de Jong, B.G. Wortman, S.M. de Boer, H. Putter, E. Stelloo, V.T. Smit, T. Bosse, C.L. Creutzberg

12:00 Interdisciplinary Best Paper: Prospective assessment of AI screening for interstitial lung disease (ILD) in radiotherapy OC - 0509

A. Hope (Canada), C. McIntosh, S. Kandel, T. Patel, M. Welch, M. Giuliani, A. Bezjak, A. Bezjak, J. Cho, A. Sun, B. Lok, S. Raman, T. Tadic

12:10 Physics Best Paper: Genetically-based Cox-NTCP models for late toxicity after prostate cancer RT OC - 0510

T. Rancati (Italy), G. Eliana, M. Massi, N.R. Franco, B. Avuzzi, A. Cicchetti, B. Rosenstein, P. Seibold, D. Azria, A. Choudhury, D. De Ruysscher, M. Lambrecht, E. Sperk, C. Talbot, A. Vega, L. Veldeman, A. Webb, P. Zunino, A. Paganoni, F. Ieva, A. Manzoni, S. Gutierrez, S. Kerns, A. Dunning, R. Elliott, C. West, J. Chang-Claude

12:20 Radiobiology Best Paper: Hypoxic tumour cells drive tumour relapse after radiotherapy as revealed by a novel tracing tool OC - 0511

A. Menegakis (The Netherlands), A. Menegakis, C. Vennin, J. Ient, R. Klompmaier, L. Krenning, A. Friskes, M. ilic, R. Harkes, A. Groot, J. van Rheenen, M. Vooijs, R. Medema

12:30 RTT Best Paper: Randomized trial of person-centered versus standard RTT care for breast cancer patients NCT04507568 OC - 0512

M. Velec (Canada), V. Hoang, A. Cashell, K. Bryant, S. Chen, R. Hyvarinen, S. Kim, G. Lee, S. Lofgren, S. Moledina, D. Powell, A. Vloet, O. Wong, A. Liu, A. Santiago, J. Nachman, J. Croke, A. Fyles, R. Glicksman, E. Hahn, K. Han, J. Helou, F. Liu, D. Rodin, C.A. Koch

Track: Interdisciplinary

Award Lecture: C Regaud Award

Sunday, 14 May 2023 14:15 - 14:40

Plenary Hall

14:15 Introduction SP - 0513
M. Guckenberger (Switzerland)

14:20 Integrated imaging and biological approaches for next-generation immuno-radiotherapy combinations SP - 0514

E. Deutsch (France)

*Track: Interdisciplinary***Award Lecture: Iridium 192 Award**

Sunday, 14 May 2023 14:40 - 15:05

Plenary Hall

- | | | |
|-------|---|-----------|
| 14:40 | Introduction
<u>V. Strnad (Germany)</u> | SP - 0515 |
| 14:45 | I have a dream...
<u>G. Kovács (Italy)</u> | SP - 0516 |

*Track: Interdisciplinary***Joint Symposium: ESTRO-ESC: New cardio-oncology guidelines: Current state of knowledge and future directions**

Sunday, 14 May 2023 15:15 - 16:30

Schubert

- | | | |
|-------|--|-----------|
| | Chair: Andrea Filippi | - |
| | Chair: Esther Troost | - |
| 15:15 | The ESC cardio-oncology guidelines: Process and evolution
<u>T. Lopez-Fernandez (Spain)</u> | SP - 0517 |
| 15:33 | Radiotherapy within the guidelines
<u>M. Aznar (United Kingdom)</u> | SP - 0518 |
| 15:51 | Creating evidence for future guidelines - What's next?
<u>D. Cutter (United Kingdom)</u> | SP - 0519 |
| 16:09 | Cardio-oncology resources in Europe
<u>J. Bergler-Klein (Austria)</u> | SP - 0520 |

*Track: Radiobiology***Symposium: Individualising radiotherapy dose according to normal tissue effects - Are we there yet?**

Sunday, 14 May 2023 15:15 - 16:30

Lehar 4

- | | | |
|-------|--|-----------|
| | Chair: Nicolas Foray | - |
| | Co-Chair: Laura El-Nachef | - |
| 15:15 | Functional assays to predict individual patient responses to radiotherapy
<u>M. Bourguignon (France)</u> | SP - 0521 |
| 15:40 | Individual risk of radiogenic non-cancer effects
<u>TBC</u> | SP - 0522 |
| 16:05 | How much can radiotherapy benefit from biomarkers of normal tissue response to radiation
<u>N. Somaiah (United Kingdom)</u> | SP - 0523 |

*Track: Clinical***Symposium: Do radiotherapy techniques impact the concept and size of planning target volumes margins?**

Sunday, 14 May 2023 15:15 - 16:30

Hall A

Co-Chair: Fatjona Kraja

-

Chair: Edmond Sterpin

-

15:15 Do we need PTV margins in daily adaptive MR-Linac treatment?

SP - 0524

M. Alber (Germany)

15:40 Do we need PTV margins in proton therapy?

SP - 0525

E. Korevaar (The Netherlands)

16:05 Do we need PTV margins in brachytherapy?

SP - 0526

K. Tanderup (Denmark)*Track: Clinical***Joint Symposium: ESTRO-IASLC: New treatment strategies for stage III NSCLC and innovative biomarkers for patient's selection and monitoring**

Sunday, 14 May 2023 15:15 - 16:30

Plenary Hall

Chair: Andrea Bezjak

-

Chair: Ben Slotman

-

15:15 New neoadjuvant/adjuvant strategies for resectable disease

SP - 0527

L. Hendriks (The Netherlands)

15:33 New strategies for unresectable disease

SP - 0528

S. Ramella (Italy)

15:51 The challenge of equipoise when comparing surgical vs. non-surgical strategies in stage III NSCLC

SP - 0529

J. Remon (France)

16:09 Biomarkers for patient selection and monitoring

SP - 0530

G. Walls (United Kingdom)*Track: Physics***Debate: This house believes that C-arm linac is no longer the work-horse of radiotherapy**

Sunday, 14 May 2023 15:15 - 16:30

Lehar 1-3

Chair: Jenny Bertholet

-

Chair: Tracy Underwood

-

15:15 Introduction & voting

SP - 0531

15:18 For the motion - Robotic linacs can yield better plans with non-coplanarity and tumour tracking

SP - 0532

N. Hoekstra (The Netherlands)

15:33 Against the motion - C-arm Linac is an essential piece of equipment for treating all indications

SP - 0533

T. Depuydt (Belgium)

15:48 For the motion - ART and faster delivery times enabled by ring gantries SP - 0534
P. Sibolt (Denmark)

16:03 Against the motion - We can do (almost) everything with a C-arm, and more efficiently SP - 0535
S. Tanadini-Lang (Switzerland)

16:18 Discussion & voting SP - 0536

Track: Physics

Symposium: AI for (online?) IGRT

Sunday, 14 May 2023 15:15 - 16:30 Strauss 1

Chair: Wouter van Elmpt -

Co-Chair: Yujing Zou -

15:15 From science to clinical practice: Activities in the ESTRO AI future group SP - 0537
S. Korreman (Denmark)

15:30 AI-based image synthesis SP - 0538
M. Maspero (The Netherlands)

15:45 Towards AI-based motion modelling SP - 0539
C. Paganelli (Italy)

16:00 AI-based image reconstruction for IGRT SP - 0540
J. Sonke (The Netherlands)

16:15 AI²: When the AI checks the AI SP - 0541
T. Janssen (The Netherlands)

Track: Brachytherapy

Symposium: Supportive care and toxicity assessment in brachytherapy

Sunday, 14 May 2023 15:15 - 16:30 Strauss 2

Chair: Luca Tagliaferri -

Co-Chair: Magdalena Stankiewicz -

15:15 Focus on gynaecological cancer SP - 0542
P. Petric (Switzerland)

15:33 Supportive care and toxicity assessment in brachytherapy: Focus on Breast Cancer SP - 0543
C. Gutiérrez Miquélez (Spain)

15:51 Supportive care and toxicity assessment in brachytherapy - Focus on head & neck and skin cancers SP - 0544
A. Rembielak (United Kingdom)

16:09 Patient-centric approach among psychological aspects, humane relationships and technologies SP - 0545
L. Dinapoli (Italy)

*Track: RTT***Symposium: The role of radiation therapists in translating science to clinical practice**

Sunday, 14 May 2023 15:15 - 16:30

Strauss 3

Chair: Monica Buijs

-

Co-Chair: Elena Dawson

-

15:15 From innovation to action: RTT role in translating research into the clinic

SP - 0546

F. Rodrigues Sousa (Belgium)

15:40 Connecting the patient into the clinical trial: the role of an RTT

SP - 0547

N. Losekoot (The Netherlands)

16:05 Real" Model in Radiation Therapist led research

SP - 0548

H. McNair (United Kingdom)*Track: Clinical***Mini-Oral: CNS**

Sunday, 14 May 2023 15:15 - 16:15

Stolz 1

Stereotactic radiosurgery in the management of uveal melanoma – treatment results of 594 patients

MO - 0549

F. Ehret (Germany), R. Liegl, V. Schmelter, C. Fürweger, S. Priglinger, P. Foerster, A. Muacevic

Correlations between cerebral cortical thickness, radiation dose and verbal memory performance

MO - 0550

I. Budé, J. de Jong, N. Lackner, G.S. Drenthen, W. van Elmpt, W. Backes, A.A. Postma, J.B. Dijkstra, I. Compter, D.B. Eekers, C.M. Zegers (The Netherlands)

Impact of pediatric irradiation on connectivity in learning and memory circuits (NCT04324450)

MO - 0551

E. Baudou, P. Peran, L. Pollidoro, N. Courbieres, G. Arribarat, F. Tensaouti (France), J. Tallet, J. Danna, J. Pariente, Y. CHAIX, A. Laprie

Adult intracranial ependymoma - the role of DNA methylation in radiotherapeutic treatment decisions

MO - 0552

D. Kaul (Germany), L. Schweizer, E. Pérez, S. Schmid, C. Dittmayer, K. Ichimura, U. Schüller, L. Dührsen, M. Muther, W. Paulus, C. Thomas, M. Gutt-Will, P. Schucht, T. Maragkou, J. Schittenhelm, F. Eckert, M. Niyazi, D. Fleischmann, M. Dorostkar, S. May, J. Walter, F. Ehret, C. David, M. Träger

Clinical outcome and quality of life of intracranial meningiomas treated with PBS Proton Therapy

MO - 0553

R. Krcek (Switzerland), D. Leiser, A. Bolsi, D.C. Weber

Validation of a NTCP model for temporal lobe radionecrosis in patients receiving proton beam therapy

MO - 0554

J. King (United Kingdom), S. Gaito, A. France, A. Holtzman, D. Indelicato, R. Colaco, G. Whitfield, S. Pan

Novel target volume delineation method in glioblastoma

MO - 0555

I. Popp (Germany), M. Bulach, A. Bilger, E. Gkika, A. Grosu

Reduction of the CTV margin in glioblastoma leads to dosimetric benefit without compromising outcome MO - 0556

D. Di Perri (Belgium), D. Hartgerink, K. Terhaag, R. Houben, I. Compter, D. Eekers

Track: Interdisciplinary

Mini-Oral: Patient and public perspective

Sunday, 14 May 2023 15:15 - 16:15

Stolz 2

The virtual reality for managing emotional distress in paediatric patients receiving radiotherapy MO - 0557

S. Mico (Spain), D. Garcia, M. Ramos, A. Salo, M. Boufill, E. Bustelo, J. Garre, E. Recalde, J. Giralt

Patients' needs in Proton Therapy: a survey among 10 European Facilities MO - 0558

G.C. Mazzola (Italy), L. Bergamaschi, C. Pedone, M.G. Vincini, M. Pepa, M. Zaffaroni, S. Volpe, J. Doyen, P. Fossati, K. Haustermans, M. Høyer, J.A. Langendijk, R. Matute, E. Orlandi, H. Rylander, B. Rombi, E. Troost, R. Orecchia, D. Alterio, B.A. Jereczek-Fossa

The effectiveness of an educational intervention on young adults' perception of radiation therapy MO - 0559

T. O'Donovan (Ireland), K. Murphy, A. Devine, P.M. McEntee, P.A. Barry, D.A. England

A new index for pain management shows that patients are referred too late to palliative radiotherapy MO - 0560

C.M. Donati (Italy), E. Nardi, A. Zamagni, G. Siepe, C. Malizia, F. Cellini, A. Di Rito, M. Portaluri, C. De Tommaso, A. Santacaterina, C. Tamburella, R. Di Franco, S. Parisi, S. Cossa, V. Fusco, A. Bianculli, P. Ziccarelli, L. Ziccarelli, D. Genovesi, L. Caravatta, F. Deodato, G. Macchia, F. Fiorica, G. Napoli, M. Buwenge, R. Rossi, S. Cammelli, M. Maltoni, A.G. Morganti

Defining Patient Empowerment from a radiation oncology perspective: An Expert and patient consensus MO - 0561

M. Shouman (Germany), S. Tari, F. Mumm, M. Hoyer, J.G. Eriksen, C. Le Péchoux, A. Laprie, D. Krug, U. Ricardi, V. Valentini, B.A. Jereczek-Fossa, I. Meattini, M. Mast, B. Slotman, B.R. Pieters, L. Motisi, A. Rembielak, A.M. Kirby, C. Nieder, C. Salembier, S. Blamek, P.C. Lara, F. Couñago, Y. Lievens, P. Ost, R. Bultijnck, K. Kuehlmeier, F. McDonald, P. Blanchard, M. Guckenberger, C. Belka

A new model of care - developing an RTT led regional radiotherapy late effects service MO - 0562

L. Durrant (United Kingdom), A. Board, S. Bostock, H. Clarke, E. Crozier, V. Hands, S. Hill, Z. Walker

Youth education and outreach with the international Particle Therapy Masterclass MO - 0563

N. Wahl (Germany), N. Charitonidis, M. Dosanjh, N. Homolka, C. Graeff, A. Mamaras, J. Seco, D. Skrijelj, R. Taylor, A. Topi, H. Wieser, P. Foka

Changes in health-related quality of life in Head and Neck Patients Who Received Proton Therapy MO - 0564

Y.H. Chen (The Netherlands), C. Uyl-de Groot, M. van Vulpen, H. Blommestein

Track: Clinical

Poster Discussion: Urology

Sunday, 14 May 2023 15:15 - 16:15

Business Suite 1-2

Outcomes of the use of partial boost in radical radiotherapy in muscle invasive bladder cancer. PD - 0565

I. Navarro (Canada), S. Arulanantham, Z. Liu, M. Tjong, V. Kong, V. Malkov, T. Tadic, N. Fleshner, G. Kulkarni, A. Zlotta, C. Catton, A. Berlin, S. Sridhar, D. Jiang, P. Chung, S. Raman

- MRI before salvage radiotherapy after radical prostatectomy in prostate cancer: a case-control study PD - 0566
L. Cavallini (Italy), C. Gaudio, E. Galletta, F. Mammini, S. Paolinelli, V. Laghi, D. Vallerossa, E. Natoli, A.G. Morganti, A. Arcelli, S. Cammelli, G. Macchia, F. Deodato, R. Golfieri, G.P. Frezza, M. Ntreta
- CT-based radiomic signatures to predict biochemical recurrence after salvage radiotherapy PD - 0567
S. Spohn (Germany), N. Schmidt-Hegemann, J. Ruf, M. Mix, M. Benndorf, M.R. Makowski, S. Kirste, M.M. Vogel, J.E. Gschwend, C. Gratzke, C. Stief, S. Löck, A. Zwanenbourg, C. Trapp, P. Galitsnaya, S.G. Nekolla, C. Belka, S.E. Combs, M. Eiber, L. Unterrainer, M. Unterrainer, P. Bartenstein, A.L. Grosu, C. Zamboglou, J.C. Peeken
- Prostate radiotherapy may cause fertility issues – analysis of testicular dose following modern RT PD - 0568
M. Kissel (France), M. Terlizzi, N. Giraud, A. Alexis, M. Cheve, J. Vautier, A. Bossi, P. Morice, P. Blanchard
- Quality of life results from the Prostate Cancer Outcome Study (PCO) after primary radiotherapy PD - 0569
B. Polat (Germany), N.T. Sibert, S. Wesselmann, S. Dieng, G. Feick, E. Carl, J. Fichtner, M. Burchardt, R. Kosmala, J. Tamihardja, T. Wiegell, M. Flentje, C. Kowalski
- The value of PROMs for predicting erectile dysfunction in prostate cancer patients PD - 0570
B. Osong (The Netherlands), H. Hasannejadasl, H. van der Poel, B. Vanneste, J. van Roermund, K. Aben, I. Bermejo, J. Van Soest, L. Kiemeney, I. Van Oort, R. Verwey, L. Hochstenbach, E.J.B. van Gurp, A. Dekker, R.R. Fijten
- Patient reported lower limb edema after curative radiotherapy for prostate cancer PD - 0571
L. Fokdal (Denmark), M. Berg, A. Zedan, H. Dahl Nissen, L. Bentzen, M. Svensson, C. Vestergaard Madsen
- Late urinary toxicity with extreme and moderate hypofractionated prostate RT with prior TURP PD - 0572
P. Maitre (India), K. Adsul, P. Singh, A. Krishnan, S. MS, R. Phurailatpam, V. Raveendran, G. Prakash, M. Pal, V. Murthy
- MR-guided daily adapted SBRT for prostate cancer: Acute and late patient reported outcomes PD - 0573
K. Nugent (United Kingdom), A. Sabharwal, C. Perna, P. Das, N. Dallas, P. Camilleri
- Acute toxicity comparison of MR-guided adaptive versus CT-guided prostate SBRT: A meta-analysis PD - 0574
J. Leeman (USA), K. Shin, Y. Chen, R. Mak, P. Nguyen, A. D'Amico, N. Martin
- UHRT for PCa with a DIL boost– a 5 year update with a focus on the impact of toxicity on QoL PD - 0575
G. Corrao (Italy), G. Marvaso, M. Pepa, M. Zaffaroni, M.G. Vincini, F. Bellerba, S. Gandini, S. Volpe, D. Zerini, C. Fodor, P. Pricolo, S. Alessi, G. Petralia, F.A. Mistretta, R. Cambria, F. Cattani, O. De Cobelli, R. Orecchia, B.A. Jereczek-Fossa
- Stereotactic reirradiation for locally recurrent prostate cancer after definitive radiotherapy PD - 0576
G. Francolini (Italy), C. Cerbai, M.G. Carnevale, V. Di Cataldo, B. Detti, M. Loi, G. Frosini, B. Guerrieri, I. Morelli, M. Roghi, M. Ganovelli, A. Allegra, V. Salvestrini, L. Visani, E. Olmetto, D. Greto, G. Simontacchi, M. Mangoni, I. Desideri, I. Meattini, L. Livi

Track: Physics

Poster Discussion: QA and auditing

Sunday, 14 May 2023 15:15 - 16:15

Business Suite 3-4

Final analysis of the benchmark case RTQA procedure for the EORTC 1420 'Best of' trial (NCT02984410) PD - 0577

D. Portik (Belgium), E. Clementel, C. Corning, R.O. Olaniran, J. Kazmierska, E.M. Ozsahin, W. Grant, M. Tomsej, L. Vieilleveigne, C. Simon, V. Gregoire, N. Reynaert, N. Andratschke

Quality assurance of EPID transit dosimetry software: results from a multicentric study PD - 0578

M. Esposito (Italy), R. Baldoni, E. Bossuyt, S. Bresciani, C. Clark, M. Jones, N. Jornet, S. Kry, J. Perry, J. van de Kamer, D. Verellen

Commissioning and implementing a Quality Assurance program for dedicated radiotherapy MRI simulators PD - 0579

E. Poulin (Canada), F. Lacroix, J. Jutras

Evaluation of UK Pre-Trial Target Delineation Uncertainty To Inform PTV Margins (EDUTIP) PD - 0580

D. Bernstein (United Kingdom), H. Grimes, K. Rooney, R. Patel, C. Nutting

Development of a comprehensive 4DCT QA program: Implementation and validation PD - 0581

J. Bakkali Tahiri (Belgium), M. Burghelea, M. Kyndt, A. Gulyban, J. Dhont, S. Juliane, E. Bogaert, D. Van Gestel, N. Reynaert

Multicentric validation of an automatic planning tool for TMI and TBI lower-extremities using VMAT PD - 0582

N. Lambri (Italy), G. D'Onofrio, F. Lliso, F.J. Luis-Simon, S. Broggi, D. Dei, R.C. Brioso, L. Crespi, D. Loiacono, G. Reggiori, S. Tomatis, M. Scorsetti, P. Mancosu

Challenges in modelling the Agility multileaf collimator in TPSs and current needs for improvement PD - 0583

V. Hernandez (Spain), A. Angerud, E. Bogaert, M. Hussein, M. Lemire, J. Garcia-Miguel, J. Saez

Multicenter validation of gynaecological Knowledge-Based Planning to automate plan optimization PD - 0584

A. Zawadzka (Poland), D. Kopec, B. Bekman, T. Siudzinski, J. Kaminska, A. Ryczkowski, M. Poltorak, T. Piotrowski

Characterization of 3D printed material for end-to-end test phantoms in proton therapy PD - 0585

J. Brunner (Austria), M. Stock, D. Georg, B. Knäusl

Design and assembly of a non-invasive radiation detector to measure the AIF in dynamic PET. PD - 0586

L. Carroll (Canada), Y. Daoud, S.A. Enger, S.A. Enger

End-to-end validation of stereotactic radiosurgery delivery for multiple targets PD - 0587

E. Gershkevitch (Estonia), B. Petrovic, V. Mahalwar, R. Slade-Carter, A. Blackmore, A. Saplaouras

Performance characterization of the Blue Physics scintillator in the 1.5T MR-linac PD - 0588

S. Oolbekkink (The Netherlands), B. van Asselen, S. Woodings, J. Wolthaus, W. de Vries, A. van Appeldoorn, M. Feijoo, M. van den Dobbelsteen, B. Raaymakers

*Track: Interdisciplinary***Proffered Papers: Patient perspectives**

Sunday, 14 May 2023 16:45 - 17:45

Schubert

- 16:45 Barriers for inclusion in a proton therapy trial among Danish patients with head and neck cancer OC - 0589
A. Kristensen (Denmark), J. Friberg, K. Jensen, J.G. Eriksen, C. Maare, M. Farhadi, J. Johansen, C.R. Hansen, M. Andersen, S. Dalton, C. Grau
- 16:55 Financial toxicity in Swiss cancer patients treated with proton therapy OC - 0590
B. Bachtary (Switzerland), L. Grawehr, U. Held, D.C. Weber
- 17:05 Acute radiotherapy toxicity in elderly patients managed by a multidisciplinary oncogeriatric model OC - 0591
M. Borgia (Italy), L. Gasparini, L. Caravatta, M. Taraborrelli, M. Candeloro, E. Porreca, D. Genovesi
- 17:15 Patient reported quality of life during and after primary radiotherapy for prostate cancer OC - 0592
T. Siersbaek, M.S. Svenson (Denmark), M. Berg, C.V. Madsen, L. Fokdal, H.D. Nissen
- 17:25 Process Mining: a new approach for improving patients' care path in radiation oncology department OC - 0593
F. Mastroleo (Italy), M. Pepa, R. Gatta, G. Capobianco, L. Dima, S. Volpe, M. Zaffaroni, M. Sarra Fiore, E. Rondi, A.M. Ferrari, M. Krengli, G. Marvaso, B.A. Jereczek-Fossa
- 17:35 Patients' attitudes on the use of AI-based decision aid: A qualitative study OC - 0594
H. Hasannejadasi (The Netherlands), E. Essink, C. Roumen, C. Offermann, A. Dekker, R. Fijten

*Track: Radiobiology***Proffered Papers: Normal tissue radiobiology**

Sunday, 14 May 2023 16:45 - 17:45

Lehar 4

- 16:45 Proton FLASH: Impact of beam pauses on the biological response in an acute damage mouse model OC - 0595
B.S. Sørensen (Denmark), M.K. Sitarz, C. Ankjærgaard, L. Kristensen, C.E. Andersen, C. Grau, P. Poulsen
- 16:55 Microbiota-Derived I3A Accelerates Intestinal Stem Cell Development After Ionizing Radiation OC - 0596
Y. tian (China), L. Xie, S. Cai
- 17:05 Gut Microbiota is Predictive of Radio-induced Gastrointestinal Toxicity in Prostate Cancer Patients OC - 0597
J. Iacovacci (Italy), T. Rancati, E. Gioscio, L. De Cecco, B. Avuzzi, B. Noris Chiorda, F. Badenchini, T. Giandini, A. Cicchetti, N. Zaffaroni, V. Doldi, E. Mancinelli, M.S. Serafini, A. Devecchi, L. Andreoli, E. Orlandi, R. Valdaghi
- 17:15 Mitigative potential of statin therapy in base-mediated radiation cardiotoxicity OC - 0598
G. Walls (United Kingdom), M. Ghita, R. Kuburas, K. Edgar, C. Watson, D. Grieve, A. Cole, K. Butterworth
- 17:25 Characterization of irradiated colonic stroma for therapeutic treatment of Pelvic Radiation Disease OC - 0599
M. Jestin (France), N. Mathieu, C. Squiban, C. Demarquay, F. Milliat, M. Benadjaoud

- 17:35 The early and late effects of high-dose irradiation on cardiac injury in a rat model OC - 0600
H.I. Lee (Korea Republic of), J. Koh, M. Cha, J.H. Chang, H.J. Kim

Track: Clinical

Proffered Papers: Gynaecology

Sunday, 14 May 2023 16:45 - 17:45

Hall A

- 16:45 Early toxicity and quality of life after molecular-based adjuvant treatment in the PORTEC-4a trial OC - 0601
A. van den Heerik (The Netherlands), C. Post, L. Lutgens, D. Haverkort, S. Kommoss, F. Koppe, M. Nowee, H. Westerveld, M. de Jong, D. Cibula, J. Cnossen, J.W. Mens, C. Chagari, S. Bijmolt, C. Gillham, T. Stam, I. Jürgenliemk-Schulz, K. Vandecasteele, K. Verhoeven-Adema, R. Nout, H. Putter, V. Smit, N. Horeweg, T. Bosse, C. Creutzberg
- 16:55 Development of an evidence-based adjuvant treatment decision support tool for endometrial cancer OC - 0602
L. Vermij (The Netherlands), H. Putter, J. Jobsen, M. Powell, S. de Boer, A. Leary, A. Fyles, P. Khaw, L. Lutgens, I. Jürgenliemk-Schulz, M. de Jong, D. Haverkort, R. Nout, V. Smit, E. Steyerberg, T. Bosse, C. Creutzberg, N. Horeweg
- 17:05 Which is the optimal lymph node management in node positive cervical cancer? OC - 0603
A. Zaharie (Austria), A. Sturdza, J. Knoth, C. Grimm, S. Polterauer, C. Kirisits, R. Pötter, J. Widder, M. Schmid
- 17:15 HYPOC*x*-iRex (TCTR20210812003) a phase II RCT: 44Gy/20F VS 45Gy/25F CCRT in Cervical Cancer OC - 0604
T. Prasartsee (Thailand), P. Dankulchai, W. Sittiwong
- 17:25 Patient-reported peripheral neuropathy in cervix cancer patients: a trajectory analysis OC - 0605
A.T. Frederiksen (Denmark), M. Pelizzola, K. Kirchheiner, I.M. Jürgenliemk-Schulz, R.A. Nout, M.P. Schmid, K. Tanderup, L.T. Tan, S. Spampinato
- 17:35 Severity and time-weighted gastrointestinal morbidity in cervix cancer: EMBRACE analysis with MOSES OC - 0606
M. Charnalia (Denmark), N. Ranjan, S. Spampinato, R. Pötter, I.M. Jürgenliemk-Schulz, N. Nesvacil, K. Kirchheiner, K. Tanderup, S. Chopra

Track: Clinical

Proffered Papers: Lung

Sunday, 14 May 2023 16:45 - 17:45

Plenary Hall

- 16:45 Pattern of brain metastases after HA-PCI and SRCF in SCLC: pooled findings of NCT01780675 and PREMIER OC - 0607
H. Zeng (The Netherlands), S. Schagen, L. Hendriks, G. Sánchez-Benavides, J. Jaspers, R. Manero, Y. Lievens, M. Murcia-Mejía, M. Kuenen, M. Rico-Oses, M. de Ruiter, F. Couñago, E. Dieleman, K. de Jaeger, P. Calvo-Crespo, M. Lambrecht, P. Samper, J. Belderbos, D. De Ruyscher, N. Rodríguez de Dios
- 16:55 Do patients with lung cancer and a genetic risk for rheumatoid arthritis have increased toxicity? OC - 0608
A. McWilliam (United Kingdom), S. Kerns, D. Marshall, D. Azria, J. Chang-Claude, A. Choudhury, S. Gutiérrez-Enríquez, M. Lambrecht, T. Rancati, D. De Ruyscher, P. Seibold, C. Talbot, A. Vega, L. Veldeman, A. Webb, K. Banfill, C. Faivre-Finn, B. Rosenstein, C. West
- 17:05 Late toxicity following stereotactic radiotherapy (SABR) for central and ultracentral lung tumors OC - 0609
H. Tekatli (The Netherlands), F. Lagerwaard, R. van Eekelen, S. Senan

- 17:15 Long-term outcomes of TROG13.01 SAFRON II: Single vs multi-fraction SABR for oligometastases to lung OC - 0610
S. Siva (Australia), P. Sakyanun, T. Mai, W. Wong, A. Lim, J. Ludbrook, C. Bettington, A. Rezo, D. Pryor, N. Hardcastle, T. Kron, B. Higgs, H. Le, M. Skala, S. Gill, R. Awad, G. Sasso, S. Vinod, R. Montgomery, D. Ball, M. Bressel
- 17:25 Lungtech EORTC 22113-08113 prospective multicenter trial: SBRT for central lung tumors. OC - 0611
S. Adebahr (Germany), U. Nestle, C. Hurkmans, M. Ahmed, S. Ahmad, M. Guckenberger, X. Geets, Y. Lievens, M. Lambrecht, N. Pourel, V. Lewitzki, K. Konopa, K. Franks, R. Dziadziuszko, F. McDonald, C. Fortpied, E. Clementel, B. Fournier, H. Rischke, C. Fink, O. Riesterer, H. Peulen, A. Grosu, C. Faivre-Finn, C. Le Pechoux
- 17:35 Dose and fractionation for palliative lung radiotherapy: 8 years of clinical practice OC - 0612
C. Kristiansen (Denmark), T.L. Fink, T.S. Hansen, M.D. Lund, R.S. Thing

Track: Physics

Proffered Papers: Dose accumulation and dose prediction

Sunday, 14 May 2023 16:45 - 17:45

Strauss 1

- 16:45 Automatic treatment selection guided by deep learning: a proof-of-concept for esophageal cancer OC - 0613
C. Draquet (Belgium)
- 16:55 A deep learning based dose engine OC - 0614
M. Witte (The Netherlands), J. Sonke
- 17:05 Variations in cumulative dose assessment in re-irradiation scenarios: a multi-centre evaluation OC - 0615
N. Hardcastle (Australia), E. Vasquez Osorio, C. Mayo, A. Jackson, F. Belosi, M. Chamberlain, C. Thompson, C. Palmer, N. Solomou, L. Hoffmann, P. Dupuis, M. Ayadi, S. Muscat, J. Handley, A. Selby, H.S. Rønde, N. West, A. Aarberg, T. Skopidou, J. Stroom, J. Perez-Alija, M. Popovic, C. Kelly, C. Michailidou, A. Appelt
- 17:15 Generative adversarial networks for head-and-neck cancer radiotherapy dose distribution prediction OC - 0616
V. Strijbis (The Netherlands), X. Gu, M. Dahele, B. Slotman, W. Verbakel
- 17:25 A multi-institutional retrospective deformable dose accumulation analysis for MR-guided RT OC - 0617
M. Murr (Germany), U. Bernchou, E. Bubula-Rehm, M. Ruschin, P. Sadeghi, P. Voet, J.D. Winter, J. Yang, E. Younus, C. Zachiu, Y. Zhao, H. Zhong, D. Thorwarth
- 17:35 Recommendations for validation and verification of deformable image registration in radiotherapy OC - 0618
L. Bosma (The Netherlands), M. Hussein, M. Jameson, S. Asghar, K. Brock, J. McClelland, S. Poeta, J. Yuen, C. Zachiu, A. Yeo

Track: Physics

Proffered Papers: Photon treatment planning

Sunday, 14 May 2023 16:45 - 17:45

Lehar 1-3

- 16:45 Robustness of spine SBRT to sub tolerance MLC errors – a large scale evaluation OC - 0619
M. Hussein (United Kingdom), N. Hardcastle, J. Lehmann, C. Clark
- 16:55 Simultaneously Integrated Protection in SBRT of Pancreas - An International Planning Benchmark Study OC - 0620
C. Moustakis (Germany), M. Grohmann, D. Schmitt, O. Blanck, E. Gkika, T. Brunner

- 17:05 Dosimetric beam-angle optimization for non-coplanar dynamic-collimator trajectory radiotherapy OC - 0621
J. Bertholet (Switzerland), C. Zhu, S. Mueller, G. Guyer, P. Mackeprang, H.A. Loebner, W. Volken, M.M.F. Stamparoni, D.M. Aebersold, M.K. Fix, P. Manser
- 17:15 Evaluation of the dosimetric impact of PET-based adaptive radiotherapy in the PEARL Clinical Trial OC - 0622
M. Evans (United Kingdom), T. Rackley, S. Berenato, O. Woodley, R. Windle, R. Maggs, J. Staffurth, S. Hargreaves, P. Wheeler
- 17:25 Ultra-High dose rate irradiation spares a large quantity of circulating lymphocytes in brain tumours OC - 0623
F. de Kermenguy (France), P. Maury, B. Nathan, E. Deutsch, C. Robert
- 17:35 variance-based sensitivity analysis (SA) for the evaluation of margin concepts in radiotherapy OC - 0624
M. Mayer (Germany), J. Hofmaier, S. Neppl, F. Walter, K. Niyazi, S. Marnitz-Schulze, C. Baues, F. Kamp

Track: Brachytherapy

Proffered Papers: Urology

Sunday, 14 May 2023 16:45 - 17:45

Strauss 2

- 16:45 LDR monotherapy versus LDR boost for intermediate-risk prostate cancer: long-term outcomes OC - 0625
A. Goñi Ramirez (Spain), B. De Paula, E. Saenz de Urturi, V. Pastor Sanchis, A. Bartrés, M. Eguiguren, M. Pagola, D.A. Roura, A. Ayete, S. Palacios, U. Iceta, L. Gonzalez, D.I. Ortiz de Urbina, V. Alba, M. Erzilbengoa, J. Rosa Nieto
- 16:55 HDR-BT and SBRT in prostate cancer: results from a prospective phase II trial NCT04523896 OC - 0626
D. Buchser Garcia (Spain), A. Bilbao, M. Marban, J. Cacicedo, F. Perez, I. Valverde, J.M. Espinosa, B. Santos, F. Casquero, A. Gomez-Iturriaga
- 17:05 Prospective study of MRI guided HDR-BT and EBRT: 10years experience of a mono-institutional cohort OC - 0627
A. Gomez Iturriaga (Spain), I. Valverde-Pascual, F. Perez Azorin, B. Santos-Zorroza, J.A. Guerrero, F. Couñago, J. Cacicedo, M. Marban, I. San Miguel, I. Raton, C. Mascarell, D. Büchser
- 17:15 Salvage low-dose-rate brachytherapy for locally recurrent prostate cancer after radiotherapy OC - 0628
Y. Meraouna (France), P. Blanchard, S. Losa, A. Labib, S. Khili, G. Crehange, T. Flam, J. Cosset, M. Kissel
- 17:25 MR-assisted salvage HDR prostate brachytherapy with intra-prostatic boost: a prospective study OC - 0629
H. Chung (Canada), A. Loblaw, C. Tseng, J. Murgic, A. Ravi, M. Davidson, M. Wronski, M. Paudel, M. Haider, G. Morton
- 17:35 Salvage HDR brachytherapy for prostate cancer recurrence: comparison of two fraction schedules OC - 0630
M. Stankiewicz (Poland), S. Kellas-Slecicka, M. Szlag, P. Wojcieszek

*Track: Brachytherapy***Proffered Papers: Head and neck & physics**

Sunday, 14 May 2023 16:45 - 17:45

Strauss 3

- 16:45 Upfront HDRI/T followed by IMRT for the Definitive Treatment of Tongue SCC OC - 0631
G.K. Appalanaido (Malaysia), M.Y. Musa, E.S. Chng, S. Abdul Shukor, S.E. Chong, S.N.F. Mohd Noor, A.N. Azahari, S.H. Kamaruddin, N.H. Ishak, M.Z. Abdul Aziz, J. Jalil
- 16:55 Local tumor control after brachytherapy impacts on survival in patients with uveal melanoma. OC - 0632
M. Gonzalez Cantero (Spain), M.M. Teja Ubach, I. Garrido Botella, M. Rodriguez Roldan, R. Rosel Aller, B. Deben Mendez, A. Ocanto Martinez, A. Escribano Uzcudun, E. Gonzalez del Portillo, I. Rodriguez Rodriguez, R. Morera Lopez
- 17:05 ESTRO abstract: The global Ruthenium Eye applicator survey - physicist responses OC - 0633
L.S. Fog (Australia), M. De Brabandere, E. Placidi, A. Slocker, L. Tagliaferri, Å.C. Tedgren, M. Andrassy, C. Schulz, E.C. Chimfwembe, F. Siebert (chair of BRAPHYQS)
- 17:15 HDR-BT with 3D-printed individual applicators for skin BCC in the H&N area – initial results. OC - 0634
A. Chyrek (Poland), W. Burchardt, G. Bielęda, A. Kluska, A. Chichel
- 17:25 Assessing the clinical impact of brachytherapy source tracking uncertainties of a novel IVD system OC - 0635
T. van Wagenberg (The Netherlands), R. Voncken, C. Van Beveren, F. Verhaegen, G. Paiva Fonseca
- 17:35 GEC-ESTRO Recommendations on Calibration and Traceability of HE HDR-PDR Photon Brachytherapy Sources OC - 0636
J. Perez Calatayud (Spain), F. Ballester, Å. Carlsson Tedgren, L.A. DeWerd, P. Papagiannis, M.J. Rivard, F. Siebert, J. Vijande

*Track: Interdisciplinary***Mini-Oral: Radiotherapy and the heart**

Sunday, 14 May 2023 16:45 - 17:45

Stolz 2

- Risk of myocardial infarction/stroke after breast cancer treatment: a cohort of 1.3 million patients MO - 0637
P. Franco (Italy), E. Favaro, G.W. Gilcrease, S.C. Calabrese, E. Ferracin, D. Di Cuonzo, A. Macciotta, A. Catalano, L. Dansero, A. D'Errico, G. Numico, R. Gnani, G. Costa, E. Pagano, C. Sacerdote, F. Ricceri
- Frequency of cardiac hospitalization early after lung cancer RT relates to cardiac substructure dose MO - 0638
A. Abravan (United Kingdom), G. Price, A. McWilliam, C. Faivre-Finn, M. van Herk
- Variation in planned heart radiation dose in 5806 breast cancer patients in 2008-2014: A DBCG study MO - 0639
E.R. Skarsø (Denmark), L.H. Refsgaard, A. Saini, E.L. Lorenzen, E. Maae, E. Yates, I. Jensen, K. Andersen, K. Boye, L.W. Matthiessen, M. Maraldo, M. Berg, M.H. Nielsen, M. Møller, S.A. Al-Rawi, B. Offersen, S.S. Korreman
- Structural cardiac changes in cardiac MRI after SBRT for targets in close proximity to the heart MO - 0640
M. Ahmadsei (Switzerland), B. Pouymayou, S. Ehrbar, J. von Spiczak, S.M. Christ, J. Willmann, B. Kovacs, R. Manka, A.M. Saguner, M. Guckenberger, N. Andratschke, M. Mayinger

- Late cardiac events from lymphoma treatment -a meta-regression analysis of dose/response MO - 0641
L. Nygård (Denmark), I.R. Vogelius, S.M. Bentzen, L. Specht
- Predicting post-radiotherapy cardiac toxicity for non-small cell lung cancer patients MO - 0642
Z. Shen (United Kingdom), M. A. Hawkins, D. Brand, Y. Zhang, O. Chohan, J. Watts, M. Simard, C. Collins Fekete
- Dose to heart substructures is associated with grade≥3 cardiac events after SABR in stage I-II NSCLC MO - 0643
M. Cerrato (Italy), F. Menegatti, I. Bonavero, C. Casale, C. Grossi, S. Badellino, R. Parise, U. Ricardi, M. Levis
- Investigating the survival effect of cardiac substructure dose in a large lung radiotherapy cohort MO - 0644
L. van der Pol (The Netherlands), J. Pomp, J. Verhoeff, B. Raaymakers, M. Fast

Track: Clinical

Poster Discussion: CNS

Sunday, 14 May 2023 16:45 - 17:45

Business Suite 1-2

- A feasibility trial of preoperative radiosurgery for resectable brain metastases (PREOP-1) PD - 0645
S. Rogers (Switzerland), L. Schwyzer, N. Lomax, S. Alonso, T. Lazeroms, S. Schwenne, G. Silvia, S. Berkmann, A. Tortora, S. Marbacher, G. Schubert, O. Riesterer
- Outcomes of stereotactic radiosurgery for colorectal cancer brain metastases PD - 0646
C. Gui (USA), K.D. Mueller, J.E. Eichholz, H. Walch, I. Khatri, L. del Balzo, N.E. Kemeny, B.S. Imber, N. Schultz, M.B. Foote, R.D. Yaeger, L.R.G. Pike
- Conventionally fractionated versus hypofractionated radiotherapy in elderly glioblastoma patients PD - 0647
H.I. Lee (Korea Republic of), J. Kim, I.A. Kim, J.H. Lee, H.I. Yoon, C.W. Wee
- FET-PET incorporation for GBM radiotherapy planning: multi-site FIG Study credentialling programme PD - 0648
E. Koh (Australia), N. Barry, M.A. Ebert, A. Moore, R.J. Francis, S.P. Ng, M. Back, B. Chua, M. Pinkham, A. Pullar, C. Phillips, J. Sia, P. Gorayski, H. Le, S. Gill, J. Croker, N. Bucknell, C. Bettington, F. Syed, K. Jung, J. Chang, A. Bece, C. Clark, M. Wada, A.M. Scott
- Temozolomide and hypofractionated RT versus standard of care in the post-operative setting of GBM. PD - 0649
M. Ferro (Italy), G. Macchia, D. Pezzulla, S. Cilla, C. Romano, S. Cammelli, E. Cucci, D. Vallerossa, A. Benini, M. Buwenge, M. Boccardi, A.G. Morganti, G.P. Frezza, F. Deodato
- The prediction radiomics model of pseudoprogression in glioblastoma PD - 0650
 Withdrawn
- Diffusion changes in normal-appearing white matter tracts following irradiation in glioma patients PD - 0651
K. Witzmann (Germany), F. Raschke, T. Wesemann, H. Wahl, S. Appold, M. Krause, J. Linn, E.G.C. Troost
- Re-irradiation of recurrent intracranial meningiomas: an Italian multicenter retrospective study PD - 0652
I. Desideri (Italy), I. Morelli, L. Visani, D. Greto, B. Detti, Z. Perini, E. Zivelonghi, G. Bulgarelli, V. Pinzi, P. Navarria, E. Clerici, A.M. Ascolese, P. Anselmo, D. Amelio, M.F. Osti, G. Minniti, L. Livi, D. Scartoni

Target volume delineation for radiotherapy of meningiomas: an ANOCEF consensus guideline. PD - 0653

N. MARTZ (France), J. Salleron, F. Dhermain, G. Vogin, J. Daisne, R. Mouttet-Audouard, R. Tanguy, G. Noel, M. Peyre, I. Lecouillard, J. Jacob, J. Attal, M. Charissoux, O. Veresezan, C. Hanzen, A. Huchet, I. Latorzeff, A. Coutte, J. Doyen, D. Stefan, L. Feuvret, G.C. Garcia, P. Royer

Prospective trial evaluating a novel MR-based 3D-printed head immobilization device (NCT04114786) PD - 0654

P. Jablonska (Spain), N. LaMacchia, A. Parent, H. Chan, M. Filleti, M. Ramotar, Y. Cho, A. Santiago, M. Braganza, A. Bandzynski, N. Laperriere, D. Shultz, T. Conrad, D. Tsang, B. Millar, T. Tadic, A. Berlin

Stereotactic ablative radiosurgery (SABR) for spinal metastases: 12-years of experience PD - 0655

R. Ciervide (Spain), O. Hernando, M. López, Á. Montero, E. Sánchez, B. Álvarez, M. García-Aranda, J. Valero, X. Chen, K. Rossi, C. Cañadillas, C. Rubio

Evaluation of an interactive, multi-language, neurocognitive app in CNS radiation oncology PD - 0656

R. Kotecha (USA), T. Kutuk, M. Rubens, A. Balda, Y. Odi, M. Hall, S. Ramos, M. Ramirez, A. Mohler, M. McDermott, M. Ahluwalia, M. Mehta

Track: Physics

Poster Discussion: Imaging

Sunday, 14 May 2023 16:45 - 17:45

Business Suite 3-4

Sub-second speed 4D-CT image registration using deep learning PD - 0657

T. van der Meulen (The Netherlands), O. Pastor-Serrano, S. Habraken, Z. Perkó

Use of 4DMRI acquired on an MR-Linac to quantify intra-fraction motion in pancreatic cancer PD - 0658

J. Gough (United Kingdom), A. Wetscherek, B. Lecoeur, S. Alexander, R. Westley, B. Ng-Cheng-Hin, A. Hunt, K. Aitken

Are paediatric-specific neural network models needed for auto-segmentation of organs on CT images? PD - 0659

K. Kumar (Australia), L. McIntosh, A. Yeo, T. Kron, R. Franich

CBCT Deep Learning Model to Predict Extreme Prostate Motion Verified by Ultrasound Probe PD - 0660

C.G.A. Chua (Singapore), E.P.P. Pang, W.Y.C. Koh, A.D. Abdul Mutalib, W.C. Chong, K.S. Lew, P.L. Yeap, K.W. Ang, S.Y. Park, J.C.L. Lee, J.K.L. Tuan, H.Q. Tan

Dosimetric comparison: Virtual Unenhanced Dual Energy CT versus contrast CT for treatment planning PD - 0661

M. Afifah (The Netherlands), D. den Boer, L. Bulthuis, T. Rosario, J. Verbeek-Spijkerman, A. Bel, Z. van Kesteren

Evaluation of Ethos HyperSight imaging performance compared to standard CBCT and FBCT PD - 0662

C. Fallone (Canada), L. MacDonald, A. Cherpak, K. Chytk-Praznik, J. Robar

Deep learning cycleGAN MRI-only synthetic-CT generation for pelvis, brain and head and neck cancers PD - 0663

D. Bird (United Kingdom), R. Speight, S. Andersson, J. Wingqvist, B. Al-Qaisieh

How do motion-compensated MRI techniques affect visualization of a moving object for RT planning?	PD - 0664
<u>A. van Lier (The Netherlands)</u> , P. Borman, M. Fast, B. Raaijmakers	
Do CBCT-based image synthesis models need to be machine-specific?	PD - 0665
<u>C. Sargeant (United Kingdom)</u> , J. Shortall, A. Green, R. Chuter, A. McWilliam	
Dose reduction for respiratory signal-guided step-and-shoot 4DCT by online dose modulation	PD - 0666
<u>R. Werner (Germany)</u> , A. Schwarz, L. Wimmert, L. Büttgen, M. Vornehm, T. Gauer, C. Hofmann	
The effect of low MR field strength on prostate volume delineation (an MR-Linac study)	PD - 0667
<u>B. kalkhoven (The Netherlands)</u> , H. Peulen, T. Budiharto, P. van der Toorn, M. Hilberts, S. Tetar, R. Tijssen	
Phantom measurements of apparent diffusion coefficient on a 0.35T MR-Linac	PD - 0668
<u>P. Wallimann (Switzerland)</u> , B. Pouymayou, M. Mayinger, S. Nowakowska, A. Boss, M. Guckenberger, S. Tanadini-Lang, N. Andratschke	

Track: Physics

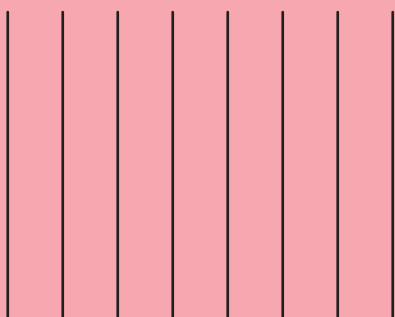
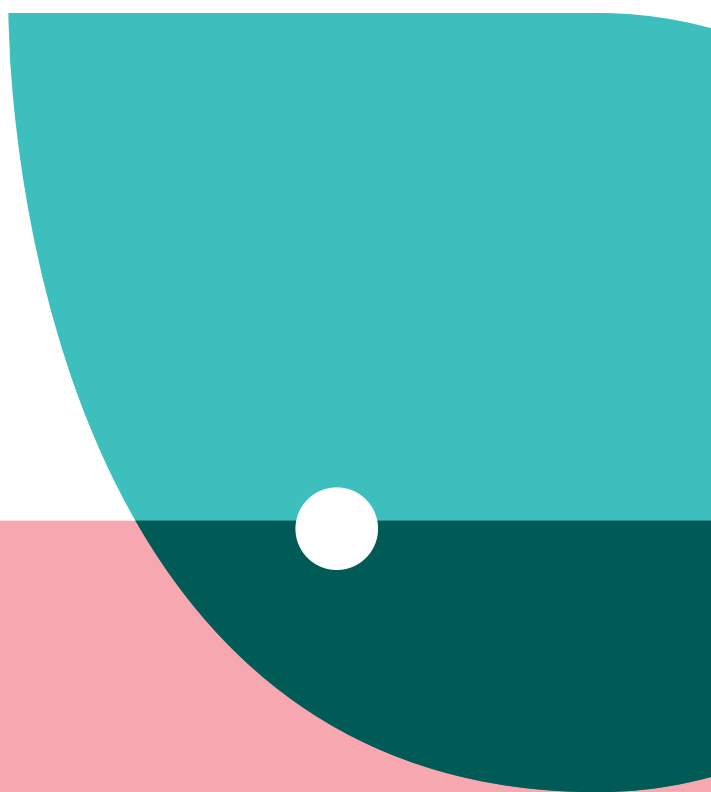
Mini-Oral: Detectors & dose management

Sunday, 14 May 2023 16:45 - 17:45

Stolz 1

First in vivo proof-of-concept of nanodroplet-mediated ultrasound-based proton range verification	MO - 0669
<u>B. Carlier (Belgium)</u> , G. Collado-Lara, S. Heymans, Y. Toumia, L. Musetta, G. Paradossi, H. Vos, K. Van Den Abeele, J. D'hooge, U. Himmelreich, E. Sterpin	
Fluctuation in dose measurement resulting from small spot size and spot positional uncertainty	MO - 0670
<u>H.Q. Tan (Singapore)</u> , Z. Master, K.S. Lew, C.W.Y. Koh, A. Wibawa, J.C.L. Lee, S.Y. Park	
Bragg Peak range verification, evaluation of a commercial scintillator-based device	MO - 0671
<u>A. Grimwood (United Kingdom)</u> , J. Pires Afonso, T. Naylor-Clements, S. K. W. Chung, V. Marin Anaya, A. Warry	
Measurement of anatomical changes during proton therapy using the PETITION PET detector	MO - 0672
<u>K. McNamara (Switzerland)</u> , M. Béguin, E. Choulilitsa, G. Dissertori, J. Flock, C. Fuentes, J. Hrbacek, S. Makkar, C. Ritzer, D.C. Weber, A. Lomax, C. Winterhalter	
Experimental characterization of two novel MR-conditional ionization chambers in magnetic fields	MO - 0673
<u>M. Schneider (Germany)</u> , S. Frick, M. Nachbar, R. Kapsch, D. Thorwarth	
Benchmarking and clinical application of the ClearView / VistaScan / VistaAce 3D dosimetry system	MO - 0674
<u>K. Lakrad (USA)</u> , M. Oldham, J. Adamson	
Multi-detector dosimetry of a novel system for stereotactic radiotherapy of the breast	MO - 0675
<u>P. Scalchi (Italy)</u> , E. Moretti, M. Guernieri, V. Gagliardi, D. Marfisi	
Monte Carlo calculated kQ factors for ionization chambers in modulated proton beams	MO - 0676
<u>K. Baumann (Germany)</u> , L. Derksen, V. Flatten, M. Witt, R. Engenhardt-Cabillic, K. Zink	

Monday
15 May 2023



*Track: Interdisciplinary***Teaching Lecture: FAIR data management in radiation biology and radiation oncology research**

Monday, 15 May 2023 08:00 - 08:40

Schubert

Chair: Balazs Madas

08:00 FAIR data management in radiation biology and radiation oncology research
L. Slater (United Kingdom)

SP - 0677

*Track: Young***Teaching Lecture: Future-proofing radiotherapy access: The fine balance between preferences and sustainability**

Monday, 15 May 2023 08:00 - 08:40

Strauss 2

Chair: Anne Gasnier

08:00 Future-proofing radiotherapy access: The fine balance between preferences and sustainability
M. Vandemaele & Y. Lievens (Belgium)

SP - 0678

*Track: Clinical***Teaching Lecture: Modern radiotherapy techniques in skin cancer**

Monday, 15 May 2023 08:00 - 08:40

Hall A

Chair: Agata Rembielak

08:00 Modern radiotherapy techniques in skin cancer
E. Barnes (Canada)

SP - 0679

*Track: Clinical***Teaching Lecture: Integration of radiotherapy into new therapeutic algorithms for lymphomas**

Monday, 15 May 2023 08:00 - 08:40

Plenary Hall

Chair: Valentine Martin

08:00 Integration of radiotherapy into new therapeutic algorithms for lymphomas
N.G. Mikhaeel (United Kingdom)

SP - 0680

*Track: Physics***Teaching Lecture: Justification and dose optimisation in IGRT practices**

Monday, 15 May 2023 08:00 - 08:40

Lehar 1-3

Chair: N ria Jornet

08:00 Justification and dose optimisation in IGRT practices
G. Ntentas (United Kingdom)

SP - 0681

*Track: Physics***Teaching Lecture: Voxel-based modelling for NTCP predictions: State-of-the-art methodology and beyond**

Monday, 15 May 2023 08:00 - 08:40

Strauss 1

Chair: Laura Cella

08:00 Voxel-based modelling for NTCP predictions: State-of-the-art methodology and beyond SP - 0682
A. McWilliam (United Kingdom)

*Track: RTT***Teaching Lecture: Combining immunotherapy with radiotherapy**

Monday, 15 May 2023 08:00 - 08:40

Strauss 3

Chair: Ilija Curic

08:00 Combining immunotherapy with radiotherapy SP - 0683
T. Illidge (United Kingdom)

*Track: Interdisciplinary***Symposium: Adaptive radiotherapy: What do we know in 2023?**

Monday, 15 May 2023 08:45 - 10:00

Schubert

Chair: Florence Huguet

Co-Chair: Liv Bolstad Hysing

08:45 What are the clinical benefits of adaptive radiotherapy? SP - 0684
O. Riou (France)

09:03 Physicists' challenges in clinical routines SP - 0685
R. Dal Bello (Switzerland)

09:21 RTT-only online adaptive radiotherapy SP - 0686
R. de Jong (The Netherlands)

09:39 What is the role of offline adaptive radiotherapy in the area of online adaptive radiotherapy? SP - 0687
L. Hoffmann (Denmark), A.I.S. Holm, D.S. Møller

*Track: Young***Symposium: Our resources are limited! An insight on optimising radiotherapy resources for the future**

Monday, 15 May 2023 08:45 - 10:00

Strauss 2

Chair: Danique Barten

Chair: Vania Batista

08:45 Architectural design for optimised radiotherapy departments SP - 0688
C. Kolodziej (Germany)

09:03 1+1=3, no delays, everything is on time! SP - 0689
N. Hoffmans-Holtzer (The Netherlands)

09:21	The best resource we can offer our patients is consistency/personal care <u>Y.M. Tsang (Canada)</u>	SP - 0690
09:39	How to implement new techniques when resources are limited... <u>M. Topeshashvili (Georgia)</u>	SP - 0691

*Track: Clinical***Debate: This house believes that internal mammary node irradiation of high-risk breast cancer should be the standard of care today**

Monday, 15 May 2023 08:45 - 10:00

Hall A

	Chair: Pierfrancesco Franco	-
	Chair: Philip Poortmans	-
08:45	Introduction & voting	SP - 0692
08:48	For the motion <u>B. Offersen (Denmark)</u>	SP - 0693
09:03	Against the motion <u>D. Wheatley (The Netherlands)</u>	SP - 0694
09:18	For the motion - rebuttal <u>O. Kaidar-Person (The Netherlands)</u>	SP - 0695
09:33	Against the motion - rebuttal <u>M. Arenas (Spain)</u>	SP - 0696
09:48	Discussion & voting	SP - 0697

*Track: Clinical***Symposium: Balancing the safety profile of SBRT**

Monday, 15 May 2023 08:45 - 10:00

Plenary Hall

	Co-Chair: Carlotta Becherini	-
	Chair: Matthias Guckenberger	-
08:45	Balancing toxicity in pulmonary SBRT <u>J. Hörner-Rieber (Germany)</u>	SP - 0698
09:03	Balancing abdominal toxicity after liver SBRT <u>A. Mendez-Romero (The Netherlands)</u>	SP - 0699
09:21	Balancing toxicity in pelvic SBRT <u>N. van As (United Kingdom)</u>	SP - 0700
09:39	Balancing toxicity when SBRT is combined with systemic therapy <u>B. Jereczek-Fossa (Italy)</u>	SP - 0701

*Track: Physics***Symposium: Smaller and faster: Updates in dosimetry and detectors**

Monday, 15 May 2023 08:45 - 10:00

Lehar 1-3

Co-Chair: Klara Uher

-

Chair: Livia Marrazzo

-

08:45 Dosimetry for small fields in radiotherapy; Current status & future requirements
M. Aspradakis (Switzerland)

SP - 0702

09:10 Dosimetry for FLASH radiotherapy: challenges and recent developments
F. Romano (Italy)

SP - 0703

09:35 Traceable dosimetry in FLASH radiotherapy and detectors for very small fields
A. Subiel (United Kingdom)

SP - 0704

*Track: Physics***Symposium: The physics of late effects**

Monday, 15 May 2023 08:45 - 10:00

Strauss 1

Chair: Giuseppe Palma

-

Chair: James Bates

-

08:45 Methods for dose reconstruction in late effect studies - What levels of accuracy are reasonable and expected?
R. Howell (USA)

SP - 0705

09:03 Image-based biomarkers of late effects
C. Stokkevåg (Norway)

SP - 0706

09:21 Evaluating the accuracy of models: are we critical enough?
A. Appelt (United Kingdom)

SP - 0707

09:39 Do we need MORE models?: Clinical translation and barriers
T. Rancati (Italy)

SP - 0708

*Track: RTT***Symposium: Optimising IGRT and motion management strategies**

Monday, 15 May 2023 08:45 - 10:00

Strauss 3

Co-Chair: Mairead Daly

-

Chair: Sophie Perryck

-

08:45 Advances in breast image guided radiotherapy
M. Mast (The Netherlands)

SP - 0709

09:10 Challenges with targeting, deformation and breathing motion in upper abdominal IGRT
M. Velec (Canada)

SP - 0710

09:35 IGART Strategies in Complex SBRT
G. Lawler (Ireland)

SP - 0711

Track: Clinical

Mini-Oral: Head & neck

Monday, 15 May 2023 09:00 - 10:00

Stolz 1

Compliance to the PATHOS swallowing OAR atlas and impact on predicted dysphagia for trial patients MO - 0712

E. Higgins (United Kingdom), N. Palaniappan, R. Webster, Z. Nabi, R. Lad, K. Elliott, E. Miles, J. Canham, L. Nixon, C. Hurt, C. Heiberg, M. Beasley, T. Jones, M. Evans

Inter-expert observer variance of organs at risk according to the DAHANCA guidelines MO - 0713

K. Jensen (Denmark), E. Lorentzen, J.G. Eriksen, J. Johansen, N. Gyldenkerne, R. Zukauskaitė, M. Kjellgren, E. Andersen, C. Maare, C.K. Lønkvist, K. Nowicka-Matus, W. Szejniuk, M. Farhadi, Z. Ujmajuridze, K. Marienhagen, T.S. Johansen, B.S. Kristensen, J. Friborg, J. Overgaard, C.R. Hansen

Statistical comparison between GTV and gold standard contour on AI-based registered histopathology MO - 0714

A. Leroy (France), A. Cafaro, A. Champagnac, M. Classe, G. Gessain, N. Benzerdjeb, P. Gorphe, P. Zrounba, V. Lepetit, N. Paragios, E. Deutsch, V. Grégoire

Tumor volume and cancer stem cells as prognostic markers for loco-regional control in HNSCC MO - 0715

M.H. Kristensen (Denmark), J. Alsner, B.S. Sørensen, C.R. Hansen, R. Zukauskaitė, E. Samsøe, C. Maare, J. Johansen, H. Primdahl, A. Bratland, C.A. Kristensen, M. Andersen, J.K. Lilja-Fischer, T. Tramm, J. Overgaard, J.G. Eriksen

Falls in lymphocyte counts during radiotherapy predict cisplatin benefit in oropharynx cancer MO - 0716

J. Price (United Kingdom), D. Thomson, G. Price, H. Mistry, C. West, R. Prestwich, Z. Iyizoba-Ebozue

Seasonality of radiotherapy efficacy for head & neck cancer patients: MACH-NC/MARCH meta-analyses MO - 0717

P. Blanchard (France), B. Lacas, J. Bourhis, E. Limkin, M. Parmar, L. Licitra, Q. Le, C. Fortpied, J. Langendijk, J. Vermorken, J. Bernier, A. Trotti, J. Overgaard, J. Harris, J. Pignon, A. Aupérin

Improved tolerance and treatment intensity in patients with locally advanced head and neck cancer MO - 0718

C. Billard-Sandu (France), P. Blanchard, Y.G. Tao, F. Nguyen, G. Dumitrescu, E. Rassy, T. Assi, J. Zeghondy, R. Sun, F. Scotte, M. Di Palma, I. Breuskin, S. Temam, S. Akla, E. Deutsch

Chemoradiation in older head-and-neck squamous cell carcinoma patients - A multicenter analysis MO - 0719

A. Rühle (Germany), S. Marschner, M. Haderlein, A. Fabian, C. Senger, D.R. Dickstein, J. Kraft, J.V.D. Grün, E. Chen, T. Aquino-Michaels, J. Domschikowski, A. Bickel, A. Altay-Langguth, V. Lewitzki, K. Ferentinos, S. Schnellhardt, M. Guckenberger, V. Budach, C. Belka, R. Bakst, A. Mayer, A. Grosu, P. Balcermpas, C. Stromberger, N.H. Nicolay

Track: Radiobiology

Mini-Oral: Radiobiology

Monday, 15 May 2023 09:00 - 10:00

Stolz 2

Proton FLASH: Impact of dose rate on biological response in an acute damage mouse model MO - 0720

P. Poulsen (Denmark), E. Kanouta, M. Sitarz, C. Ankjærgaard, J. Johansen, C. Andersen, C. Grau, B. Sørensen

Radio-selective effects of a muscle-derived dipeptide in an external beam treated NSCLC mouse model MO - 0721

Withdrawn

GPD1 expression in glioblastoma stem cells confers radiation resistance MO - 0722

C. Xu (Germany), M. Roscher, Y. Zhuo, W. Tian

Previous Irradiation Impairs the DNA DSB Repair System in Sheep Lung-Derived Epithelial Cells. MO - 0723

L. Bodgi (Lebanon), J. Al-Choboq, J. Azzi, J. Bou Gharios, C. Feghaly, R. Challita, H. Bou Hadir, F. Abi Antoun, L. Dib, M. Jammal, F. Olleik, T. Araji, P. Taddei, F. Geara, L. Dosch, P. Sfeir, A. Jurjus, W. Abou Kheir, B. Youssef

Visualising the radiation-induced DNA damage response in real-time in live glioblastoma cells MO - 0724

S. Derby (United Kingdom), K. Stevenson, K. Strathdee, V. Brunton, A. Chalmers, P. Thomason, E. McGhee, E. Curley, L. Carlin, L. Dutton, J. Birch, R. Carruthers

Radiomics-based prediction of radiosensitivity from preclinical HNSCC histopathology images MO - 0725

S. Michlikova (Germany), A. Rabasco Meneghetti, A. Rabasco Meneghetti, S. Löck, A. Yakimovich, T. Rassamegevanon, C. von Neubeck, A. Dietrich, M. Krause

Doxorubicin enhances the abscopal effect depending on tumor cell mitochondrial DNA and STING MO - 0726

L. Wang (Germany), R. Luo, K. Onyshchenko, G. Niedermann

Androgen deprivation therapy reduces the RT-induced bladder toxicity in a pre-clinical model MO - 0727

R. Vago (Italy), F. Vurro, G. Colciago, G. Fallara, S. Zuppone, L. Alborghetti, N. Di Muzio, A. Spinelli, C. Fiorino, C. Cozzarini

Track: RTT

Poster Discussion: Education is the RTT superpower

Monday, 15 May 2023 09:00 - 10:00

Business Suite 1-2

Standardizing Definition of Advanced Practice Radiation Therapy Clinical Activities: Ontario, Canada PD - 0728

K. Chan (Canada), K. Linden, B. Chan, D. Erler, L. D'Almonté, V. Kong, J. Kraus, N. Harnett

Setting up a learning community in a clinical department; experiences & results from a 2-year pilot PD - 0729

M. Kamphuis (The Netherlands), M. Soumokil, P. Bouwmeester, F. Wit, M. van Klink – de Goeij, H. Bijwaard

Experience of the Initial Implementation of an ePROMs Service for Patients with Head and Neck Cancer PD - 0730

L. Pascal (United Kingdom), M. Van Hemelrijck, T. Guerrero Urbano, M. Lei

Online education sessions for RTTs of low- and middle-income countries in Asia-Pacific PD - 0731

A. Leong (New Zealand), C. Opie, C. Vartak, I. Ward

Two roads to the same place; comparison of face-to-face and distance training for Prostate SABR IGRT PD - 0732

J. Rodgers (United Kingdom), A. Booth, L. Roberts, E. Cox, S. Groves, E. Reeves, S. Bashir, R. Kelly, R. Breece, S. Tweedly, C. Triffitt

RADAR Project: pediatric patients AI-profiling, focus on clinical and psychological outcomes	PD - 0733
<u>E. Marconi (Italy), E. Meldolesi, F. Beghella Bartoli, F.P. Kraja, S. Mariani, G. Panza, A. Mastronuzzi, A. Ruggiero, M.A. Gambacorta, V. Valentini, M. Balducci, D.P.R. Chieffo, S. Chiesa</u>	
Guidance for simulation to enhance education of pre-registration Therapeutic Radiographers	PD - 0734
<u>N. Hutton (United Kingdom), S. Ketterer</u>	
Developing training for RTT-led CBCT-guided daily online adaptive radiotherapy for urological cancer	PD - 0735
<u>S. Graham (United Kingdom), K. Daly, A. Ward, M. Martinou, D. Withers, G. Kidane, E. Almond</u>	
Enhancing RTT Education Through UDL: A Spotlight on Treatment Planning	PD - 0736
<u>E. Forde (Ireland)</u>	
Internationally led remote IGRT training and outcomes for RTTs in Mainland China	PD - 0737
<u>A. Leong (New Zealand), S. Kirrane, B. Huang, C. Smith</u>	
'We need to talk': Patient experiences of radiotherapy for gynaecological cancers	PD - 0738
<u>D. Hutton (United Kingdom), L. Ashmore, M. Kragh-Furbo, L. Salisbury, L. Appleton, H. Stewart, V. Singleton</u>	
Evaluation of a radiotherapy late effects service	PD - 0739
<u>S. Bostock (United Kingdom), G. Bestwick, E. Smith</u>	

Track: Physics

Poster Discussion: Inter-intra fraction

Monday, 15 May 2023 09:00 - 10:00

Business Suite 3-4

Which cervical cancer patients need adaptive planning? A new approach to predicting target motion	PD - 0740
<u>L. Wang (United Kingdom), S. Mason, D. McQuaid, M. Blackledge, H. McNair, E. Harris, S. Lalondrelle</u>	
Online adaptive radiotherapy for low volume metastasized prostate cancer on the CyberKnife system	PD - 0741
<u>V. Brand (The Netherlands), M.T. Milder, F.E. Froklage, M.E. Christianen, K.C. de Vries, M.S. Hoogeman, L. Incrocci</u>	
Accuracy of four models and update strategies to estimate liver tumor motion from external motion	PD - 0742
<u>P. Samadi Miandoab (Denmark), E. Worm, R. Hansen, B. Weber, M. Høyer, P. Poulsen</u>	
Single-dose Ablative Radiation Therapy for prostate cancer with target motion mitigation.	PD - 0743
<u>D. Panizza (Italy), V. Faccenda, R. Lucchini, M.C. Daniotti, S. Trivellato, P. Caricato, E. De Ponti, S. Arcangeli</u>	
Abdominal compression as motion management for stereotactic radiotherapy of ventricular tachycardia?	PD - 0744
<u>A. Mannerberg (Sweden), A. Edvardsson, M. P Nilsson, K. Karlsson, S. Ceberg</u>	
Benefit of Magnetic Resonance guided adaptive radiotherapy for treatment of pancreatic lesions	PD - 0745
<u>T. Zoto Mustafayev (Turkey), G. Ugurluer, A. Serkizyan, G. Gungor, B. Atalar, E. Ozyar</u>	

Dosimetric consequence of intra-fractional motion for stereotactic treatment of central lung lesions	PD - 0746
<u>S.N. Thomsen (Denmark)</u> , D.S. Møller, M. Knap, T.B. Nyeng, L. Hoffmann	
Topographical and chronological analysis of 2500 intrafraction SGRT records	PD - 0747
<u>J. Torrès (Finland)</u> , A. Korhonen, I. Kulman	
Evaluation of intrafraction duodenum positional stability for pancreatic SABR on the MR-Linac	PD - 0748
<u>M. Daly (United Kingdom)</u> , A. Choudhury, R. Chuter, B. Erickson, W. Hall, A. McWilliam, E. Vasquez Osorio, G. Radhakrishna, H. Verkooijen, C. Eccles	
In silico trial of CBCT-stereotactic adaptive radiation for the ultra-central thorax (NCT04008537)	PD - 0749
<u>J. Schiff (USA)</u> , E. Laugeman, H. Stowe, X. Zhao, J. Hilliard, E. Hawk, J. Watkins, C. Hatscher, S. Badiyan, P. Samson, G. Hugo, A. Price, L. Henke	
Systematic investigation of setup positioning for MRI-guided RT of the upper extremity	PD - 0750
<u>M. Cobanaj (Germany)</u> , S. Schneider, E. Troost, A. Hoffmann	
Experimental verification of accumulated dose of multifraction plan adaptations on the MR-linac	PD - 0751
<u>M. van den Dobbelsteen (The Netherlands)</u> , S. Hackett, B. van Asselen, S. Oolbekkink, J. Wolthaus, W. de Vries, B. Raaymakers	

Track: Interdisciplinary

Proffered Papers: Health Services Research

Monday, 15 May 2023 10:30 - 11:30	Schubert
10:30 The role of radiotherapy, surgery and chemotherapy in the cure of cancer. Is radiotherapy still 40%?	OC - 0752
<u>T. Mee (United Kingdom)</u> , K. Kirkby, N. Defourny, N. Burnet	
10:40 Introduction of ultra-hypofractionation in breast cancer: implications for costs and resource use	OC - 0753
<u>S. Busschaert (Belgium)</u> , K. Putman, M. De Ridder	
10:50 Cost-effectiveness analysis of radiotherapy for patients with Ledderhose disease	OC - 0754
<u>A. de Haan (The Netherlands)</u> , H. Groen, J.G. van Nes, P. van der Toorn, A.H. Westenberg, M.W. Kolff, P.M. Werker, J.A. Langendijk, R.J. Steenbakkers	
11:00 Radiotherapy Utilisation and Geriatric Oncology: Lung, Rectal, Prostate and Cervical Cancer	OC - 0755
<u>P. Mackenzie (Australia)</u> , C. Vajdic, G. Delaney, T. Comans, M. Agar, G. Gabriel, M. Barton	
11:10 A first step towards value-based healthcare in radiation oncology: classification of innovations.	OC - 0756
<u>M. Vandemaele (Belgium)</u> , A. Aggarwal, Y. Lievens	
11:20 Radiotherapy treatment volume and associated patient outcomes: a systematic review and meta-analysis	OC - 0757
<u>J.Y.A. Kyaw (United Kingdom)</u> , A. Aggarwal, A. Rendall, E. Gillespie, A. Tree, Y. Lievens, T. Roques, C. Frampton	

*Track: Clinical***Proffered Papers: Late-breaking Papers**

Monday, 15 May 2023 10:30 - 11:30

Plenary Hall

Chair: Pierre Blanchard

-

Chair: Ben Slotman

-

10:30 HypoG01:UNICANCER phase 3 trial of locoregional hypo vs normo fractionated RT in early breast cancer OC - 0758

S. Rivera (France), E. Karamouza, Y. Kirova, S. Racadot, M. Benchalal, J.B. Clavier, C. Charra Brunaud, M. Fouche-Chand, D. Argo-Leignel, K. Peignaux, A. Benyoucef, D. Pasquier, P. Guilbert, J. Blanchecotte, A. Tallet, A. Petit, G. Bernadou, X. Zasadny, C. Lemanski, J. Fourquet, N. Bonnet, A. Lamrani-Ghaouti, M. Bergeaud, G. Auzac, S. Michiels

10:40 Shared Decision Making with breast cancer patients - does it work? The randomized DBCG RT SDM trial OC - 0759

S. Rauff Søndergaard (Denmark), T. Bechmann, B. Vrou Offersen, A. WM Nielsen, M. Holck Nielsen, M. Møller, L. L. Berry, R. Zachariaee, K. Dahl Steffensen

10:50 A randomized trial of concurrent versus sequential Tamoxifen with radiotherapy for breast cancer OC - 0760

A. Budrukkar (India), A. Munshi, N. Purandare, S. Puri, S. Lewis, R. Krishnamurthy, R. Jalali, T. Wadasadawala, V. Parmar, N. Nair, S. Gupta, R. Upreti, R. Pathak, V. Rangarajan, R. Sarin, R. Badwe

11:00 CORE - Standard of care +/- stereotactic body radiotherapy for oligometastases - primary results OC - 0761

V. Khoo (United Kingdom), A. Kirby, M. Ahmed, M. Dewan, N. Van As, K. Franks, M. Hawkins, S. Jain, P. Ostler, I. Syndikus, A. Tree, F. Foroudi, D. Pryor, K. Aitken, E. Miles, R. Patel, F. McDonald, S. Patton, D. Price, C. Toms, L. Kilburn, N. Iles, Z. Gurreebun, E. Hall, O.B. of

11:10 Single fraction SBRT vs 3D-CRT for painful bone metastases: a single-blind phase 3 RCT (NCT03831243) OC - 0762

C. Mercier (Belgium), C. Billiet, G. De Kerf, K. Vandecasteele, P. Ost, I. Joye, P. Vermeulen, L. Dirix, Y. Lievens, D. Verellen, P. Dirix

11:20 SAbR in LA-NSCLC patients unfit for concurrent ChT-RT: START-NEW-ERA non-randomised phase II trial OC - 0763

F. Arcidiacono (Italy), P. Anselmo, M. Casale, C. Zannori, F. Loreti, M. Ragusa, B. Enrico, F. Manciola, G. Marchetti, M. Italiani, S. Fabiani, A. Guida, V. Tassi, C. Caprera, M. Corsi, S. Bracarda, E. Maranzano, F. Trippa

*Track: Clinical***Proffered Papers: Breast**

Monday, 15 May 2023 10:30 - 11:30

Hall A

10:30 The rate and spatial location of local recurrences: Results from the EORTC 22922/10925 OC - 0764

O. Kaidar-Person (Israel), P. Giasafaki, L. Boersma, P. De Brouwer, C. Weltens, C. Kirkove, K. Peignaux-Casasnovas, V. Budach, F. van der Leij, E. Vonk, N. Weidner, S. Rivera, G. van Tienhoven, A. Fourquet, G. Noel, M. Valli, M. Guckenberger, E. Koiter, S. Racadot, R. Abdah-Bortnyak, H. Bartelink, H. Struikmans, C. Fortpied, P. Poortmans

10:40 Pre-operative single-dose partial breast irradiation: five-year results of the ABLATIVE trial OC - 0765

Y. Civil (The Netherlands), J. Vasmel, R. Charaghvandi, A. Houweling, C. Vreuls, P. van Diest, A. Witkamp, A. Doeksen, T. van Dalen, J. Felderhof, I. van Dam, B. Slotman, A. Kirby, H. Verkooijen, D. van den Bongard

10:50	Gain from respiratory gating in left-sided partial breast irradiation in the DBCG PBI trial <i>K. Høgsbjerg (Denmark), E. Maae, A.N. Pedersen, M. Møller, M.H. Nielsen, M.S. Thomsen, B.V. Offersen</i>	OC - 0766
11:00	Effect of manual lymph drainage in people with breast cancer-related lymphedema: EForT-BCRL trial <i>T. De Vrieze (Belgium), I. Nevelsteen, N. Gebruers, S. Fieuws, S. Thomis, A. De Groef, W. Tjalma, J. Belgrado, L. Vandermeeren, C. Monten, M. Hanssens, N. Devoogdt</i>	OC - 0767
11:10	Breast induration and irradiated volume in the DBCG HYPO trial: The importance of age and smoking <i>M.S. Thomsen (Denmark), J. Alsner, C.M. Lutz, M. Berg, I. Jensen, E.L. Lorenzen, D.S. Møller, H.M. Nielsen, E.H. Jakobsen, L. Stenbygaard, M.H. Nielsen, M. Jensen, J. Overgaard, B.V. Offersen</i>	OC - 0768
11:20	Radio-induced lung injury: clinical and dosimetric risk factors in a subset of the CANTO RT cohort <i>A. Gueiderikh (France), T. Sarrade, Y. Kirova, B. De La Lande, F. De Vathaire, G. Auzac, A.L. Martin, S. Everhard, B. Duchemann, R. Allodji, S. Rivera</i>	OC - 0769

*Track: Physics***Proffered Papers: Detectors and dose verification**

Monday, 15 May 2023 10:30 - 11:30

Lehar 1-3

10:30	Anthropomorphic pancreas phantom with real-time breathing motion for Carbon-Ion radiotherapy <i>C. Stengl (Germany), I.D. Munoz, K. Panow, E. Arbes, A. Neuholz, S. Brons, A. Runz, G. Echner, J. Liermann, O. Jäkel</i>	OC - 0770
10:40	Towards optimised characterisation of ion beam quality using microdosimeters of different thickness <i>G. Parisi (United Kingdom), F. Romano, G. Schettino</i>	OC - 0771
10:50	Development of a gamma-ray detector for dose monitoring in BNCT <i>A. Caracciolo (Italy), D. Di Vita, T. Ferri, M. Carminati, N. Protti, S. Altieri, F. Camera, C. Fiorini</i>	OC - 0772
11:00	Correcting medical range fiber Bragg gratings dosimeter temperature dependencies <i>M. Lebel-Cormier (Canada), T. Boilard, M. Bernier, L. Beaulieu</i>	OC - 0773
11:10	Image quality of a proton radiography system using 2D lateral projections for image guidance <i>M. Simard (United Kingdom), D. Robertson, R. Fullarton, A. Toltz, C. Baker, S. Beddar, C. Collins-Fekete</i>	OC - 0774
11:20	Comprehensive proton dose prediction with Bayesian LSTMs <i>L. Voss (Germany), A. Neishabouri, T. Ortkamp, N. Wahl</i>	OC - 0775

*Track: Physics***Proffered Papers: Novel applications of MR imaging**

Monday, 15 May 2023 10:30 - 11:30

Strauss 1

10:30	Are MRI scans needed for precise image-based data mining in paediatric brain tumour cohorts? <i>A. Bryce-Atkinson (United Kingdom), E. Vasquez Osorio, A. Green, A.M. Faught, M.G. McCabe, T.E. Merchant, M. van Herk, M.C. Aznar, L.J. Wilson</i>	OC - 0776
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10:40	Automated analysis of internal facial asymmetry on MRI in children <i>A. Davey (United Kingdom), A. Bryce-Atkinson, E. Vasquez Osorio, M. van Herk, A. Datta, S. Pan, P. Sitch, G. Whitfield, M. Aznar</i>	OC - 0777
10:50	Quantitative 3T MRI assessment of radiation-induced damage to healthy tissues in H&N cancer patients <i>E. Astreinidou (The Netherlands), F. Guerreiro, P.J. van Houdt, R. Navest, B.M. Verbist, M.A. de Jong, N. Hoekstra, S. Zijlema, U.A. van der Heide</i>	OC - 0778
11:00	Reconstruction of lung tumour volumes from 4D-MRI: the use of a tumour-derived respiratory signal <i>M. Warren (United Kingdom), A. Barrett, N. Bhalla, M. Brada, D. Cobben, J. McClelland, L. Turtle, J. Fenwick</i>	OC - 0779
11:10	Delivered dose reconstruction for MR-guided SBRT of pancreatic tumors with fast 3D cine MRI <i>G. Grimbergen (The Netherlands), G. Pötgens, H. Eijkelenkamp, B. Raaymakers, M. Intven, G. Meijer</i>	OC - 0780
11:20	Histopathology-validated GTV delineations of intra-prostatic lesions with mpMRI and PSMA-PET <i>J. Grefve (Sweden), K. Sandgren, J. Jonsson, A. Keeratijarut Lindberg, E. Nilsson, S. Strandberg, A. Bergh, K. Söderkvist, B. Zackrisson, A. Gunnlaugsson, M. Moreau, C. Thellenberg Karlsson, L. E. Olsson, B. Friedrich, A. Widmark, L. Blomqvist, V. Berg Loegager, J. Axelsson, M. Ögren, K. Riklund, T. Nyholm</i>	OC - 0781

Track: RTT

Proffered Papers: Impact on daily treatment planning

Monday, 15 May 2023 10:30 - 11:30

Strauss 3

10:30	Impact of advancing radiographer practice on MRL treatment times <i>A. Clough (United Kingdom), R. Benson, C. Nelder, L. McDaid, L. Freear, R. Chuter, J. Berresford, C. Eccles</i>	OC - 0782
10:40	treatment outcome prediction from modeling the clinical target distribution for high-grade gliomas <i>W. Häger (Sweden), M. Lazzeroni, M. Astaraki, I. Toma-Dasu, W. Häger</i>	OC - 0783
10:50	Dosimetric comparison between IMRT and Hyperarc in re-RT of recurrent nasopharyngeal carcinoma <i>K.K. Tong (Hong Kong (SAR) China)</i>	OC - 0784
11:00	Organized peer reflection to improve sustainable treatment planning competencies for lung cancer <i>M. de Rooy (The Netherlands), C. Meevissen-Dijcks, P. Simons, B. Hanbeukers, R. Canters, W. van Elmpt, M. Bogowicz</i>	OC - 0785
11:10	Modified margin-based pelvic radiotherapy optimizes therapeutic ratio in gynecological cancer <i>J. Lee (Taiwan), J. Lin, Y. Chen, M. Wu, C. Chang</i>	OC - 0786
11:20	Proton-based RT enables target dose escalation in oesophageal cancer with limited impact on OAR dose <i>P. Klinker (The Netherlands), S. Visser, E. Korevaar, M. Dieters, C. Ijsbrandy, J. Beukema, J. Langendijk, C. Muijs</i>	OC - 0787

*Track: Young***Speed Dating: Speed dating**

Monday, 15 May 2023 10:30 - 11:30

Strauss 2

Chair: Daan Nevens

-

Chair: Amanda Webster

-

10:30 TBC

SP - 0788

*Track: RTT***Mini-Oral: Improving the patient experience**

Monday, 15 May 2023 10:30 - 11:30

Stolz 1

Patient experience of head and neck treatment on a 1.5T MRLinac: is our adaptive solution tolerable?

MO - 0789

H. Barnes (United Kingdom), S. Alexander, S. Bhide, A. Dunlop, A. Gupta, K. Harrington, T. Herbert, K.H. Wong, H. McNair

Reproducibility of the patient's extremities positioning in the total marrow irradiation treatment

MO - 0790

S.L. Antonetti (Italy), N. Lambri, D. Dei, G. Reggiori, C. Franzese, S. Tomatis, P. Navarria, C. Galdieri, M. Scorsetti, P. Mancosu

Confidence in Assessing, Managing & Teaching Radiation Induced Skin Reactions (RISR) in the UK

MO - 0791

N. Julka-Anderson (United Kingdom), H. Probst, R. Harris

Educational program for RTTs in MR guided RT: a collaboration between university and professionals

MO - 0792

L. Meijers (The Netherlands), A. van Nunen, M. Kamer, W. de Vries, K. Crama, E. Geerlof, P. Koolhof, R. Tijssen, D. den Boer

How to empower patients and improve deep inspiration breath hold capability.

MO - 0793

H. Probst (United Kingdom), H. Dring, J. Barry, M. Lindley, R. Mather, H. Newton, K. Rigby, J. Ullman, J. Willis

Initial experience with DIBH radiotherapy for left breast cancer using SGRT and bore-based linac

MO - 0794

H. Liang (China), J. Qiu, K. Hu, X. Sun, F. Zhang

Development of a patient decision aid for rectal cancer patients with clinical complete response.

MO - 0795

L. Smets (Belgium), A. Debucquoy, E. Oldenburger, L. Debrun, J. Dekervel, A. D'Hoore, A. Wolthuis, K. Haustermans

Design and evaluation of a virtual tour of a Radiotherapy department to improve patient experience

MO - 0796

N. Hutton (United Kingdom), D. Hutton, M. Kirby, L. Oliver, T. Cummings, C. Butler

*Track: Physics***Mini-Oral: Automation**

Monday, 15 May 2023 10:30 - 11:30

Stolz 2

Deep Learning-assisted delineation of brain metastases: a workflow focusing on AI-expert interaction MO - 0797

F. Putz (Germany), J. Szkitsak, J. Grigo, S. Masitho, T. Weissmann, B. Frey, U.S. Gaipf, R. Fietkau, C. Bert, Y. Huang

Evaluation of target autocontouring for MRI-guided online adaptive treatment of rectal cancer MO - 0798

N. Ferreira Silverio (The Netherlands), W. van den Wollenberg, A. Betgen, L. Wiersema, C. Marijnen, F. Peters, U.A. van der Heide, R. Simoes, T. Janssen

Single-click user input reduces false detection in deep learning head and neck tumor segmentation MO - 0799

J. Ren (Denmark), J. Nijkamp, M.E. Rasmussen, J.G. Eriksen, S.S. Korreman

Is one contour all we need? Rethinking the output of DL tumour auto-segmentation models for OPC MO - 0800

A. De Biase (The Netherlands), N.M. Sijtsema, L. van Dijk, R. Steenbakkers, J. Langendijk, P. van Ooijen

Comparison of AI-based autosegmentation techniques exploiting prior knowledge at a 0.35 T MR-Linac MO - 0801

M. Kawula (Germany), I. Hadi, L. Nierer, M. Vagni, D. Cusumano, L. Boldrini, L. Placidi, S. Corradini, C. Belka, G. Landry, C. Kurz

Automatic target delineation in on-line adaptive H&N IMPT with plan library approach. Are we ready? MO - 0802

M. Giżyńska (The Netherlands), M. Oud, S. Breedveld, B. Heijmen, M. Hoogeman

Automated online adaptive dose restoration using cross-entropy objectives MO - 0803

I. Bengtsson (Sweden), A. Finnsen

Is more and bigger also better? Impact of dataset and model size in deep learning dose prediction MO - 0804

J. van Genderingen (The Netherlands), D. Nguyen, F. Knuth, H. Nomair, L. Incrocci, A. Sharfo, U. Oelfke, S. Jiang, L. Rossi, B. Heijmen, S. Breedveld

*Track: Clinical***Poster Discussion: Pelvic cancers**

Monday, 15 May 2023 10:30 - 11:30

Business Suite 1-2

Inter-observer variation for national Danish contouring atlas on organs at risk in the pelvis PD - 0805

L. Poulsen (Denmark), J. Søndergaard, E. Lorenzen, R. Bahij, L. Bentzen, L. Dysager, M. Grønbech, B.M. Havelund, S. Holst, M. Klüver-Kristensen, A.Ø. Knudsen, C. Kronborg, H. Lindberg, C.V. Madsen, L.S. Mouritsen, C. Nyborg, T.J. Nøttrup, S.E. Petersen, E. Serup-Hansen, B. Weber, K. Wind, C.R. Hansen

Pattern of failure after SBRT for oligometastases: predictive factors for poli-progression PD - 0806

D. Franceschini (Italy), V. Vernier, L. Cozzi, L. Di Cristina, A.M. Marzo, S. Stefanini, C. Franzese, M. Massaro, M. Scorsetti

Single-fraction PSMA-PET- and multiparametric MRI-guided SBRT for prostate cancer local recurrences PD - 0807

F. Ehret (Germany), T. Hofmann, C. Fürweger, M. Kufeld, M. Staehler, A. Muacevic, A. Haidenberger

- Mortality during or shortly after Curative-Intent Radio-(Chemo-)Therapy PD - 0808
S.M. Christ (Switzerland), J. Willmann, P. Heesen, A. Kühnis, M. Ahmadsei, S. Tanadini-Lang, D. Blum, P. Balermipas, M. Guckenberger, C. Hertler, N. Andratschke
- RT in platinum-sensitive oligometastatic ovarian cancer: an alternative to delay systemic treatment PD - 0809
G. Corrao (Italy), R. Lazzari, S. Durante, V. Pierini, I. Repetti, C. Lorubbio, S. Comi, F. Multinu, F. Cattani, A. Maggioni, N. Colombo, B.A. Jereczek-Fossa
- Pilot study on carbon-ion radiotherapy for recurrent/refractory ovarian/salpinx cancer PD - 0810
A. Barcellini (Italy), K. Murata, G. Fontana, A. Ghirelli, A. Vai, S. Molinelli, C. Cassani, S. Secondino, G. Baroni, N. Facchinetti, S. Yamada, N. Okonogi, E. Orlandi
- Image-guided Stereotactic Body Radiotherapy for intermediate and high-risk endometrial carcinoma PD - 0811
M.I. Antunes (Portugal), S. Vieira, A. Soares, A. Rocha, E. Freitas, J. Stroom, C. Greco
- Radiation dose to bone marrow subregions and acute hematologic toxicity in endometrial cancer PD - 0812
R. Autorino (Italy), A. Nardangeli, R. Rinaldi, S. Di Franco, M. Campitelli, V. De Luca, V. Lancellotta, G. Macchia, D. Cusumano, G. Ferrandina, M.A. Gambacorta
- Salvage stereotactic body radiotherapy in oligometastatic gynaecological cancer PD - 0813
M. Midulla (Italy), A. Fodor, F. Zerbetto, C.L. Deantoni, R. Tummineri, L. Giannini, S. Broggi, M. Torrisi, F. Ferrario, C. Chissotti, S.L. Villa, P. Mangili, C. Fiorino, S. Arcangeli, N.G. Di Muzio
- Toxicity outcomes of dose-escalated MR-guided radiation therapy for abdominal and pelvic tumors PD - 0814
R. Herrera (USA), T. Kutuk, M. Chuong, K. Mittauer, M. Tom, J. Contreras, A. Kaiser, M. Hall, J. McCulloch, D. Alvarez, M. Mehta, A. Gutierrez, R. Kotecha
- Inflammatory markers to predict neoadjuvant chemoradiotherapy response in rectal cancer patients PD - 0815
H. Alkış (Turkey), G. Özden, Z. Başkan, M. Bağcı Kılıç, H.K. Gündüz, A. Kornienko, B.Z. Devran, M. Adli

Track: Radiobiology

Poster Discussion: Radiobiology

Monday, 15 May 2023 10:30 - 11:30

Business Suite 3-4

- Spatial distribution of CD8-positive T cells predicts radiation response in oropharyngeal cancer PD - 0816
J. Kaufmann (Germany), M. Haist, I. Kur, S. Zimmer, S. Grabbe, H. Schmidberger, A. Weigert, A. Mayer
- FLASH radiotherapy and PARP inhibition on preclinical models of glioblastoma and neurotoxicity PD - 0817
J. Ruan (United Kingdom), I. Tullis, M. Maguire, B. Dickie, D. Forster, K. Williams, A. Chalmers, K. Petersson
- TRIB1 confers resistance to radiation treatment in GBM by inhibiting p53 function PD - 0818
K. Singh (USA), C. Han, J. Fleming, A. Kumar, C. Showalter, Z. Tong, V. Becker, X. Meng, A. Becker, H. Manning, S.J. Haque, A. Chakravarti

Radiosurgery inhibits tumor softening in glioma mouse model: first findings from in vivo elastography	PD - 0819
<u>G. Acker (Germany)</u> , A. Janas, G. Bertalan, A. Kluge, I. Sack, D. Zips, P. Vajkoczy, C. Senger	
Fractionated radiotherapy to temporally modulate the tumour microenvironment for immunotherapy	PD - 0820
<u>M. Ebert (Australia)</u> , S. Keam, R. D'Alonzo, S. Gill, A. Nowak, A. Cook	
Serum and saliva cytokines in mice after fractionated radiotherapy of the head and neck region	PD - 0821
<u>O. Zlygosteva (Norway)</u> , I. Solgård Juvkam, H.C. Aass, H. Galtung, T. Sølund, E. Malinen, N. Frederike Jeppesen Edin	
First evidence of a FLASH sparing effect in human healthy lung samples	PD - 0822
<u>M. Dubail (France)</u> , C. Lafouasse, S. Lagha, S. Heinrich, V. Favaudon, A. Londoño-Vallejo, M. Lefèvre, N. Girard, M. Dutreix, A. Seguin-Givelet, C. Fouillade	
Screening of biomarkers in acute radiation enteritis based on microbiome and clustering methods	PD - 0823
<u>C. Ma (China)</u> , X. Xu, S. Qin, J. Zhou	
Development of a hypoxia gene signature in locally advanced cervical cancer patients (NCT05029258)	PD - 0824
<u>A. Datta (United Kingdom)</u> , M. Reardon, S. Desai, P. Hyder, L. Barraclough, K. Haslett, J. O'Connor, C. West, A. Choudhury, P. Hoskin	
Linking Linear Energy Transfer to the surviving fraction of FaDu cells at HollandPTC	PD - 0825
<u>C. Groenendijk (The Netherlands)</u> , T. Heemskerk, M. Rovituso, W. Van Burik, L. Tran, A. Rosenfeld, D. Lathouwers, J. Brown	
Radiosensitization by DNA Damage response inhibitors correlates with Replication stress & HR scores	PD - 0826
<u>W. WAISSI (United Kingdom)</u> , S. Rebus, R. Carruthers, M. Jackson, L. McGarry, S. Dreyer, D. Chang, A. Chalmers	
Radiotherapy upregulates the expression of selected immune genes in early-stage breast cancer	PD - 0827
<u>C. Gomà (Spain)</u> , F. Brasó-Maristany, G. Oses, B. González-Farré, E. Sanfeliu, S. Ganau, B. Úbeda, X. Bargalló, A. Prat, M. Mollà	

Track: Interdisciplinary

Proffered Papers: Highlights of Proffered Papers - Latest clinical trials

Monday, 15 May 2023 11:40 - 12:40

Plenary Hall

Chair: Matthias Guckenberger

-

Chair: Anna Kirby

-

11:40 Benefit of AI-assisted organ-at-risk contouring in head-and-neck cancer: A global randomized study

OC - 0828

M.E. Rasmussen (Denmark), K. Akbarov, E. Titowich, K. Wakeham, J.A. Nijkamp, W. Van Elmpt, A.K.U. Ahmed Mohamed, B.P. Brohet Kartika Erida, C.N. Darejan Lomidze, G.P. Gustavo Ferraris, H.M. Igor Stojkovski, I.I. Issa Mohamad, L.S. Lotfi Kochbati, L.E. Maksim Piatkevich, M.M.B.J. Orges Spahiu, R.A. Raushan Zakirova, S.S.S.K. Uranchimeg Tsegmed, S.S. Korreman, J.G. Eriksen

11:50	A randomized trial of reduced elective neck dose in head & neck cancer: acute toxicity (NCT02442375) <i>M. Cox (The Netherlands), S. van den Bosch, P. Doornaert, F. Hoebbers, B. Kreike, M. Vergeer, E. Zwijnenburg, T. Dijkema, J. Kaanders</i>	OC - 0829
12:00	Accelerated partial breast irradiation: 10-year results of a randomized GEC-ESTRO phase III trial <i>V. Strnad (Germany), C. Polgár, O. Ott, G. Hildebrandt, D. Kauer-Dorner, H. Knauerhase, T. Major, J. Lyczek, J.L. Guinot, C. Gutierrez Miguelez, P. Slampa, P. Niehoff, M. Allgäuer, K. Lössl, B. Polat, R. Fietkau, A. Schlamann, A. Resch, A. Kulik, L. Arribas, F. Guidea, C. Gall, W. Uter</i>	OC - 0830
12:10	Standard vs dose reduced chemoradiotherapy in anal cancer: short-term results of the PLATO-ACT4 RCT <i>A. Gilbert (United Kingdom), J. Webster, S. Brown, J. Copeland, S. Ruddock, D. Gilbert, M. Hawkins, R. Muirhead, A. Renehan, R. Adams, M. Harrison, D. Sebag-Montefiore</i>	OC - 0831
12:20	Organ Preservation in Early rectal Adenocarcinoma : 4-year results of the OPERA trial <i>J. GERARD (France), N. BARBET, T. PACE-LOSCOS, A. SUN MYINT</i>	OC - 0832
12:30	Randomised phase II trial of adaptive image guided bladder radiotherapy: Disease control data <i>R. Huddart (United Kingdom), A. Birtle, K.C. Cheung, A. Choudhury, F. Foroudi, H. Gribble, C. Griffin, S. Hafeez, E. Hall, A. Henry, B. Hindson, R. Lewis, D. McLaren, H. McNair, A. Nikapota, A. Omar, O. Parikh, L. Philipps, I. Syndikus, M. Varughese, C. Vassallo-Bonner, A. Webster</i>	OC - 0833

*Track: Young***Symposium & Networking: Optimal health for all together - Looking ahead, what do staff and patients need to achieve this?**

Monday, 15 May 2023 13:00 - 14:00		Strauss 2
	Chair: Steven Petit	-
	Chair: Sarah Kelly	-
13:00	There's only one of you, but you are never alone: mentorship and professional development <i>P. Poortmans (Belgium)</i>	SP - 0834
13:20	From both sides now <i>R. Harris (United Kingdom)</i>	SP - 0835
13:40	yESTRO update: what happened since last ESTRO <i>S. Petit (The Netherlands)</i>	SP - 0836

*Track: Interdisciplinary***Award Lecture: Interdisciplinary Award**

Monday, 15 May 2023 14:15 - 14:40		Plenary Hall
14:15	Introduction <i>K. Haustermans (Belgium)</i>	SP - 0837
14:20	The flame of interdisciplinary research <i>U. van der Heide (The Netherlands)</i>	SP - 0838

*Track: Interdisciplinary***Award Lecture: Donal Hollywood Award**

Monday, 15 May 2023 14:40 - 14:55

Plenary Hall

Chair: Pierre Blanchard

- 14:40 Adaptive and dose redistributed radiotherapy in head and neck cancer: ARTFORCE RCT phase III results SP - 0839
- A. de Leeuw (The Netherlands), J. Giralt, Y. Tao, S. Benavente, T.F. Nguyen, F. Hoebbers, A. Hoebe, C. Terhaard, L.W. Lee, S. Friesland, R. Steenbakkers, M.T. Kayembe, S. van Kranen, H. Bartelink, C. Rasch, J. Sonke, O. Hamming-Vrieze

*Track: Interdisciplinary***Symposium: Re-irradiation - A curative treatment option: Indications and results**

Monday, 15 May 2023 15:00 - 16:15

Schubert

Chair: Vratislav Strnad

Co-Chair: Michael Mayinger

- 15:00 Constraints for re-irradiation - Does any valid data exist? SP - 0840
G. Noel (France), J. Bou-Gharios, C. Le Fevre, L. Kuntz, P. Meyer
- 15:18 Advanced technical approaches for re-irradiation SP - 0841
E.M. Vasquez Osorio (United Kingdom)
- 15:36 EBRT for re-irradiation: Concepts and results SP - 0842
R. Rulach (United Kingdom)
- 15:54 Brachytherapy for re-irradiation: Concepts and results SP - 0843
P. Wojcieszek (Poland)

*Track: Young***Symposium: The possibility to improve patient care is endless. (Some) initiatives to integrate into radiotherapy departments of the future**

Monday, 15 May 2023 15:00 - 16:15

Strauss 2

Chair: Angela Botticella

Chair: Pierre Montay-Gruel

- 15:00 Radiobiology is an essential consideration in complete patient care SP - 0844
A. Chalmers (United Kingdom)
- 15:18 Does a department need to be active in research or trials in order to offer the best patient care? SP - 0845
M. Guckenberger (Switzerland)
- 15:36 The person in front of us: Complete care for all skin reactions in radiotherapy SP - 0846
N. Julka-Anderson (United Kingdom)
- 15:54 Living on Fault Lines: Psycho-social issues in cancer survivorship SP - 0847
A. Kracen (Ireland)

*Track: Clinical***Joint Symposium: ESTRO-JASTRO: Biology-adjusted radiation therapy**

Monday, 15 May 2023 15:00 - 16:15

Hall A

Chair: TBC

-

Chair: Anna Kirby

-

15:00 Genomic-adjusted radiation dose
J. Scott (USA)

SP - 0848

15:18 Host immunity and tumour microenvironment as a predictor for radiation therapy
T. Tramm (Denmark)

SP - 0849

15:36 Tumour hypoxia as a predictor for radiation therapy
H. Harada (Japan)

SP - 0850

15:54 Genomic risk to tailor radiotherapy
P. Poortmans (Belgium)

SP - 0851

*Track: Clinical***Symposium: Breast cancer radiotherapy: Frequently asked questions from ESTRO's multidisciplinary course**

Monday, 15 May 2023 15:00 - 16:15

Plenary Hall

Chair: Birgitte Offersen

-

Co-Chair: Femke Froklage

-

15:00 Integration of radiation therapy with targeted treatments for breast cancer
I. Meattini (Italy)

SP - 0852

15:18 Breast cancer radiotherapy for patients with connective tissue or genetic disorders
Y. Belkacemi (France)

SP - 0853

15:36 Breast cancer radiotherapy planning for challenging anatomy
S. Hol (The Netherlands), M. Essers

SP - 0854

15:54 When and how to use a nodal boost
W. Woodward (USA)

SP - 0855

*Track: Physics***Symposium: Biologically-guided radiotherapy - Where are we now more than 20 years since the introduction of biological target volumes?**

Monday, 15 May 2023 15:00 - 16:15

Lehar 1-3

Chair: Iuliana Toma-Dasu

-

Co-Chair: TBC

-

15:00 Biologically-guided target definition
L. Dubois (The Netherlands)

SP - 0856

15:25 Biologically-guided dose prescription
I. Toma-Dasu (Sweden)

SP - 0857

15:50 Biologically-guided treatment - How to plan, deliver and adapt
M. Lazzeroni (Sweden)

SP - 0858

*Track: Physics***Symposium: What can EBRT learn from brachytherapy and vice versa?**

Monday, 15 May 2023 15:00 - 16:15

Strauss 1

Chair: Kari Tanderup

-

Co-Chair: Shirin Abbasinejad Enger

-

15:00 High dose to a small volume - Is brachytherapy the best SBRT?

SP - 0859

F. Siebert (Germany)

15:18 Homogeneous dose as is for the whole body: A universal tool

SP - 0860

D. Thorwarth (Germany)

15:36 Image-guidance, intensity-modulation and AI in brachytherapy

SP - 0861

C. Kirisits (Austria)

15:54 Image-guidance, intensity-modulation and AI in EBRT

SP - 0862

G. Meijer (The Netherlands)*Track: RTT***Debate: This house believes that there is no role for the plan libraries approach in the era of real-time adaptive radiotherapy**

Monday, 15 May 2023 15:00 - 16:15

Strauss 3

Chair: Ludwig Van den Berghe

-

Chair: Monica Buijs

-

15:00 Introduction & voting

SP - 0863

15:03 For the motion

SP - 0864

L. Kildegård Johansen (Denmark)

15:23 Against the motion

SP - 0865

A. Le (Australia)

15:43 For the motion - rebuttal

SP - 0866

L. Kildegård Johansen (Denmark)

15:53 Against the motion rebuttal

SP - 0867

A. Le (Australia)

16:03 Discussion & voting

SP - 0868

*Track: Clinical***Mini-Oral: Biomarkers**

Monday, 15 May 2023 15:00 - 16:00

Stolz 1

The impact of the ADC for the early prediction of treatment response after definitive radiotherapy

MO - 0869

C. Onal (Turkey), G. Erbay, O.C. Guler, E. Oymak

HPV subtypes and integration not prognostic in p16+ oropharyngeal squamous cell carcinoma

MO - 0870

J. Lilja-Fischer (Denmark), M.H. Kristensen, T. Steiniche, T. Tramm, J.G. Eriksen, J. Overgaard, M. Stougaard

HPV DNA in plasma and oral gargle from patients with HPV oropharyngeal cancer treated with radiation MO - 0871

M. Echevarria (USA), J. Caudell, Y. Kim, G. Yang, S. Kumar, C. Kuperwasser, C. Del Vecchio Fitz, A. Giuliano, C. Chung

Circulating tumor cells and efficacy of prostate bed salvage radiotherapy combined with abiraterone MO - 0872

S. Supiot (France), L. Ah-Thiane, L. Campion, N. Allouache, E. Meyer, P. Pommier, C. Carrie, N. Mesgouez-Nebout, G. Créhange, V. Guimas, E. Rio, P. Sargos, C. MAHIER AIT OUKHATAR

Rapid increase in ctDNA at commencement of curative-intent radiotherapy for NSCLC MO - 0873

M. MacManus (Australia), B. Blyth, O. Martin, N. Plumridge, M. Shaw, F. Hegi-Johnson, S. Siva, O. Banks, L. Kirby, D. Ball, S. Wong

Nutritional and inflammatory status as biomarkers in oligorecurrent PCa (RADIO-SA TRIAL): an update MO - 0874

M. Zaffaroni (Italy), G. Marvaso, G. Corrao, M.G. Vincini, F. Cattani, F.A. Mistretta, S. Luzzago, G. Musi, S. Alessi, C. Fodor, G. Petralia, G. Pravettoni, O. De Cobelli, R. Orecchia, B.A. Jereczek-Fossa

Sarcopenia - a prognostic biomarker for definitive chemoradiotherapy in oesophageal cancer patients MO - 0875

D. McSweeney (United Kingdom), S. Raby, J. Weaver, G. Radhakrishna, A. Green, P.A. Bromiley, M. van Herk, A. McWilliam

BIOGUIDE-X: A First-in-Human Study of the Performance and Safety of Biology-Guided Radiotherapy MO - 0876

L. Vitzthum (USA), M. Surucu, M. Gensheimer, N. Kovalchuk, B. Han, D. Pham, D. Chang, S. Shirvani, D. Aksoy, A. Maniyedath, M. Narayanan, A. Da Silva, S. Mazin, K. Al Feghali, P. Iyengar, T. Dan, A. Pompos, R. Timmerman, O. Öz, B. Cai, A. Garant

Track: Physics

Mini-Oral: Adaptive radiotherapy

Monday, 15 May 2023 15:00 - 16:00

Stolz 2

Evaluating biologically effective dose in daily adaptive proton therapy for head-and-neck cancers MO - 0877

M. Bobić (USA), H. Lee, B. Winey, A. Lomax, H. Paganetti

Dosimetric comparison of contouring techniques for adaptive radiotherapy MO - 0878

A. Smolders (Switzerland), T. Lomax, D.C. Weber, F. Albertini

real-time absorbed 4D-dose calculation for carbon ion therapy MO - 0879

C. Galeone (Germany), T. Steinsberger, M. Donetti, F.M. Milian, A. Paz, A. Vignati, L. Volz, M. Durante, S. Giordanengo, C. Graeff

Early experiences with CBCT-based online adaptive radiotherapy in cervical carcinoma MO - 0880

G. Razinkas, S. Wegener, R. Schindhelm, F. Exner, S. Weick, M. Zimmermann, B. Polat, M. Flentje, J. Tamihardja (Germany)

Evaluation of plan-of-the-day selection in adaptive radiation therapy of cervical cancer MO - 0881

D. Chan Sock Line (France), C. Lafond, J. Leseur, A. Barateau, D. Lebre, K. Peignaux, N. Mesgouez-Nebout, M. Le Blanc-Onfroy, C. Hanzen, N. Allouache, S. Renard-Oldrini, F. Le Tinier, R. De Crevoisier, A. Simon

Benefits of bespoke PTV margins for bladder cancer using CBCT-guided online adaptive radiotherapy MO - 0882

M. Bolt (United Kingdom), C. Shelley, R. Hollingdale, C. Goh, E. Adams

Clinical evaluation of PTV margin reduction to 3 mm for MR-guided SBRT of the prostate MO - 0883

M. Kusters (The Netherlands), R. Monshouwer, M. Wendling, L. Kerkmeijer, E. van der Bijl

knowledge-based adaptive QA using dosimetric indicators for stereotactic adaptive RT for pancreas MO - 0884

A. Price (USA), F. Forghani-Arani, B. Maraghechi, L. Marut, J. Ginn, P. Samson, C. Robinson, E. Laugeman, H. Kim, L. Henke

Track: Clinical

Poster Discussion: GI

Monday, 15 May 2023 15:00 - 16:00

Business Suite 1-2

Patient-reported outcomes after rectal cancer treatment on a 1.5T MR-Linac within the MOMENTUM study PD - 0885

L. Daamen (The Netherlands), J. Westerhoff, A. Couwenberg, P. Braam, H. Rütten, J. Christodouleas, W. Hall, H. Verkooijen, M. Intven

Theragnostic Utilities for Neoplastic DisEases of the Rectum by MRgRT- THUNDER2: an interim analysis PD - 0886

G. Chiloiri (Italy), A. Romano, L. Boldrini, D. Cusumano, L. Placidi, G. Panza, E. Meldolesi, M. Nardini, V. Valentini, M.A. Gambacorta

Quality assurance of delineation for locally recurrent rectal cancer: PelvEx II data (NCT04389086) PD - 0887

F. Pigneur (The Netherlands), B. Hupkens, S. Nordkamp, M. Berbee, J. Buijsen, H. Rutten, P. Burger, C. Marijnen, H. Peulen

Hyperfractionated re-irradiation for locally recurrent rectal cancer: A Nordic phase II trial PD - 0888

C. Truelsen (Denmark), M. Guren, A. Appelt, C. Kronborg, K. Spindler

Functional lung dose and postoperative lung complications in esophageal cancer trimodality therapy PD - 0889

P. Populaire (Belgium), G. Defraene, P. Nafteux, L. Depypere, K. Haustermans

Efficacy of nimotuzumab plus concurrent chemoradiotherapy for unresectable esophageal cancer PD - 0890

Withdrawn

From one-size-fits-all to customized treatment of gastric cancer: subgroup analyses of the CRITICS PD - 0891

M. Verheij (The Netherlands), A. Slagter, I. Caspers, K. Sikorska, C. van de Velde, E. Meershoek-Klein Kranenbarg, J. van Sandick, E. Jansen, H. van Laarhoven, N. van Grieken, A. Cats

Phase 2 trial of FOLFIRINOX followed by chemoradiation in locally advanced pancreatic cancer PD - 0892

G. D'Ercole (Italy), M. Fiore, G.M. Petrianni, P. Trecca, M. Benincasa, E. Ippolito, D. Caputo, G. Tonini, R. Coppola, S. Ramella

Utility of neoadjuvant CT with/without SBRT to improve outcomes of non-metastatic pancreatic cancer PD - 0893

P. Pathare (India), D.R. Engineer, D.R. Krishnatry, D.S. Gudi, D. Bhandare, D. Chaudhari, D.V. Ostwal, D.A. Ramaswamy, D.S. Shrikhande

Consolidation Chemoradiation vs Observation after Chemotherapy in Advanced Gall bladder cancer PD - 0894

A. gupta, S. agrawal (India), R. rahul, A. singh, P. mishra, R. saxena

Response and survival function correlation with CyberKnife in 209 HCC pt with portal vein thrombus PD - 0895

D. Dutta (India), Y. Sreenija, S. Reddy, H. Nair, N. SK, A. Sasidharan, R. Kannan, S. George, A. EH, N.K. Haridas, W. Jose, P. Keechilat, A. Valsan, A. Koshy, R. Balakrishnan, S. Sadasivan, U. Gopalakrishnan, D. Balakrishnan, S. OV, S. Surendran

Definitive SBRT in early-stage HCC: an Australian multi-institutional review of outcomes PD - 0896

H. Liu (Australia), Y.Y. Lee, S. Sridharan, W. Wang, R. Khor, J. Chu, A. Oar, E.S. Choong, H. Le, M. Shanker, A. Wigg, K. Stuart, D. Pryor

Track: Physics

Poster Discussion: New technologies for treatment planning and dose verification

Monday, 15 May 2023 15:00 - 16:00

Business Suite 3-4

In vitro dosimetry for biological effectiveness assessment of targeted-alpha-therapy PD - 0897

A. Doudard (France), A. Corroyer-Dulmont, C. Jaudet, M. Bernaudin, S. Valable, X. Ledoux, A. Frelin-Labalme

First dosimetric characterization of an a-Si:H dosimeter on flexible support PD - 0898

C. Talamonti (Italy), M. Large, S. Pallotta, N. Wyrsh, C. Grmani, G.A.P. Cirrone, G. Mazza, V. Liberali, G. Quarta, A.P. Caricato, A.G. Monteduro, M. Pedio, M. Menichelli, L. Servoli, M. Petasecca

Error identification in time-resolved treatment verification with multiple instance learning PD - 0899

C. Wolfs (The Netherlands), R. Hendrix, E. de Jong, F. Verhaegen

Treating patients with a cardiac implant on a 1.5T MR-linac: a multi-centre experience PD - 0900

R. Keesman (The Netherlands), E. van der Bijl, L. Kerkmeijer, N. Tyagi, O. Akdag, J. Wolthaus, S. van de Pol, J. Noteboom, M. Intven, M. Fast, A. van Lier

Methodology to monitor changes in ECG in patients with lung cancer after radiotherapy PD - 0901

C. Cunliffe (United Kingdom), A. McWilliam, H. Zhang, K. Banfill, C. Faivre-Finn

ACR Accreditation Evaluation of a Novel High Speed Ring-Gantry Linac kV CBCT System PD - 0902

A. Haertter (USA), M. Salerno, B. Koger, C. Kennedy, B.K. Teo, M. Alonso-Basanta, L. Dong, T. Li

Human validation of a Deep Learning MRI-based Synthetic CT for RT Planning PD - 0903

L. Crespi (Italy), S. Camnasio, D. Dei, N. Lambri, P. Mancosu, M. Scorsetti, D. Loiacono

Silicon devices for monitoring electron FLASH beams PD - 0904

A. Vignati (Italy), E. Medina, M. Abujami, E. Data, D. Del Sarto, F. Di Martino, S. Giordanengo, O.A. Marti Villarreal, F. Mas Milián, L. Masturzo, D. Montalvan Olivares, M. Montefiori, V. Monti, J.H. Pensavalle, M. Centis Vignali, O. Hammad Ali, G. Milluzzo, F. Romano, R. Cirio, R. Sacchi

Electron Ultra-High Dose-Rate (FLASH) beam monitoring and control through beam current transformers PD - 0905

E. Schueler (USA), K. Liu, A. Palmiero, N. Chopra, Z. Li, S. Beddar

Preventing potential treatment collisions on a TrueBeam system using a 3D video game engine PD - 0906

T. Henry (Sweden)

First evaluation of Bolus-Electron-Conformal-Therapy and intensity modulation for FLASH radiotherapy PD - 0907

E. Konradsson (Sweden), R. Ericsson Szecsenyi, G. Adrian, M. Coskun, B. Børresen, M. Arendt, K. Erhart, K. Petersson, C. Ceberg

Suitability of biology-guided radiotherapy for metastatic renal cell carcinoma directed by PSMA PET PD - 0908

M. Gaudreault (Australia), D. Chang, N. Hardcastle, L. McIntosh, P. Jackson, T. Kron, C. Udovicich, M. Hofman, S. Siva

Track: Interdisciplinary

Proffered Papers: Challenges in global radiation oncology

Monday, 15 May 2023 16:30 - 17:30

Schubert

16:30 COVID RT – a national study of radiotherapy decisions and their impact on patient outcomes. OC - 0909

M. Evans (United Kingdom), J. Shelton, R. Hinchliffe, L. Wills, K. Spencer, P. Lewis, S. Johnson, R. Huddart, C. Chan, A. Burnett, E. Morris, D. Sebag-Montefiore

16:40 Immunogenicity after two/three doses of mRNA vaccine in cancer patients treated with radiotherapy OC - 0910

S. Scoccianti (Italy), C. Delli Paoli, M. Infantino, L. Paoletti, S. Caini, F. Meacci, S. Russo, M. Esposito, S. Fondelli, B. Grilli Leonulli, V. Grossi, R. Barca, P. Alpi, F. Furlan, M. Perna, M.S. Pino, F. Martella, M. Manfredi, M. Stefanacci, A. Bassetti, P. Casprini, L. Fioretto

16:50 Radiotherapy in Ukraine during the war SP - 0911

R. Zelinskyi (Ukraine)

17:00 Call for action: How to help Ukraine SP - 0912

N. Kovalchuk (Ukraine)

17:10 Carbon footprint of the one week ultra hypofractionated breast radiotherapy workflow OC - 0913

S. Rivera (France), J. Vitre, C. Bellini, M.B. Ba, F. Giudici, G. Louvel, S. Bockel, E. Folino, S. Achkar, E. Limkin, N. Sellami, A. Vatonne, F. Villaret, C. Larue, E. Deutsch, S. Michiels, C. Milewski, G. Auzac, L. Bordenave

17:20 Initial comparison of the carbon footprint of radiotherapy across cancer centres OC - 0914

R. Chuter (United Kingdom), C. Stanford-Edwards, E. Holden, R. Razak, C. Taylor, J. Cummings, G. Lowe

Track: Clinical

Proffered Papers: Reirradiation

Monday, 15 May 2023 16:30 - 17:30

Plenary Hall

16:30 Thoracic re-irradiation: an international patterns of care survey endorsed by ESTRO and EORTC OC - 0915

J. Willmann (Switzerland), A.L. Appelt, P. Balcermpas, B.G. Baumert, D. de Ruysscher, M. Hoyer, C. Hurkmans, O. Kaidar-Person, I. Meattini, M. Niyazi, P. Poortmans, N. Reynaert, Y. van der Linden, C. Nieder, N. Andratschke

16:40 2nd conservative treatment for 2nd breast tumor event: a GEC-ESTRO prognostic factor analysis OC - 0916

	<u>J. Hannoun-Levi (France)</u> , J. Gal, C. Polgar, V. Strnad, K. Loessl, B. Polat, D. Kauer-Domer, R. Schiappa, C. Gutierrez	
16:50	ESTRO/EORTC consensus definition of re-irradiation paving the way for the prospective ReCare cohort <u>N. Andratschke (Switzerland)</u> , J. Willmann, A. Appelt, N. Alyamani, P. Balermipas, B. Baumert, C. Hurkmans, M. Hoyer, J. Langendijk, O. Kaidar-Person, Y. van der Linden, I. Meattini, M. Niyazi, N. Reynaert, D. de Ruysscher, S. Tanadini-Lang, P. Hoskin, P. Poortmans, C. Nieder	OC - 0917
17:00	Re-irradiation in clinical practice: international patterns of care survey endorsed by ESTRO/EORTC <u>J. Willmann (Switzerland)</u> , A.L. Appelt, P. Balermipas, B.G. Baumert, D. de Ruysscher, M. Hoyer, C. Hurkmans, O. Kaidar-Person, I. Meattini, M. Niyazi, P. Poortmans, N. Reynaert, Y. van der Linden, C. Nieder, N. Andratschke	OC - 0918
17:10	Stereotactic reirradiation: toxicity profile results from a phase I dose escalation study (Destroy-1) <u>D. Pezzulla (Italy)</u> , G. Macchia, S. Cilla, M. Ferra, M. Buwenge, C. Romano, S. Cammelli, P. Bonome, V. Picardi, M. Boccardi, M. Ferro, M.A. Gambacorta, A.G. Morganti, F. Deodato	OC - 0919
17:20	Reirradiation for Diffuse Intrinsic Pontine Gliomas in Children: Clinical and Radiomic Analysis <u>D. Wawrzuta (Poland)</u> , M. Chojnacka, K. Pędziwiatr	OC - 0920

Track: Clinical

Proffered Papers: Prostate SBRT

Monday, 15 May 2023 16:30 - 17:30

Hall A

16:30	Stereotactic prostate radiotherapy with focal boost: primary endpoint analysis in DELINEATE trial <u>J. Murray (United Kingdom)</u> , L. Satchwell, E. Greenlay, A. Gao, H. McNair, I. Blasiak-Wal, J. Talbot, A. Sohaib, C. Parker, A. Pathmanathan, N.M. deSouza, D. Dearnaley, A. Tree	OC - 0921
16:40	Once or twice a week, What's best?: Joint acute toxicity analysis of the phase II hypo-FLAME trials <u>L. De Cock, C. Draulans (Belgium)</u> , F.J. Pos, S. Isebaert, R. De Roover, U.A. van der Heide, R.J. Smeenk, M. Kunze-Busch, J. van der Voort van Zyp, H. de Boer, L.G. Kerkmeijer, K. Haustermans	OC - 0922
16:50	Every-other-day vs once-a-week urethra-sparing prostate SBRT: 5-year results of a randomized trial <u>T. Zilli (Switzerland)</u> , S. Jorcano, S. Bral, Z. Symon, C. Rubio, A. Bruynzeel, R. Ibrahimov, H. Minn, A. Oliveira, A. Bertaut, G. Constantin, R. Miralbell	OC - 0923
17:00	Prostate RT In high risk or N+ Moderate vs Extreme hypofractionation (PRIME): An Interim analysis <u>V. Murthy (India)</u> , P. Maitre, M. Arunsingh, R. Phurailatpam, R. Mhatre, B. Arun, G. Panigrahi, P. Singh, S. Menon, G. Prakash, M. Pal, A. Arora, A. Katdare, A. Agrawal, V. Rangarajan, S. Kannan, I. Mallick	OC - 0924
17:10	2-fraction prostate SABR+/-dominant intraprostatic lesions boost: results from two Phase II trials <u>W.L. Ong (Canada)</u> , P. Cheung, H. Chung, W. Chu, J. Detsky, S. Liu, G. Morton, E. Szumacher, C. Tseng, D. Vesprini, M. Davidson, A. Ravi, M. McGuffin, L. Zhang, A. Mamedov, A. Deabreu, M. Poon, A. Loblaw	OC - 0925

- 17:20 Prostate Virtual HDR Brachytherapy Boost: 5-year Prospective Multicentre Clinical Trial Results OC - 0926
J. Martin (Australia), M. Sidhom, D. Pryor, J. Bucci, E. Wegener, K. Yeoh, M. Richardson, P. Greer, S. Gallagher, L. Wilton, L. Schmidt, S. Keats, S. Arumugam, S. Brown, A. Glyde

Track: Physics

Proffered Papers: Flash and proton measurement

Monday, 15 May 2023 16:30 - 17:30

Strauss 1

- 16:30 Proton dosimetry with a plane-parallel chamber: determination of magnetic field correction factors OC - 0927
B. Gebauer (Germany), K. Baumann, K. Baumann, D. Georg, H. Fuchs, B. Oborn, A. Hoffmann, A. Hoffmann, A. Lühr
- 16:40 Comparison of cylindrical and plane-parallel ionization chambers in continuous and pulsed proton PBS OC - 0928
G. Vilches-Freixas (The Netherlands), A. Lourenço, A. Douralis, J. Martens, A. Meijers, H. Palmans, I. Rinaldi, K. Salvo, R. Thomas, G. Bosmans
- 16:50 Scintillation imaging for time-resolved 2D monitoring of ultra-high dose rate proton beam scanning OC - 0929
E. Kanouta (Denmark), P. Bruza, M. Clark, J. Sunnerberg, J. Harms, J. Johansen, P. Poulsen
- 17:00 Silicon carbide detectors for dosimetry and monitoring of UHDR beams for FLASH radiotherapy OC - 0930
G. Milluzzo (Italy), S. Capaccioli, S. Capaccioli, D. Del Sarto, F. Di Martino, M.C. D'Oca, G. Felici, M. Marrale, L. Masturzo, E. Medina, M. Montefiori, F. Paia, J.H. Pensavalle, E. Sangregorio, A. Vignati, M. Camarda, F. Romano
- 17:10 Monte Carlo modelling of a Small-body Portable Graphite Calorimeter for ultra-high dose rate beams OC - 0931
J. Cotterill (United Kingdom), R. Thomas, A. Subiel, N. Lee, D. Shipley, H. Palmans, A. Lourenco
- 17:20 Plastic scintillator-based dosimeters for FLASH radiotherapy OC - 0932
E. Ciarrocchi (Italy), M. Morrocchi, D. Del Sarto, F. Di Martino, S. Linsalata, J.H. Pensavalle, M.G. Bisogni

Track: Physics

Proffered Papers: Motion management

Monday, 15 May 2023 16:30 - 17:30

Lehar 1-3

- 16:30 Automatically Triggered Surface-Based RT in DIBH in Breast Cancer - SAVE HEART dosimetry report OC - 0933
S. Schönecker (Germany), L. Angelini, A. Gaasch, M. Pazos, M. Braun, N. Harbeck, M. Niyazi, C. Belka, S. Corradini
- 16:40 A novel low-cost open-source SGRT system for H&N radiotherapy OC - 0934
Y. Ben Bouchta (Australia), M. Gardner, P. Keall
- 16:50 Patient selection for DIBH radiotherapy of locally advanced non-small cell lung cancer OC - 0935
K. Fiellanger (Norway), L. Rossi, B.J.M. Heijmen, H.E.S. Pettersen, I.M. Sandvik, S. Breedveld, T. Husevåg Sulen, L.B. Hysing
- 17:00 Heartbeat simulation to evaluate intra-fraction dosimetric variations for 3 radiotherapy techniques OC - 0936

N. Maffei (Italy), B. Meduri, F. Itta, N. Ashraf, M.V. Gutierrez, A. Bernabei, E. Zanella, F. Di Pressa, E. D'Angelo, E. Mazzeo, F. Lohr, G. Guidi

17:10 Small planning margins by intrafraction re-planning on a MR-linac in 65 prostate ca. patients OC - 0937

H. de Boer (The Netherlands), G. Bol, E. de Groot-van Breugel, T. Willigenburg, B. Raaymakers, J. Lagendijk, J. van der Voort van Zijp

17:20 ScatterNet for 4D cone-beam CT intensity correction of lung cancer patients OC - 0938

H. Schmitz (Germany), E. Lombardo, M. Kawula, K. Parodi, C. Belka, F. Kamp, C. Kurz, G. Landry

Track: RTT

Proffered Papers: Multidisciplinary advancement in stereotactic arrhythmia radiotherapy

Monday, 15 May 2023 16:30 - 17:30

Strauss 3

16:30 Cardiac SABR: image matching techniques for accurate treatment delivery OC - 0939

R. Brooks-Pearson (United Kingdom), K. Pilling, B. Ormston, L. MacKenzie, C. Huntley, A. Kerr, R. Crouch, N. Richmond, M. Van Der Putten, P. Atherton

16:40 Assessment of cardiorespiratory motion for cardiac radioablation using a digital 17-segment model OC - 0940

R. Stevens (The Netherlands), C. Hazelaar, M. Bogowicz, R.M. ter Bekke, P.G. Volders, K. Verhoeven, D. de Ruysscher, J.J. Verhoeff, M.F. Fast, S. Mandija, J. Cvek, L. Knybel, P. Dvorak, O. Blanck, W. van Elmpt

16:50 STereotactic Arrhythmia Radioablation in Europe: STOPSTORM Consortium Treatment Planning Benchmark OC - 0941

V. Trojani (Italy), A. Botti, M. Grehn, B. Balgobind, A. Savini, E. Pruvot, J. Verhoeff, M. Iori, O. Blanck

17:00 Geometric stability during Stereotactic Arrhythmia Radiotherapy OC - 0942

R. de Jong (The Netherlands), N. van Wieringen, M. van Ree, E. Dieleman, P.G. Postema, J. Visser, B. Balgobind

17:10 Linac-based STereotactic Arrhythmia Radioablation for atrial fibrillation: dosimetric evaluation OC - 0943

A. Fiorentino (Italy), F. Gregucci, A. Di Monaco, A. Surgo, R. Carbonara, M.P. Ciliberti, M. Caliendo, M. Grimaldi, F.C. Di Guglielmo, E. Paulicelli, I. Bonaparte

17:20 Dosimetric impact of auto-mapping heart contour and motion uncertainty in lung cancer radiotherapy OC - 0944

V. Chin (Australia), R. Finnegan, P. Chlap, L. Holloway, D. Thwaites, J. Otton, G. Delaney, S. Vinod

Track: Clinical

Mini-Oral: Sarcoma - Haematology

Monday, 15 May 2023 16:00 - 17:00

Stolz 1

Radical carbon-ion rt for unresectable thoracoabdominal soft tissue sarcomas: efficacy and safety MO - 0945

S.P. Bianchi (Italy), V. Vitolo, A. Barcellini, M.R. Fiore, A. Chalaszczyk, A. Ghirelli, S. Russo, G. Fontana, C. Sangalli, M. Ciocca, E. Orlandi

Sacral nerve sparing strategy in carbon-ion irradiation of pelvic sarcomas: the MedAustron approach MO - 0946

A. Nachankar (Austria), E. Hug, M. Pelak, S. Tubin, M. Stock, A. Carlino, J. Gora, G. Martino, M. Schafasand, P. Fossati

- Lessons learned from RT toxicity outcomes from UK Vortex and IMRIS trials for limb sarcoma MO - 0947
R. Simoes (United Kingdom), H. Dehbi, S. Gulliford, B. Seddon, M. Robinson, P. Hoskin, S. Forsyth, L. White, P. Gaunt, A. Hughes, E. Miles, K. Harrington, A. Miah
- Intermediate-High dose TBI: a balance between disease control and pulmonary toxicity MO - 0948
G. Sancho-Pardo (Spain), A. Vila, I. Garcia-Cadenas, R. Martino, N. Garcia-Apellaniz, J. Rojas, S. Redondo, S. Bermejo, N. Ventosa, E. Albert, O. Eugenia, S.J. Rabi Mitre, N. Jornet
- Phase 1 study of escalated total marrow irradiation and melphalan at 1st relapse in multiple myeloma MO - 0949
A. Cailleteau (France), P. Maingon, S. Choquet, R. Bourdais, D. Antoni, B. Lioure, C. Hulin, S. Batard, C. Llagostera, V. Guimas, C. Touzeau, P. Moreau, M. Mahé, S. Supiot
- Selected soluble biomarkers in mycosis fungoides and Sézary syndrome: Final results of S-MISR trial MO - 0950
K. Elsayad (Germany), K. Bormann, T. Nawar, D. Rolf, E.C. Müller, N.B. Pepper, C. Weishaupt, H. Hillmann, E. Bormann, K. Steinbrink, B. Greve, H.T. Eich
- Outcome of total body irradiation for hematopoietic stem cell transplantation conditioning MO - 0951
T. Eichkorn (Germany), S. Hüske, J.W. Lischalk, G. Major, O. Schramm, J. Hörner-Rieber, K. Lang, T. Luft, P. Dreger, K. Herfarth, C. Müller-Tidow, J. Debus, L. König
- A multicentric retrospective analysis of the potential synergy between radiotherapy and CAR T-cells MO - 0952
J. Fan (Germany), A. Adams, N. Sieg, J. Heger, P. Gödel, N. Kutsch, D. Kaul, M. Teichert, B. von Tresckow, V. Bücklein, G. Goesmann, M. Li, N. Struve, M. Trommer, P. Linde, J. Rosenbrock, E. Celik, O. Penack, M. Stuschke, M. Subklewe, C. Belka, M. von Bergwelt-Baildon, P. Borchmann, S. Marnitz, C. Baues

Track: Physics

Mini-Oral: Novel imaging strategies

Monday, 15 May 2023 16:00 - 17:00

Stolz 2

- A semi-automated approach for quantifying airway stenosis after stereotactic ablative radiotherapy. MO - 0953
O. Bohoudi (The Netherlands), S. Senan, H. Tekatli, B.J. Slotman, A.M. Bruynzeel, F.J. Lagerwaard
- Impact of androgen deprivation therapy on Imaging treatment response following prostate radiotherapy MO - 0954
Y. Wang (Australia), S. Tadimalla, L. Holloway, A. Haworth
- Ventilation and perfusion imaging at a 0.35 T MR-Linac - feasibility and reproducibility study MO - 0955
R. Klaar (Germany), M. Rabe, T. Gaass, M.J. Schneider, I. Benlala, S. Corradini, C. Eze, C. Belka, G. Landry, C. Kurz, J. Dinkel
- Time evolved hypoxia guided proton therapy dose painting in HNSCC patients MO - 0956
S. Makkar (Switzerland), A. Bogaert, B. Bachtiary, C. De Angelis, C.M. Zegers, E. Roelofs, K. McNamara, K. McNamara, J. Hrbacek, D.C. Weber, A. Lomax, C. Winterhalter
- Optimal time for early therapeutic response prediction in NPC with multi-parametric MRI MO - 0957

W.L. Mui (Hong Kong (SAR) China), W.M. Lee, W.T. Ng, H.F. Lee, V. Vardhanabhuti, S.Y. Man, T.T. Chua, X.Y. Guan

corneal surface reconstruction and pupil tracking for eye localization in ocular proton therapy MO - 0958

R. Via (Switzerland), G. Fattori, A. Pica, G. Baroni, A. Lomax, D.C. Weber, J. Hrbacek

A novel multi-task hybrid deep neural network (DNN) predicts tumor progression during MRgRT MO - 0959

J.M. Bryant, P.G. Saghand, K. Latifi, J. Frakes, S. Hoffe, E. Moros, K. Mittauer, R. Kotecha, I. El Naqa, S. Rosenberg (USA)

Evaluating semi-automated 18F-FDG PET segmentation methods to predict Large B-cell lymphoma outcomes MO - 0960

K. Keijzer (The Netherlands), T. van Meerten, J.W. de Boer, A.G.H. Niezink, L.V. van Dijk

Track: Clinical

Poster Discussion: Lung 2

Monday, 15 May 2023 16:30 - 17:30

Business Suite 1-2

Postoperative IMRT Radiotherapy in resected NSCLC patients: a multicentre retrospective analysis PD - 0961

V. Nardone (Italy), A. Bruni, D. Franceschini, S. Vagge, M. Sepulcri, A. Cappelli, E. D'Angelo, G. De Marco, A. Angrisani, M. Manetta, M. Scricciolo, C. Guida, D. Aiello, I. Fazio, P. Borghetti, S. Cappabianca

Second PFS after post-PACIFIC relapse in the Blue Sky observational study on stage 3 NSCLC. PD - 0962

A.R. Filippi (Italy), J. Saddi, F. Agustoni, G. Galli, S. La Mattina, G. Facheris, G. Stella, C. Bortolotto, A. Ferrari, P. Pedrazzoli, L. Preda, P. Borghetti

Lung re-irradiation with SBRT: outcomes and predictive factors of response in the recurrent setting PD - 0963

I. Angelicone (Italy), M. Rotondi, R.C. Sigillo, P. Bonome, D. Caivano, M. Valeriani, M.F. Osti

SBRT of lung and liver oligometastases from breast cancer: a prospective non-randomized phase 2 trial PD - 0964

B. Marini (Italy), L. Di Cristina, V. Vernier, R. Spoto, L. Dominici, F. Lobefalo, L. Paganini, C. Franzese, D. Franceschini, M. Scorsetti

Phase II trial of single-fraction SABR on 0.35T MRI-linac for thoracic, abdominal, and pelvic tumors PD - 0965

M. Chuong (USA), K. Mittauer, M. Tom, N. Kalman, J. McCulloch, D. Alvarez, C. Rojas, P. Kaywin, A. Ucar, F. Albrecht, F. De Zarraga, S. Aparo, G. Rabinowits, M. Rubens, A. Gutierrez, R. Kotecha

Patterns of recurrence, treatment, and outcome of lymph node recurrence after SBRT for lung cancer PD - 0966

T.H. Lee (Korea Republic of), H. Shin, Y.C. Ahn, M.K. Kang, C. Song, W.C. Kim, S.H. Moon, J.H. Kim, J. Cho, H.J. Park, H.K. Lee, B.H. Kim, H.J. Kim

Validation of the Graded Prognostic Assessment for Patients with Lung Cancer and Brain Metastases PD - 0967

S.W. Hong (Korea Republic of), C. Song, W. Jeon, J. Kim

Treatment of COVID-19 pneumonia with low-dose radiotherapy in frail patients PD - 0968

B.A. Malave Chacon (Spain), J.C. Acosta Arteaga, B. Piqué, L. Torres-Royo, E. Rodríguez-Tomás, R. Benavides, G. De Febrer, P. Araguas, J.A. Gomez, M. Arquez, V.D.

Calderon, M. Algara, A. Montero, D. Parada, F. Riu, A. Jiménez, C. Vasco, S. Sabater, J. Camps, J. Joven, M. Arenas Prat

FDG PET/CT follow up imaging of durvalumab maintenance in inoperable stage III NSCLC patients PD - 0969

A. Holzgreve (Germany), M. Unterrainer, J. Taugner, P. Müller, A. Tufman, N. Reinmuth, M. Li, L.M. Unterrainer, P. Bartenstein, W.G. Kunz, J. Rieke, C. Belka, C. Eze, F. Manapov, L. Käsmann

Biodistribution Data of ImmunoPET: A Phase 0/1 Study Characterising PD-L1 with 89Zr-Durvalumab PD - 0970

F. Hegi-Johnson (Australia), S. Rudd, P. Roselt, C. Wichmann, J. Callahan, T. Akhurst, P. Jackson, R. Hicks, A. Scott, P. Donnelly, T. John, G. Hanna, M. MacManus

Radiation dose response of bone marrow during chemoRT for NSCLC measured by serial FLT-PET PD - 0971

E. Prins (Australia), M. MacManus, F. Hegi-Johnson, J. Callahan, J. Xie, R. Hicks, T. Akhurst, S. Everitt

a pet/ct radiomics model for predicting distant metastasis in lung cancer patients treated with SBRT PD - 0972

Z. Zhang (The Netherlands), L. Yu, Z. Wang, A. Dekker, L. Wee, A. Traverso, Z. Yuan

Track: Physics

Poster Discussion: Treatment planning: Photons

Monday, 15 May 2023 16:30 - 17:30

Business Suite 3-4

Clinical Implementation of VMAT for Total Marrow Irradiation using Raystation PD - 0973

T.Y. Lim (USA), S. Wu, P. Fang, B. Dabaja, J. Ohrt, J. Gunther, C. Pinnix, T. Rougeau, A. Sobremonte, C. Wang, T. Netherton, R. Champlin, Y. Reisner, E. Shpall, X. Wang

Initial report of prospective feasibility study for modified track Dynamic WaveArc therapy PD - 0974

Y. Ono (Japan), Y. Iizuka, K. Nakamura, T. Ono, N. Mukumoto, M. Yoshimura, Y. Matsuo, T. Mizowaki

Evaluation and validation of density override in VMAT treatment planning for lung SBRT PD - 0975

C.L. Ong (The Netherlands), E. Franken

A novel anatomical robust optimization strategy for prostate cancer: a RADIOSA trial spin-off study PD - 0976

M.G. Vincini (Italy), F. Pansini, M. Zaffaroni, G. Corrao, F. Cattani, G. Marvaso, B.A. Jereczek-Fossa

Automation of prostate treatment planning with template dose mimicking constraints PD - 0977

R. Vauclin (France), J. Prunaretty, N. Bus, E. Mengin, R. Marini Silva, H. Kallala, N. Paragios, P. Fenoglietto

Electron modulated arc therapy for breast boost: development of a treatment planning process PD - 0978

G. Guyer (Switzerland), S. Mueller, D. Frei, W. Volken, K. Loessl, D.M. Aebersold, P. Manser, M.K. Fix

Evaluation of commercial deep learning MRI reconstruction for synthetic CT generation in prostate RT PD - 0979

C. Jamtheim Gustafsson (Sweden), J. Scherman, A. Gunnlaugsson, L.E. Olsson

Exploring conventionally unexploited degrees of freedom in treatment plan optimization PD - 0980

N. Torelli (Switzerland), J. Unkelbach

Use of RapidPlan knowledge-based planning models for planning of rectum cases with Ethos TPS PD - 0981

D. Withers (United Kingdom), É. Isaacs, R. Fullarton, E. Almond, M. Ulewich

Dosimetric and clinical aspects of lung SABR delivered with Synchrony® tracking on Tomotherapy PD - 0982

M. Cerrato (Italy), E. Gallio, F. Menegatti, I. Bonavero, C. Grossi, C. Casale, P. Brossa, S. Badellino, F.R. Giglioli, R. Parise, M. Levis, U. Ricardi

Mid-ventilation vs ITV for SABR on the MR-Linac for locally advanced pancreatic cancer PD - 0983

J. Gough (United Kingdom), R.A. Mitchell, A. Dunlop, D. McQuaid, S. Nill, S. Alexander, H. McNair, U. Oeflke, B. Ng-Cheng-Hin, A. Hunt, K. Aitken

Are ultra-hypofractionated prostate treatments worse in some patients? - an in-silico study PD - 0984

F. Claassen (The Netherlands), V. Coen, I. Jacobs, T. Harthoorn, I. De Marco, B. Mous-Van der Wegen, F. Van den Heuvel

Track: Young

Networking Session: Quiz & Young Researcher Awards

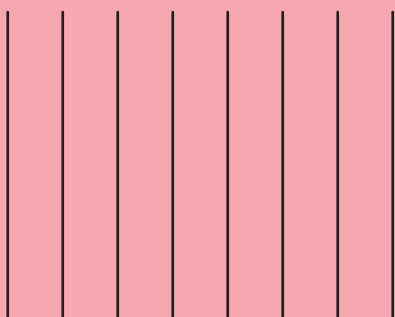
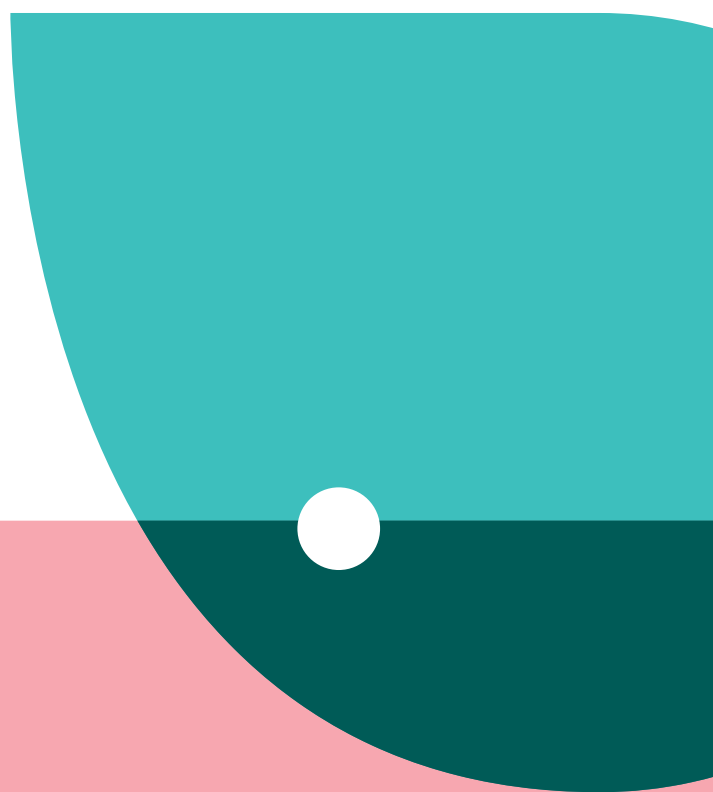
Monday, 15 May 2023 16:30 - 17:30

Strauss 2

Moderators: Ludwig Dubois & Amanda Webster

Young researcher awards to be presented in this session.

Tuesday
16 May 2023



*Track: Interdisciplinary***Teaching Lecture: Statistical methods and analysis for large datasets**

Tuesday, 16 May 2023 08:30 - 09:10

Schubert

Chair: Georgina Fröhlich

-

08:30 Statistical methods and analysis for large datasets
S. Löck (Germany)

SP - 0985

*Track: Interdisciplinary***Teaching Lecture: Paediatric radiotherapy - What is state-of-the-art?**

Tuesday, 16 May 2023 08:30 - 09:10

Strauss 3

Chair: Sophie Espenel

-

08:30 Is proton therapy always the best technique for paediatric radiotherapy?
S. Bolle (France)

SP - 0986

08:50 MR-guided radiotherapy in paediatric patients
G. Janssens (The Netherlands),

SP - 0987

*Track: Clinical***Teaching Lecture: Optimal treatment of bladder cancer in the elderly and frail populations**

Tuesday, 16 May 2023 08:30 - 09:10

Lehar 1-3

Chair: Paul Sargos

-

08:30 Optimal treatment of bladder cancer in the elderly and frail populations
V. Fonteyne (Belgium)

SP - 0988

*Track: Clinical***Teaching Lecture: Secondary malignancies from radiation - Is the prophecy fulfilled?**

Tuesday, 16 May 2023 08:30 - 09:10

Hall A

Chair: TBC

-

08:30 Secondary malignancies from radiation - Is the prophecy fulfilled?
Y. Lawrence (Israel)

SP - 0989

*Track: Physics***Teaching Lecture: Status and recent developments in PET for adaptive radiotherapy**

Tuesday, 16 May 2023 08:30 - 09:10

Strauss 1

Chair: Faisal Mahmood

-

08:30 Status and recent developments in PET for adaptive radiotherapy
E. Malinen (Norway)

SP - 0990

*Track: Physics***Teaching Lecture: MRI-only radiotherapy: Principles, challenges and future prospects**

Tuesday, 16 May 2023 08:30 - 09:10

Strauss 2

Chair: Kathrine Røe Redalen

08:30 MRI-only radiotherapy: Principles, challenges and future prospects
S. Klüter (Germany)

SP - 0991

*Track: RTT***Teaching Lecture: Living with, and beyond, cancer**

Tuesday, 16 May 2023 08:30 - 09:10

Strauss 3

Chair: Maeve Kearney

08:30 Living with, and beyond, cancer
E. Pape (Belgium)

SP - 0992

*Track: Interdisciplinary***Symposium: Guidelines**

Tuesday, 16 May 2023 09:15 - 10:30

Strauss 3

Chair: Barbara Jereczek-Fossa

Chair: Fiona McDonald

09:15 Introduction

SP - 0993

09:25 ESTRO-ACROP guidelines for external beam radiotherapy of patients with complicated and uncomplicated bone metastases
P. Hoskin (United Kingdom), N. Andratschke, J. Menten, J. Kazmierska, Y. van der Linden, M. Spalek, J. van der Velden, J. Willmann, S. Brown, E. Oldenburger

SP - 0994

09:35 An ESTRO-ACROP guideline on quality assurance and medical physics commissioning of online MRI-guided radiotherapy systems based on a consensus expert opinion
S. Tanadini-Lang (Switzerland)

SP - 0995

09:45 Overview of the ESTRO-ACROP guideline for positioning, immobilisation and set-up verification for loco-regional photon breast cancer irradiation
M. Mast (The Netherlands)

SP - 0996

09:55 Consensus statements on integration of radiation therapy with targeted treatments for breast cancer
I. Meattini (Italy)

SP - 0997

10:05 ESTRO-ACROP guideline on prostate bed delineation for postoperative radiotherapy in prostate cancer
A. Dal Pra (USA), P. Dirix, V. Khoo, C. Carrie, C. Cozzarini, V. Fonteyne, P. Ghadjar, A. Gomez-Iturriaga, V. Panebianco, A. Zapatero, A. Bossi, T. Wiegel

SP - 0998

10:15 ASTRO-ESTRO guideline on oligometastatic NSCLC
M. Guckenberger (Switzerland)

SP - 0999

10:25 Discussion

SP - 1000

*Track: Interdisciplinary***Symposium: Back to the future - The automated radiation oncology workflow in 2030**

Tuesday, 16 May 2023 09:15 - 10:30		Schubert
	Chair: Daan Nevens	-
	Co-Chair: TBC	-
09:15	2030: The end of the "one-dose fits all" concept? <u>J. Bibault (France)</u>	SP - 1001
09:33	2030: Towards histology-driven radiation prescription (imaging to pathology translation) <u>R. Sun (France)</u>	SP - 1002
09:51	How to quantify the added value of automated (artificial intelligence) based RT workflows in 2030 <u>W. van Elmpt (The Netherlands)</u> ,	SP - 1003
10:09	What are the risks in a fully automatic workflow? The RTT point of view <u>C. Dickie (Canada)</u>	SP - 1004

*Track: Clinical***Debate: Radiotherapy and oligometastatic prostate cancer - This house believes we are ready for a new treatment paradigm**

Tuesday, 16 May 2023 09:15 - 10:30		Lehar 1-3
	Chair: Alfonso Gomez Iturriaga	-
	Chair: Almudena Zapatero	-
09:15	Introduction & voting	SP - 1005
09:18	For the motion <u>A. Tree (United Kingdom)</u>	SP - 1006
09:33	Against the motion <u>T. Zilli (Switzerland)</u> ,	SP - 1007
09:48	For the motion - rebuttal <u>A.J. Conde.Moreno (Spain)</u>	SP - 1008
10:03	Against the motion - rebuttal <u>P. Blanchard (France)</u>	SP - 1009
10:18	Discussion & voting	SP - 1010

*Track: Clinical***Symposium: How to introduce innovations in risk stratification to clinical management of gynaecological cancers**

Tuesday, 16 May 2023 09:15 - 10:30		Hall A
	Co-Chair: Daniel Portik	-
	Chair: Remi Nout	-
09:15	Risk stratification in endometrial cancer: Evidence, future steps, and how to implement in everyday clinic <u>C. Creutzberg (The Netherlands)</u>	SP - 1011

09:40	Risk stratification for cervical cancer: Circulating HPV DNA - Evidence and road to implementation <u>K. Han (Canada)</u>	SP - 1012
10:05	Risk stratification for cervical cancer: Hypoxia profiles from gene expression to imaging, evidence and road to implementation <u>K. Bruheim (Norway)</u>	SP - 1013

*Track: Physics***Symposium: Reducing the target volumes in external beam therapy**

Tuesday, 16 May 2023 09:15 - 10:30		Strauss 1
	Co-Chair: Kristine Fjellanger	-
	Chair: Stine Korreman	-
09:15	Treatment margins in the era of MR-linacs, tracking and adaptive planning - Will zero millimetre CTV-PTV margin ever be feasible? <u>M. van Herk (United Kingdom)</u>	SP - 1014
09:40	Keeping local control high with smaller target volumes <u>E. Troost (Germany)</u>	SP - 1015
10:05	The PTV concept should be replaced with robust optimisation in EBRT <u>M. Witte (The Netherlands)</u>	SP - 1016

*Track: Physics***Symposium: Proton arc therapy: Status and potential**

Tuesday, 16 May 2023 09:15 - 10:30		Strauss 2
	Chair: Christian Richter	-
	Co-Chair: Dora Correia	-
09:15	Proton arc therapy: Rationale and current status <u>A. Mazal (Spain)</u>	SP - 1017
09:33	Report from 2022 ESTRO Physics Workshop: How to progress from the concept to clinical reality? <u>S. Mein (Germany)</u>	SP - 1018
09:51	Arc therapy or FLASH - Which road to take? <u>T. Lomax (Switzerland)</u>	SP - 1019
10:09	Summary & discussion <u>X. Ding (USA)</u>	SP - 1020

*Track: RTT***Symposium: Advances in communication technologies within radiotherapy**

Tuesday, 16 May 2023 09:15 - 10:30		Strauss 3
	Chair: Ludwig Van den Berghe	-
	Co-Chair: Rita Simoes	-
09:15	Innovations in advocating radiotherapy <u>D. Kok (Australia)</u> , K. Pope	SP - 1021
09:40	Patient feedback using apps <u>P. Cornacchione (Italy)</u>	SP - 1022

10:05 RTT involvement in digital Intelligence for patient reported outcomes
J. Javor (Canada) SP - 1023

Track: Interdisciplinary

Debate: This house believes that tumour-specific radiosensitisation is an unachievable radiobiological fantasy

Tuesday, 16 May 2023 11:00 - 12:15 Schubert

Chair: Geoff Higgins -

Chair: Paul Span -

11:00 Introduction & voting SP - 1024

11:03 For the motion
A. Chalmers (United Kingdom) SP - 1025

11:18 Against the motion
C. Vens (United Kingdom) SP - 1026

11:33 For the motion - rebuttal
T. Rieskmann (Germany) SP - 1027

11:48 Against the motion - rebuttal
P. Lambin (The Netherlands) SP - 1028

12:03 Discussion & voting SP - 1029

Track: Interdisciplinary

Symposium: Shared decision-making in radiotherapy

Tuesday, 16 May 2023 11:00 - 12:15 Strauss 3

Co-Chair: Hela Hammami -

Chair: Dylan Callens -

11:00 Shared decision-making - Why and how to?
A. Pieterse (The Netherlands) SP - 1030

11:25 The RTTs role in shared decision making
L. Smets (Belgium) SP - 1031

11:50 The patient voice
S. Gijssels (Belgium) SP - 1032

Track: Clinical

Joint Symposium: ESTRO-RANZCR: Role of radiotherapy in renal cell carcinoma: From the primary to the metastatic setting

Tuesday, 16 May 2023 11:00 - 12:15 Lehar 1-3

Chair: Gerry Adams -

Chair: Thomas Zilli -

11:00 Primary renal cell carcinoma
S. Siva (Australia) SP - 1033

11:25 Oligometastatic renal cell carcinoma SP - 1034
C. Franzese (Italy)

11:50 Immunotherapy and SABR for renal cell carcinoma SP - 1035
S. Kroeze (Switzerland)

Track: Clinical

Joint Symposium: ESTRO-ESGO-ESP: Guidelines on cervical cancer

Tuesday, 16 May 2023 11:00 - 12:15

Hall A

Chair: David Cibula & TBC

11:00 Project introduction SP - 1036
D. Cibula (Czechia)

11:05 Surgery (T1a, T1b1 - T1b3, FST, Cancer in pregnancy) SP - 1037
D. Cibula (Czechia)

11:20 Locally advanced disease and adjuvant treatment SP - 1038
U. Mahantshetty (India)

11:35 Systemic treatment in advanced and metastatic disease SP - 1039
R. Nout (The Netherlands)

11:50 Pathology SP - 1040
M.R. Raspollini (Italy)

12:05 Discussion SP - 1041

Track: Physics

Symposium: What's new in particle therapy?

Tuesday, 16 May 2023 11:00 - 12:15

Strauss 1

Co-Chair: Villads Lundsteen Jacobsen

Chair: Ye Zhang

11:00 Towards online-adaptive particle therapy: RAPTOR consortium SP - 1042
F. Albertini (Switzerland)

11:18 Real-time motion management - Dream or reality? SP - 1043
B. Knäusl (Austria)

11:36 AI in particle therapy - From automated planning to treatment verification SP - 1044
K. Stutzer (Germany)

11:54 Proton-FLASH SP - 1045
P. Poulsen (Denmark)

*Track: Physics***Symposium: Handling longitudinal imaging data**

Tuesday, 16 May 2023 11:00 - 12:15

Strauss 2

Co-Chair: Magdalena Bazaloca-Carter

-

Chair: Marianne Aznar

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|-------|--|-----------|
| 11:00 | Temporal volume changes during online adaptive MRgRT: Potential and challenges
<u>U. Bernchou (Denmark)</u> | SP - 1046 |
| 11:18 | Handling imaging data for future adapt-to-response workflows
<u>J. Habrich (Germany)</u> | SP - 1047 |
| 11:36 | Delta-radiomics in MR guided RT
<u>D. Cusumano (Italy)</u> | SP - 1048 |
| 11:54 | Analyses of longitudinal imaging data for outcome prediction
<u>J. van Timmeren (The Netherlands)</u> | SP - 1049 |

*Track: RTT***Symposium: Use of virtual reality in radiotherapy**

Tuesday, 16 May 2023 11:00 - 12:15

Strauss 3

Co-Chair: Celeste Oliveira

-

Chair: Hussein Nahle

-

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|-------|---|-----------|
| 11:00 | VR in patient education
<u>B. Liszewski (Canada)</u> | SP - 1050 |
| 11:25 | VR in paediatric radiotherapy
<u>N. Anderson (Australia)</u> | SP - 1051 |
| 11:50 | VR in gynaenocology radiotherapy
<u>L. Van den Berghe (Belgium), V.D.B. Ludwig</u> | SP - 1052 |

*Track: Interdisciplinary***Debate: Closing session - "FLASH I love you but we only have 14 hours to save the earth". This house believes FLASH can do it!**

Tuesday, 16 May 2023 12:25 - 13:30

Schubert

Chair: Ben Slotman

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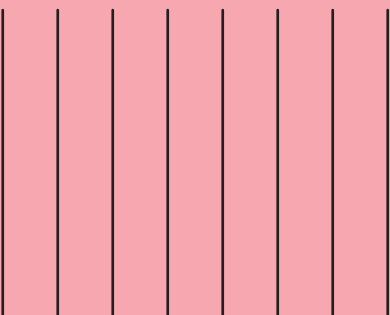
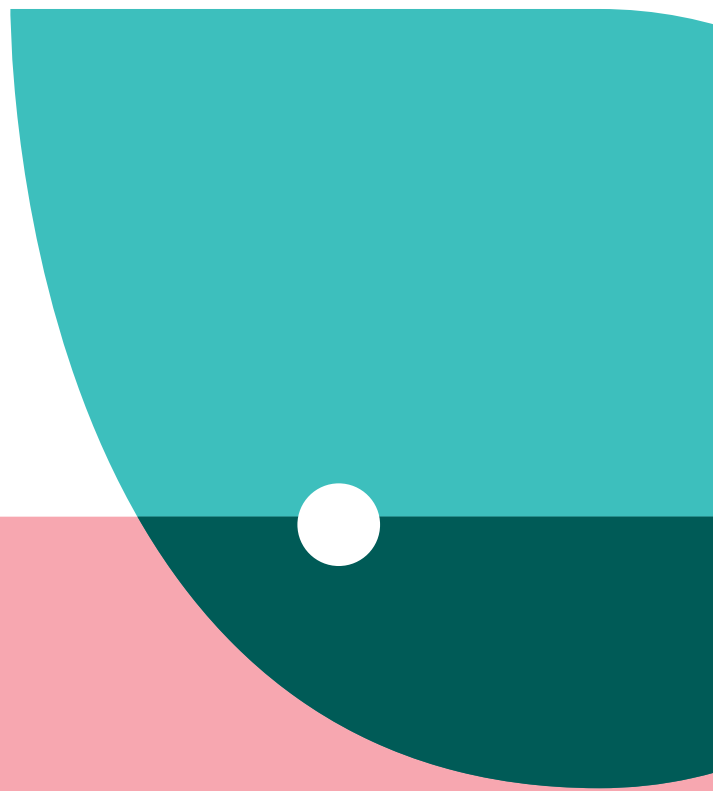
Chair: Anna Kirby

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|-------|---|-----------|
| 12:25 | Introduction & voting | SP - 1053 |
| 12:30 | For the motion
<u>J. Bourhis (Switzerland)</u> | SP - 1054 |
| 12:42 | Against the motion
<u>M. Guckenberger (Switzerland)</u> | SP - 1055 |
| 12:54 | For the motion - rebuttal
<u>B. Singers Sorensen (Denmark)</u> | SP - 1056 |
| 13:06 | Against the motion - rebuttal
<u>S. Korreman (Denmark)</u> | SP - 1057 |

13:18	Voting & winner presentation	SP - 1058
13:25	Closing remarks	SP - 1059
	<u>A. Kirby (United Kingdom)</u>	

Digital Posters



Track: Interdisciplinary

Poster (Digital): Other

-	Poster Stations
Older men's experience of sexual dysfunction associated with prostate cancer <i>W. Kinnaird (United Kingdom), M. Kirby, P. Schartau, V. Jenkins, S. Allen, H. Payne</i>	PO - 1061
Quality of life in patients treated with MR-Linac radiotherapy <i>V. Batumalai (Australia), T. Twentyman, M. Jameson, J. Descallar, R. Jagavkar, D. Crawford, M. Picton, C. Tran, L. McKenzie, J. de Leon</i>	PO - 1062
Perceptions of radiotherapy <i>T. O'Donovan (Ireland), B. Cashman, A. Devine, P.M. Mc Entee, D.A. England, P.A. Barry</i>	PO - 1063
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- Implementation of the 1.5T MR-linac: healthy volunteers, screen recording and initial experience PO - 1076
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- Evaluation of the nutritional pathway for patients at risk of malnutrition undergoing radiotherapy PO - 1080
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- Real world data of peer review rounds on a daily basis: A nine-year experience PO - 1083
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- Sleep disorders in cancer patients: A missing symptom PO - 1085
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- Compliance analysis in a phase III study of esophagus-sparing palliative spine irradiation. PO - 1086
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Days and Gray: The cost of cyber-crime in Radiation Oncology <i>R. Joyce (Ireland), C. Lyons, K. Rock, F. Jamaluddin, A. Flavin, M. Hickey, E. Bennett, P. Kelly, C. McGibney</i>	PO - 1089
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Proactive risk analysis for the introduction of MR-Guided Radiotherapy: FMEA approach <i>S. Nici (Italy), M. Buglione, S. Riga, C. Provezza, G. Iannello, A. Inturri, S. Veronesi, A. Guerini, S.M. Magrini, L. Spiazzi</i>	PO - 1091
Cost of breast cancer treatment: a longitudinal cohort study from tertiary cancer center. <i>T. Wadasadawala (India), S. Mohanty, S. Sen, P. Kanti, R. Sarin, S. Gupta, V. Parmar</i>	PO - 1092
Development of a patient decision aid prototype for treatment of muscle invasive bladder cancer <i>S. Sigurdson (Canada), H. Lukka</i>	PO - 1093
Rise of irradiated patients with prostate cancer and no other tumours during the corona pandemy <i>T. Brunner (Austria), T. Langsenlehner, H. Stranzl-Lawatsch, P. Winkler</i>	PO - 1094
The impact of the COVID19 pandemic on cancer care delivery for nasopharyngeal carcinoma in Singapore <i>S. Poh (Singapore), B.F. Tan, F.Y. Yong, K.W. Fong, J. Wee, T. Tan, M. Chua, K. Sommat, F.Q. Wang, I. Sin, A. Hussein, Z. Master, Y.L. Soong</i>	PO - 1095
Delay treatment profile in cancer patients referred to radiotherapy at a national referral hospital <i>S. Wirawan (Indonesia)</i>	PO - 1096
Carbon ion radiotherapy (CIRT) at MedAustron: early clinical experience <i>P. Fossati (Austria), M. Stock, M. Pelak, G. Martino, S. Tubin, J. Góra, U. Mock, M. Daniel, P. Georg, M. Mumot, C. Reschl, A. Carlino, E. Hug</i>	PO - 1097
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Did the oncology resident need training on sexual health for oncology patients? <u>N. Fourati (Tunisia)</u> , M. Frikha, A. Jribi, O. Nouri, W. Siala, W. Mnejja, J. Daoud	PO - 1103
Ethics and professionalism in French medical physicist community: survey results and implications. <u>C. Dejean (France)</u> , A. Lisbona, M. Moreau, J. Lagrange, F. Huguet, T. Haaser, A. Dieudonne	PO - 1104
Extended reality as a novel opportunity to unleash the power of radiotherapy in the digital era <u>F. Mastroleo (Italy)</u> , G. Marvaso, M. Pepa, S. Volpe, M. Zaffaroni, M.G. Vincini, G. Corrao, L. Bergamaschi, K. Mazzocco, G. Pravettoni, R. Orecchia, B.A. Jereczek-Fossa	PO - 1105
Podcasts involving patient experience: impact on clinical practice and research strategies <u>J. McNamara (United Kingdom)</u> , N. Julka-Anderson, L. Whittaker, S. Terry	PO - 1106
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Safety and efficacy of silibinin in patients with brain metastases after SRS: SUSTAIN trial <u>M.G. Carnevale (Italy)</u> , A. Romei, I. Bonaparte, I. Morelli, M. Banini, I. Desideri, V. Salvestrini, L. Visani, B. Detti, D. Greto, L. Livi	PO - 1109
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- Outcomes after Stereotactic Radiosurgery for Brain Metastases from Gastro-intestinal malignancies PO - 1112
P. Sharma (Ireland), G. Rangaswamy, J. Nicholson, J. Waldron, C. Skourou, M. Dunne, N. El Beltagi, C. Faul, D. Fitzpatrick
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- Single isocenter Multitarget Radiosurgery and multiple brain metastases: Preliminary Experience PO - 1114
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- Proton therapy re-irradiation plus chemotherapy achieves promising results in recurrent glioblastoma PO - 1115
D. Amelio (Italy), R. Pertile, S. Brugnara, S. Vennarini, I. Giacomelli, F. Chierichetti, P. Feraco, S. Sarubbo, F. Valent, D. Scartoni
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- HER2 expression correlated with intracranial control and prognosis of breast cancer brain metastases PO - 1117
A. Caroli (Italy), A. Revelant, F. Bertini, F. Gessoni, L. Vinante
- Brain directed therapy followed by systemic treatment in metastatic renal cell carcinoma PO - 1118
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- Mimicking neoadjuvant stereotactic radiosurgery for resection cavities of brain metastases PO - 1119
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- Adjuvant stereotactic radiotherapy and other postoperative strategies for resected brain metastases PO - 1121
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Reduced Intensity conditioning followed by allo-HSCT in patients with refractory/relapsing lymphomas <i>S. Saldi (Italy), F. Camilli, A. Guerini, A. Carotti, A. Pierini, V. Bini, S. Magrini, M. Buglione, C. Aristei</i>	PO - 1171

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Y. Sreenija (India), A. Abdul Nizar, A. Sasidharan, S. Kalavagunta, D. Dutta

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C. Hoppe (Germany), A. Schröder, D. Koch, D. Scafa, C. Leitzen, C. Schmeel, A. Mustea, A. Faridi, F. Giordano

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A. Horne (United Kingdom), J. Shortall, A. McWilliam, C. Faivre-Finn

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A. Gawish (Germany), B. Röllich, M. Ha, M. Walke, T. Brunner

Epidemiological, clinical and pathological characteristics of non-small cell lung cancer in Albania PO - 1314

E. Karaulli (Albania), E. Kozma, E. Abdiu, B. Kreka, A. Durbaku, S. Senjo, F. Kraja

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C. Nicolas-Boluda (Spain), G. Alberca, C. Cigaral, E. Tenllado, J. Hernández, K. Aylas, A. Noé, Á. Matías, L.A. Pérez Romasanta

Comparing intra- and inter-fraction motion of tumors with fiducial markers for lung SBRT PO - 1339

Y. Manabe (Japan), T. Shiinoki, K. Fujimoto, K. Ueda, M. Karita, M. Kajima, H. Tanaka

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Failure patterns after stereotactic body radiotherapy for lung cancer according to the T stage PO - 1341

H. Doi (Japan), T. Inagaki, M. Inada, N. Ishida, A. Ri, S. Tatsuno, Y. Wada, T. Uehara, K. Nakamatsu, M. Hosono, Y. Nishimura

Track: Clinical

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- Quality of life changes in esophageal cancer patients treated with preoperative or Radical ChemoRT PO - 1350
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- MR-Guided stereotactic radiotherapy for pancreatic oligometastases from renal cell carcinoma PO - 1353
J. van Vulpen (The Netherlands), H. Eijkelenkamp, G. Meijer, M. Intven
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- Impact of lymphopenia in patients with esophageal cancer after neoadjuvant chemoradiotherapy PO - 1355
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- Real life results of CROSS: the impact in overall survival and progression free survival. PO - 1357
R. Matias (Portugal), A. Pires, S. Costa, F. Fernandes, S. Zorro, J. Lima, S. Sarandão, D. Gomes, J. Rodrigues, O. Sousa
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- Implementation of modern radiotherapy in a multimodal approach of locally advanced pancreatic cancer PO - 1359
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M. valzano (Italy), M. Loi, P. Bonomo, L. Masi, R. Doro, V. Salvestrini, M. Banini, V. Lorenzetti, I. Morelli, A. Romei, V. Di Cataldo, G. Francolini, D. Greto, M. Mangoni, G. Simontacchi, L. Livi

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T. Nam (Korea Republic of), I.J. Cho, J. Jeong, Y. Kim, J. Song, S. Ahn, M.S. Yoon, S.H. Cho

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- SBRT for pulmonary metastasis of colorectal cancer: biologically effective dose 150 Gy is preferred PO - 1402
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- Dosimetric predictors of acute hematological toxicity of short course radiotherapy in rectal cancer PO - 1403
F. Ajengui (Tunisia), H. Ben Salah, S. Zouari, M. Bahri, N. Fourati, F. Njeh, L. Farhat, F. Elloumi, J. Daoud
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- Re-irradiation in locally recurrent rectal cancer: a national survey of the AIRO GI study group PO - 1406
G. Mantello (Italy), E. Galofaro, C. Di Carlo, S. Montrone, L. Caravatta, A. De Paoli, M.A. Gambacorta, D. Genovesi, M. Lupattelli, G. Macchia, R.M. Niespolo, F. Valvo, D. Arpa, M. Scricciolo, V. Chiloiro, G. Montesi, A. Pontoriero, V. Donato, P. Franco

AI model for predicting tumor response in rectal cancer using magnetic resonance imaging. PO - 1407

J. Heo (Korea Republic of), Y. Oh, O.K. Noh, M. Chun, H. Jang

Prognostic value of 18F-FDG PET/CT assessment in anal carcinoma in patients from FFCD-ANABASE cohort PO - 1408

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<u>M. Abdul-Latif (United Kingdom), J. Perera, H. Tharmalingam, Y. Tsang, P. Hoskin</u>	
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<u>A. Nardangeli (Italy), R. Autorino, S. Di Franco, R. Rinaldi, M. Campitelli, V. De Luca, S. Lucci, V. Lancellotta, G. Macchia, G. Ferrandina, M.A. Gambacorta</u>	
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D. Vallerossa (Italy), A. Galuppi, A. Benini, E. Galletta, L. Cavallini, M. Buwenge, G. Macchia, S. Cilla, S. Cammelli, F. Romani, L. Strigari, A.G. Morganti, M. Ferioli
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- Analysis of interim response in stage IVA carcinoma cervix and its influence on treatment outcome. PO - 1426
P. Tejaswi (India), K. Kattimani, B. Patil, S. Nadkarni, S. Kumari
- Risk factors for unplanned acute care visits in gynecologic oncology patients receiving radiotherapy PO - 1427
J. Croke (Canada), A. Dou, M. Doherty, G. Bouchard-Fortier, K. Han, M. Milosevic, J. Lukovic, S. L'heureux
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S. GY (India), B. Rai, T. Dey, R. Srinivasan, V. Jain, V. Suri, R. Bagga, S. Ghoshal
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- A phase I/II study of SBRT boost in patients with cervical cancer who are ineligible for ICBT PO - 1431
K. Ito (Japan), Y. Nakajima, H. Ogawa, A. Furusawa, K. Murofushi, S. Kito, N. Kino, T. Yasugi, T. Uno, K. Karasawa

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<i>R. Fullerton (United Kingdom), M. Zahra, A. Stille, J. Morgan</i>	
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<i>V. Lancellotta (Italy), L. Dinapoli, S. Mancini, A. Salvati, P. Cornacchione, G.F. Colloca, M. De Angeli, B. Fionda, G. Macchia, S. Scalise, M.A. Gambacorta, L. Tagliaferri</i>	
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<i>F.A. Lima Aires (Portugal), L. Salgado, L. Trigo, L. Carvalho</i>	
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<i>T. Charlton (United Kingdom), A. Ganguli, N. Gomes, K. Mackay, A. Taylor</i>	

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<i>A. Barcellini (Italy), G. Fontana, V. Dusi, A. Greco, A. Vai, S. Molinelli, A. Mirandola, A. Ghirelli, D. Zambrino, C. Sangalli, G. Baroni, R. Rordorf, V. Vitolo, E. Orlandi</i>	
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<i>A. Jimenez Franco (Spain), E. Rodríguez Tomàs, C. Prats Lluís, H. Castañe Vilafranca, G. Baiges Gaya, P. Araguas, B. Malave, D. Calderón, J.C. Acosta, M. Áñez, R. Benavides, F. Riu, M. De la Flor, C. Jordà, M. Melé, J. Repkova, S. Sabater, J. Camps, J. Joven, M. Arenas</i>	
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<i>D. Ebner (USA), S. Lester, M. Gamez, D. Routman, K. Price, H. Dong, S. Park, A. Chintakuntlawar, M. Neben-Wittich, L. McGee, Y. Garces, S. Patel, R. Foote, J. Evans</i>	
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<i>M. Lucarelli (Italy), M. Trignani, M. Borgia, R. Bonelli, A. Augurio, M. Taraborrelli, D. Genovesi</i>	

- Dynamic neutrophil-to-lymphocyte ratio - a new predictive biomarker for recurrent sarcomas? PO - 1444
C. Martinez (Canada), F. Cury, C. Freeman, R. Asso, N. Rastogi
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P. Romero Pareja (Spain), E. Gomis Selles, O. Muñoz Muñoz, I. Paguey Garrido, B.D. Delgado Leon, J.L. Lopez Guerra
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D. Schanne (Switzerland), A. Koch, O. Elicin, R. Giger, M. Medová, Y. Zimmer, D.M. Aebersold
- Exploration of serum citrulline as a predictive biomarker for late bowel toxicity in prostate SABR. PO - 1447
O. Houlihan (United Kingdom), K. Redmond, C. Fairmichael, C. Lyons, C. McGarry, D. Mitchell, A. Cole, D. Irvine, W. Hyland, M. Hanna, K. Prise, A. Hounsell, J. O'Sullivan, S. Jain
- Perfusion MRI and MRI spectroscopy: biomarkers of memory decline in pediatric brain tumor survivors PO - 1448
F. Tensaouti (France), N. Courbières, A. Troudi, E. Baudou, E. Baudou, L. Pollidoro, P. Pérán, G. Arribarat, J. Tallet, J. Danna, J. Pariente, J. Pariente, Y. Chaix, Y. Chaix, A. Laprie
- The effect of ADT on ADC change in intermediate-risk prostate cancer patients receiving radiotherapy PO - 1449
C. Onal (Turkey), G. Erbay, E. Oymak, O.C. Guler
- Hsa-miR-3651 could serve as a novel predictor for in-breast recurrence via FRMD3 PO - 1450
E. Ruznic (Austria), B. Zellinger, U. Bodenhofer, I.A. Engländer, C. Kronberger, B. Grambozov, M. Stana, J. Karner, G. Fastner, K. Sotlar, F. Sedlmayer, F. Zehentmayr
- Neutrophil-lymphocyte ratio dynamics associated with survival after SBRT for stage I-II lung cancer PO - 1451
S. Shahamatdar (USA), K. King, S. Roy, M. Batus, M.J. Fidler, P. Bonomi, G. Marwaha, M. Chowdhary

Track: Clinical

Poster (Digital): Urology

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SBRT and tyrosine kinase inhibitors in patients with oligometastatic renal cell carcinoma	PO - 1547
<i>C. Onal (Turkey), E. Oymak, O.C. Guler, B. Tilki, G. Yavas, P. Hurmuz, C. Yavas, G. Ozyigit</i>	

Track: Clinical

Poster (Digital): Sarcoma/Skin cancer/malignant melanoma

-	Poster Stations
Role of extra corporeal radiation in bone tumors	PO - 1548
<i>D. Anand (India)</i>	
Radiotherapy for elderly with facial non-melanoma skin cancer: Effectiveness in aged 80 and older	PO - 1549
<i>J. Choi (Korea Republic of), S.H. Park</i>	
Anti-PD1 immunotherapy and hypofractionated RT for locally advanced squamous cell skin cancer	PO - 1550
<i>I. Koukourakis (Greece), P. Mamalis, A. Giaktzidis, A. Zygogianni, M. Koukourakis</i>	
The effect of jaw tracking during radiotherapy for facial non-melanoma skin cancer	PO - 1551
<i>S.H. Park (Korea Republic of), J. Choi, D. Kim, S.H. Ahn</i>	
Scalp or face angiosarcoma treated with volumetric modulated arc therapy, a multicenter study	PO - 1552
<i>T. Iwai (Japan), T. Imagumbai, S. Hiraoka, T. Kishi, S. Okabayashi, R. Ashida, T. Mitsuyoshi, Y. Matsuo, T. Ishigaki, T. Mizowaki, M. Kokubo</i>	
Implementation of 3D printed bolus for skin external radiotherapy without a marketed medical device	PO - 1553
<i>L. Parent (France), A. Tournier, C. Chira, A. Ducassou, L. Couarde, V. Bouyssou, L. Panassié, G. Hangard, L. Vieilleveigne</i>	
Degraded 4 MeV electron beam in treating basal cell carcinoma: Safety study	PO - 1554
<i>A. Valve (Finland), S. Koskenmies, A. Anttonen, H. Nurmi, M. Hernberg, M. Tenhunen</i>	

- Treatment of lower limb Kaposi sarcoma (KS) with radiotherapy (RT) and 3D printed custom bolus PO - 1555
K. Tiigi (Estonia), R. Tiigi, A. Tšžik, N. Saveljev, M. Tigasson
- Pattern of disease progression following locoregional treatment in oligometastatic sts patients PO - 1556
L. Angelini (Italy), M. Loi, A.G. Allegra, D. Greto, L. Burchini, G. Scoccianti, F. Muratori, D.A. Campanacci, G. Roselli, A. Palomba, C. Becherini, C. Mattioli, M. Ganovelli, B. Guerrieri, M.G. Carnevale, M. Valzano, G. Francolini, E. Scoccimarro, I. Meattini, B. Detti, G. Simontacchi, C. Arilli, M. Casati, L. Livi
- RT after Encorafenib and Binimetinib on BRAF mutated melanoma brain metastases. GEM1802-Phase II PO - 1557
A. Alvarez (Spain), I. Valduvico, A. Arance, R. Delgado, M.A. Berciano, F. López Campos, A. Soria, J.L. Romero, P. Sánchez Mauriño, A. Lucas, J. Martín Liberal, P.J. Prada, A. García Castaño, M.C. Alamo, E. Puertas, M. González Cao, A. Conde, R. Díaz Beveridge, J.A. Corona, C. Aguado, P. Foro, J. Vidal, F. López Soler, P. Cerezuela Fuentes, I. Márquez Rodas
- Five-fraction protontherapy for skull base chordomas and chondrosarcomas: first experience PO - 1558
M. Sallabanda (Spain), J.A. Vera, J.M. Pérez, M. Montero, A. de Pablo, R. Matute, J. Castro, F. Cerrón, A. Mazal, R. Miralbell
- Treatment outcomes and toxicities in patients with retroperitoneal sarcoma treated with radiotherapy PO - 1559
H. Cheng (Taiwan), Y. Liu
- Outcome and toxicity after adjuvant radiotherapy +/- bolus for extremity soft tissue sarcomas PO - 1560
M. Delavigne (Belgium), A. Gulyban, F. Shumelinsky, S. Beauvois, C. Al Wardi, D. Van Gestel
- Radiation- induced sarcoma after radiotherapy in breast cancer: analysis of a single institution. PO - 1561
M. Cerrolaza (Spain), V. Navarro, A. Lanuza, C. Colom, P. Sanagustin, A. Pardo, M. Gascon, A. Campos, R. Ibañez
- Radiotherapy treatment in non melanoma skin cancer (NMSC) PO - 1562
M. Árquez Pianetta (Spain), M. Arguís Pinel, A. Ejimeno Castejín, D. Gómez Gómez, M. Murcia, F.A. Castaño Zuleta, Y. López, J. Trilla, B. Malavé Chacón, D. Calderón, L. Torres Royo, C. Escuin Troncho, O. Engel, A. Santafé, P. Araguás Mora, J. Acosta Arteaga, F. Reventóz Martínez, M. Arenas Prat
- The role of postoperative radiotherapy in uterine sarcomas: a single institution analysis. PO - 1563
M. Cerrolaza (Spain), A. Mendez, V. Navarro, A. Lanuza, A. Miranda, A. Campos, M. Gascon, J.M. Ponce, R. Ibañez
- Using adjuvant radiotherapy for keloid scars: a patient and observer assessment study PO - 1564
A. Alves (Portugal), C. Sá, D. Saraiva, P. Soares, J. Casalta, G. Pinto
- Hyperthermia in combination with radiotherapy and chemotherapy in tissue sarcomas of trunk and limbs PO - 1565
P. trecca (Italy), M. Fiore, G. D'Ercole, G.M. Petrianni, P. Falco, C. Greco, E. Ippolito, S. Valeri, B. Vincenzi, S. Ramella

Low Rate of Function-Limiting Side Effects in High-Grade Soft Tissue Extremity Sarcomas PO - 1566

D. Koch (Germany), M. van der Hoek (Germany), D. Scafa, C. Leitzen, C. Schmeel, A. Strauss, S. Koob, G. Feldmann, F. Giordano

Track: Clinical

Poster (Digital): Paediatric tumours

-	Poster Stations
Health-related quality of life in survivors of childhood medulloblastoma: a systematic review <u>T. O'Donovan (Ireland), J. Delaney, A. Devine, P.M. McEntee, P.A. Barry, P.A. Barry, D.A. England</u>	PO - 1567
Pediatric anesthesia for external beam proton therapy. Local experience <u>M. Cherkashin (Russian Federation), A. Nikolaev, N. Vorobyov, F. Valieva, A. Gokoeva, N. Berezin, K. Boiko, N. Martynova, K. Suprun, N. Berezina</u>	PO - 1568
Radiation-induced lymphopenia in pediatric high-risk neuroblastoma <u>E. Gomis Selles (Spain), Ó. Muñoz Muñoz, B.D. Delgado León, P. Cabrera Roldán, A.M. Burqueño Caballero, J.L. López Guerra</u>	PO - 1569
Proton beam therapy in treating rhabdomyosarcoma in children: a systematic review. <u>T. O'Donovan (Ireland), L. Noonan, A. Devine, P.M. McEntee, P.A. Barry, D.A. England</u>	PO - 1570

Track: Clinical

Poster (Digital): Mixed sites/palliation

-	Poster Stations
Psychiatric comorbidity impact on radiotherapy and overall survival: a matched pair analysis. <u>M. Peters (The Netherlands), H. Boersma, P. S.N. van Rossum, J. van Oort, W. Cahn, J. J.C. Verhoeff</u>	PO - 1571
Recognition and treatment recommendations of oligometastasis in multidisciplinary tumor boards <u>S.M. Christ (Switzerland), P. Heesen, U.J. Muehlemaier, K. Pohl, G.W. Thiel, J. Willmann, M. Ahmadsei, T.E. Kroese, M. Mayinger, P. Balermas, A. Wicki, N. Andratschke, M. Huellner, M. Guckenberger</u>	PO - 1572
Oligometastatic prostate cancer: outcomes and toxicity of stereotactic body radiation therapy (SBRT) <u>E. Gomis Selles (Spain), Ó. Muñoz Muñoz, P. Cabrera Roldán, B.D. Delgado León, J.L. López Guerra</u>	PO - 1573
Spine stereotactic radiosurgery in the management of metastatic pheochromocytoma <u>T. Beckham (USA), B. Amini, T. Briere, M. Wang, D. Yeboa, M.F. McAleer, M. Tom, S. Perni, L. Rhines, C. Tatsui, R. North, C. Alvarez-Breckenridge, A. Ghia, J. Li</u>	PO - 1574
A phase II trial of PRaG regimens rechallenge for PD-1 inhibitor resistance in advanced tumors <u>M. Xu (China), C. Zhang, P. Xing, Y. Kong, J. Zhang, L. Zhang</u>	PO - 1575
A retrospective analysis on patients treated with Lattice Radiation Therapy: toxicity and response <u>F. Iori (Italy), S. Cozzi, P. Ciammella, A. Botti, V. Trojani, L. Giaccherini, M. Iori, C. Iotti</u>	PO - 1576

- Developing Quality Indicators from routine data in patients receiving palliative RT PO - 1577
C. Cavalli (United Kingdom), D.M. Williams, K. Le Calvez
- Sbrt boost following prior rt: toxicity results from a phase I dose escalation study (Destroy-1) PO - 1578
D. Pezzulla (Italy), G. Macchia, M. Ferro, S. Cilla, M. Buwenge, C. Romano, S. Cammelli, P. Bonome, V. Picardi, M.A. Gambacorta, A.G. Morganti, F. Deodato
- Interim analysis after radiotherapy using MR-LINAC for the patients with locally advanced HCC PO - 1579
C. Kay (Korea Republic of), M. Kim, Y. Kwak
- Association of upfront treatment and survival of SVC syndrome in advanced non-small cell lung cancer PO - 1580
A. Berpan (Thailand), K. Trikhirhisthit
- Can MR-guided HIFU replace palliative radiotherapy in the treatment of painful bone metastases? PO - 1581
A. Zamagni (Italy), G. Siepe, M. Ferioli, M. Buwenge, M.C. Malato, C. Gasperini, G. Macchia, F. Deodato, S. Cilla, L. Campanacci, A. Bazzocchi, S. Cammelli, A.G. Morganti
- AI for Radiotherapy Auto-Contouring: Current Use, Perceptions of, and Barriers to Implementation PO - 1582
S. Hindocha (United Kingdom), K. Zucker, R. Jena, K. Banfill, K. Mackay, G. Price, D. Pudney, J. Wang, A. Taylor
- Need for relaxation techniques in patients undergoing radiotherapy - a single center interview PO - 1583
R. Asadpour (Germany), S.T. Klusen, N.A. Mayr, S.E. Combs, K.J. Borm
- Toxicity and clinical outcomes to abdominal radiotherapy using 5 fractions for non-surgical patients PO - 1584
R. ASSO (Canada), F. Cury, C. Freeman, N. Kopek
- Stereotactic ablative radiotherapy (SABR) for multiple oligometastases: efficacy and safety PO - 1585
C. Franzese (Italy), V. Vernier, D. Franceschini, T. Comito, P. Navarra, E. Clerici, M.A. Teriaca, M. Massaro, L. Di Cristina, B. Marini, C. Galdieri, P. Mancosu, S. Tomatis, M. Scorsetti
- Immunomodulation by partial tumor irradiation using and carbon-ions: bystander and abscopal effects PO - 1586
S. Tubin (Austria), P. Fossati, G. Martino, J. Gora, A. Carlino, E. Hug
- two years of ocular proton therapy in The Netherlands, clinical results PO - 1587
C. Rasch (Nauru), P. Bakker, M. Rodrigues, M. Marinkovic, K. Vu, J. Bleeker, C. van Rij, E. Kilic, J. Beenakker, N. Horeweg, G. Luyten
- Palliative care assessment in glioblastoma multiforme treated in a radiotherapy department. PO - 1588
B. Deben Mendez (Spain), M. Rodriguez Roldan, M.I. Garrido Botella, E. Gonzalez Del Portillo, A.A. Ocanto Martinez, M. Gonzalez Cantero, M. Teja Ubach, R. Rosel Aller, D. Martinez Perez, J. Pedregosa Barbas, J.A. Garcia Cuesta, C. García Torres, A. Castaño Cantos, Y. Vilches Aguirre, A. Alonso Babaro, R.M. Morera Lopez
- Clinical outcomes of two radiotherapy schedules for spinal cord compression PO - 1589
M. Hernandez Miquel (Spain), J. Romero Fernández, R. Benlloch Rodríguez, B. Gil Haro, M. López Valcárcel, C. de la Fuente Alonso, J. Velasco Jiménez, S. Córdoba Largo, M.I.

García Berrocal, I. Zapata Paz, M.R. Magallón Sebastian, P. Sarrión Rubio de la Torre, S. Santana Jiménez, S. Pérez Mata, F.J. Martínez Paredes, M.Á. Ruíz Rodríguez

Treatment planning of spine and pelvis using SEMAR-corrected CT sets PO - 1590

D. Ignatius (Australia), M. Sabet, P. Rowshanfarzad, Z. Alkhatib, S. Goodall, M. Ibrahim, A. Hirst, R. Croxford, J. Dass

Pentoxifylline and Vitamin E for radiation-induced fibrosis in breast and head and neck patients PO - 1591

M. Harpsøe (Denmark), C.N. Andreassen, B.V. Offersen

A Phase I Study Evaluating the Safety of SCART for Bulky metastatic or recurrent Cancer PO - 1592

W. Yan (USA), Q. Lu, W. Qi, S. Li, Y. Li, L. Wang, L. Han, Z. Shi, S. Tubin, W. Mourad, X. Wu, Y. Lin, J. Yang

Real-world electronic patient reported outcome utilization in patients receiving radiation therapy PO - 1593

I. Kudel (USA), H. Curry, P. Pennanen, M. Lahelma, J. Vuorio, R. Leskelä, Z. Shamsi, M. Bärlund

Optimizing palliative radiotherapy treatment in last 30 days of life PO - 1594

J.D. González (Spain)

Stereotactic Body Radiotherapy (SBRT) for Spinal Metastases PO - 1595

F. Ferrario (Italy), M. Torrì, C. Chissotti, L. Giannini, C.L. Deantoni, S. Broggi, M. Midulla, S.L. Villa, I. Dell'Oca, A. Fodor, C. Fiorino, A. Del Vecchio, S. Arcangeli, N.G. Di Muzio

Stereotactic body re-irradiation for bone metastases PO - 1596

L. Giannini (Italy), L. Giannini, F. Ferrario, M. Torrì, C. Chissotti, C.L. Deantoni, S. Broggi, L. Perna, C. Fiorino, M. Midulla, S.L. Villa, I. Dell'Oca, A. Fodor, A. Del Vecchio, S. Arcangeli, N.G. Di Muzio

Stereotactic Arrhythmia Radioablation for Ventricular Tachycardia: Single Center Experience PO - 1597

F. Colombo (Italy), F. Salaroli, I. Renna, E. Lattanzi, G. Ceccon, S. Gianni, C. Grondelli, M. Bergamini, C. Dell'Anna, M. Galaverni, G. Benecchi, G. Gonzi, M.F. Notarangelo, A. Palumbo, C. Ghetti, N. D'Abbiero, N. Simoni

SBRT with CDK4/6 inhibitors for oligorecurrent/oligoprogressive breast cancer patients PO - 1598

E. Ippolito (Italy), E. Onorati, C. Greco, M. Fiore, S. Silipigni, P. Matteucci, L. Cerasani, S. Carrafiello, V. Palumbo, S. Ramella

Chemotherapy-Induced Alopecia: A Ray of Hope about Hair Regrowth? PO - 1599

A. Jribi (Tunisia), S. Mhamdi, A. Hmad, W. Khechine, A. Daldoul, S. Zaied

Survival prognosis of elderly patients irradiated for spinal bone metastases with a new scoring tool PO - 1600

T. Bostel (Germany), T. Bostel, D. Wollschläger, J. Geis, E. Nikolaidou, A. Fabian, A. Fabian, N.H. Nicolay, H. Schmidberger, H. Schmidberger

Stereotactic body radiotherapy (SBRT) with or without dose boost in spinal oligometastatic patients PO - 1601

E. Pastorello (Italy), L. Nicosia, N. Gaj-Levra, R. Mazzola, F. Cuccia, V. Figlia, P. Ravelli, F. Ricchetti, M. Rigo, R. Ruggieri, F. Alongi

- Hypofractionated dose-intensified palliative RT: 25 Gy in 5 fractions for enhanced symptom control PO - 1602
J. Paragas (Canada), V. Di Lalla, M. David, S. Skamene, L. Alvarado
- Radiation therapy for hypersalivation in patients with amyotrophic lateral sclerosis PO - 1603
M. Rodríguez Roldán (Spain), M.I. Garrido Botella, E. González del Portillo, B. Debén Méndez, A. Colmenar Romero, A. Ocampo Martínez, M. González Cantero, M. Teja Ubach, R. Rosel Aller, A. Alonso Babarro, M. Varela Cerdeira, R. Morera López
- Impact of COVID-19 pandemic in our Radiation oncology department PO - 1604
P. Valencia Nieto (Spain), M. Herrera Román, M. Sánchez Belda, A.M. Cabezas Mendoza, D. Miguel Pérez, J.M. De Frutos Baraja, A. Casado Camacho, R. Jaraiz Diaz, P. Alonso Martínez, P. Diezhandino García
- LATTICE radiotherapy: A one institution experience PO - 1605
I. Solero (Spain), A. Ciafre, J. Germain, O. Prato, M. Borrás, M.J. Perez-Calatayud, F. Celada, M. Berenguer, A. Conde
- Metastatic tumor burden in cancer patients: implications for the oligometastatic spectrum theory PO - 1606
S.M. Christ (Switzerland), K. Pohl, J. Willmann, P. Heesen, M. Ahmadsej, U.J. Muehlemaier, A. Kühnis, E. Vlaskou Badra, M. Mayinger, P. Balermipas, N. Andratschke, M. Huellner, M. Guckenberger
- Same-day MRI-LINAC guided single fraction radiosurgery for painful non-spine bone metastases PO - 1607
E. Kretschmer (Switzerland), M. Mayinger, M. Chamberlain, N. Weitkamp, S. Ehrbar, M. Bogowicz, L. Wilke, S. Tanadini-Lang, N. Andratschke, M. Guckenberger, H. Garcia
- Synergistic effect of stereotactic radiotherapy and immunotherapy: an italian multicentric study PO - 1608
A. Gorza, G. Fanetti (Italy), V. Baggio, I. Turturici, O. Servodio, A. Revelant, F. Gessoni, A.F.S. Minissale, F. Matrone, F. Bertini, A. Donofrio, M. Moro, P. Chiovati, F. Ferrarese, M. Mascarini
- Lung metastasis treatment with Stereotactic Body Radiation Therapy: a single institution experience PO - 1609
S. Costa (Portugal), F. Sousa, P. Leite-Silva, D. Gomes, O. Sousa
- SBRT as a radical local treatment in oligometastatic disease PO - 1610
E. Gonzalez Del Portillo (Spain), A. Castaño Cantos, R. Rosel Aller, M. Rodríguez Roldán, I. Garrido Botella, M. Teja Ubach, M. González Cantero, B. Debén Méndez, V. Duque Santana, I. Rodríguez Rodríguez, L.A. Glaría Enríquez, A. Escribano Uzcudun, B. Belinchón Olmeda, Á. Manso de Lema, R. Matute Martín, L. Miralles Olivar, R.M. Morera López
- Paroxysmal Atrial Fibrillation In Elderly: Linac-Based Sbrt Arrhythmia Radioablation Phase 2 Trial PO - 1611
F. Gregucci (Italy), A. Di Monaco, I. Bonaparte, A. Surgo, R. Carbonara, M.P. Ciliberti, F. Di Guglielmo, M. Caliendo, E. Paulicelli, E. Ludovico, I. Romanazzi, M. Grimaldi, A. Fiorentino
- Inter and intrafraction motion in SABR patients treated for bone oligometastasis PO - 1612
H. Hawes (United Kingdom), H. Grimes, S. Moinuddin, S. Petkar, A. Webster
- Is lumbosacral plexus delineation a must in modern pelvic radiotherapy? PO - 1613
Z. Dahbi (Morocco), F. KOUHEN, M. MOUKHLISSI

Track: Physics

Poster (Digital): Automation

-	Poster Stations
Head and Neck high-risk lymph nodes detection – a three-dimensional deep learning proposal <i>T. Yu, Y. Lin, <u>Y. Lu (Taiwan)</u>, C. Huang, W. Yan</i>	PO - 1614
Automated treatment planning – Three-year clinical summary of dosimetry and user experience <i><u>J. wu (USA)</u>, Y. sheng, S. yoo, X. li, F. yin, Q. wu</i>	PO - 1615
The importance of regional analysis in contour comparison <i><u>H. Chamberlin (United Kingdom)</u>, E. Henderson, R. Cowan, C. Anandadas, F. Wilson, C. Hague, C. Chan, L. Davies, M. Daly, C. Eccles, M. Harris, M. Maxwell, Z. Oong, Z. Turpin, J. Radford, S. Howell, S. Astley, M. Aznar, E. Vasquez Osorio</i>	PO - 1616
Multicentric evaluation of a machine learning model to streamline the RT patient-specific QA process <i><u>N. Lambri (Italy)</u>, V. Hernandez, J. Sáez, M. Pelizzoli, S. Parabicoli, A. Bresolin, D. Dei, C. Franzese, P. Gallo, F. La Fauci, F. Lobefalo, L. Paganini, G. Reggiori, S. Tomatis, D. Loiacono, M. Scorsetti, P. Mancosu</i>	PO - 1617
Automation of the Picket Fence quality control test through digital image processing <i><u>J. Alonso Muriedas (Spain)</u>, M. Annier González, M. Gutiérrez Ruiz, R. Astudillo Olalla, R. Fabregat Borrás, F. Gómez Enriquez, D. Bruzos López, G. Camacho de la Vega, A. Reguilón Martín, J. Albendea Roch, F. Pinto Guevara, M. García Lamela, S. Ruiz Arrebola</i>	PO - 1618
AI-based classifier using geometrical features to minimize heart dose in left breast with VMAT <i><u>A. Bresolin (Italy)</u>, P. Gallo, F. La Fauci, F. Lobefalo, L. Paganini, G. Reggiori, M. Pelizzoli, S. Parabicoli, N. Lambri, P. Mancosu, R. Spoto, L. Dominici, D. Franceschini, M. Scorsetti, S. Tomatis</i>	PO - 1619
Transferability of deep learning models to the segmentation of gross tumour volume in brain cancer <i><u>A. Duman (United Kingdom)</u>, P. Whybra, J. Powell, S. Thomas, X. Sun, E. Spezi</i>	PO - 1620
An automated treatment planning method for prostate SABR <i><u>J. Wood (United Kingdom)</u>, A. McGowan, W. Beasley, M. Serra</i>	PO - 1621
Evaluation of a CT scanner based deep learning auto-contouring solution for lung radiotherapy <i><u>M. Williams (United Kingdom)</u>, S. Berenato, C. Möhler, A. Millin, P. Wheeler</i>	PO - 1622
MCO-based training of RapidPlan for lung cancer improves sparing of heart and oesophagus <i><u>M. Hordnes (Norway)</u>, K. Fjellanger, I.M. Sandvik, B.J.M. Heijmen, S. Breedveld, L. Rossi, T.H. Sulen, H.E.S. Pettersen, L.B. Hysing</i>	PO - 1623
Automated Delineation of Neurovascular Tissue in MR-guided Radiotherapy for Prostate Cancer <i><u>I. van den Berg (The Netherlands)</u>, M.H. Savenije, F.R. Teunissen, W.M. Brink, M.J. Rasing, S.M. van de Pol, C.A. van den Berg, H.H. van Melick, J.R. van der Voort van Zyp</i>	PO - 1624
Reproducibility of AI-based contour generation on synthetic CT	PO - 1625

I. Coric (Germany), N. Wernlein, M. Nachbar, D. Wegener, S. Boeke, D. Zips, C. Gani, D. Thorwarth

Knowledge-based planning for meningioma PO - 1626

D. Kopeć (Poland), A. Zawadzka, D. Bodzak, P. Kukolowicz, K. Dyttus-Cebulok

Interobserver study of deep learning-based segmentation for nodal target volumes in breast cancer PO - 1627

C. Adriaans (The Netherlands), F. Dankers, C. Papalazarou, N. Hoekstra

Dosimetric Evaluation of MR-based Deep Learning Automatic Contouring in the Pelvis PO - 1628

J. Wyatt (United Kingdom), L. Rusko, R. Pearson, B. Kolozsvári, B. Deák-Karancsi, V. Czipczer, Z. Karancsi, E. Ruff, B. Irmay, B. Tass, K. Hideghéty, S. Petit, M. Capala, F. Wiesinger, R. Maxwell, H. McCallum

Tuning of lexicographic optimisation-based planning for cervical cancer PO - 1629

P. Caricato (Italy), S. Trivellato, R. Pellegrini, M.C. Daniotti, B. Bordigoni, S. Meregalli, E. Bonetto, V. Faccenda, D. Panizza, S. Arcangeli, E. De Ponti

Lexicographic optimization-based planning for brain metastasis radiosurgery with coplanar arcs PO - 1630

S. Trivellato (Italy), P. Caricato, R. Pellegrini, M. Daniotti, G. Montanari, D. Panizza, V. Faccenda, S. Arcangeli, E. De Ponti

Commercial deep learning-based automated treatment planning validation for oropharyngeal cancer PO - 1631

F. Dankers (The Netherlands), P. Balasupramaniam, M. Brussee, A. Onderwater, M. de Jong, E. Astreïnidou

deep learning-based automatic segmentation of rectal tumors in endoscopy images PO - 1632

A. Thibodeau-Antonacci (Canada), L. Weishaupt, A. Garant, C. Miller, T. Vuong, P. Nicolai, S. Enger

Clinical evaluation of deep learning-based nodal structures segmentation for gynecological cancers PO - 1633

S. Deshpande (Australia), P. Chlap, R. Finnegan, D. Al Mouiee, L. Holloway, K. Lim, V. Do

Validation of a U-Net-based algorithm for MRI-guided extremity soft tissue sarcoma GTV segmentation PO - 1634

L. Etzel (Germany), F. Navarro, T. Tomov, S. Münch, L. Schüttrumpf, J. Shakhtour, C. Knebel, S.K. Schaub, N.A. Mayr, H.C. Woodruff, P. Lambin, A.S. Gersing, D. Bernhardt, M.J. Nyflot, B. Menze, S.E. Combs, J.C. Peeken

Evaluation of CBCT-based auto contouring for online adaptive radiotherapy of cervical cancer PO - 1635

A. Badey (France), A. Arnaud, A. Bigou, G. De Rauglaudre, A. Nagy, L. Vieillevisne, C. Khamphan

Comprehensive analysis of different commercial auto-segmentation tools for multi-site OAR contouring PO - 1636

G. Heilemann (Austria), M. Buschmann, W. Lechner, V.M. Dick, F. Eckert, M. Heilmann, H. Herrmann, M. Hudelist-Venz, M. Moll, J. Knoth, S. Konrad, I.M. Simek, C. Thiele, Z. Alexandru-Teodor, D. Georg, J. Widder, T. Petra

Deep learning-based IMRT treatment planning on synthetic-CT for ART in NSCLC-patients PO - 1637

D. Callens (Belgium), L. Vandewinckele, P. Berkovic, F. Maes, M. Lambrecht, W. Crijns

- Physician-specific preferences yield minor differences in knowledge-based planning generated plans PO - 1638
R. Kaderka (USA), N. Dogan, E. Bossart
- Autosegmentation of structures for Cranial Spinal Irradiation patients using Deep Learning PO - 1639
J. Kallehauge (Denmark), R. Worawongsakul, O. Nørrevang, K. Seiersen, Y. Lassen-Ramshad
- MRI-based deep learning autocontouring: Evaluation and implementation for brain radiotherapy PO - 1640
N. Alzahrani (United Kingdom), A. Henry, A. Clark, B. Al-Qaisieh, L. Murray, M. Nix
- Clinical evaluation of autosegmentation using AI with manual segmentation of breast tissue PO - 1641
R. Stoica (Romania), C. Pop-Casandra, R.G. Curca, A.M. Radu, B. Chivu, S.C. Vlad, B. Anghel, T. Popescu, D. Grama, M. Stanescu, L. Bicsi, D. Dușe
- Gaze angle prediction for ocular proton therapy from anatomical features PO - 1642
D. Björkman (Switzerland), D. Björkman, R. Via, A. Lomax, G. Baroni, D.C. Weber, J. Hrbacek
- Towards automated treatment planning for robotic stereotactic radiosurgery PO - 1643
M. Nachbar (Germany), G. Acker, G. Acker, C. Senger, K. Mauersberger, R. Schild, W. Kuschke, D. Zips
- Robustness of nodal outlining software for breast radiotherapy PO - 1644
A. McBride (United Kingdom), R. Elt, C. Bennett
- Deep learning and atlas-based approaches for Total Marrow and Lymphoid Irradiation segmentation PO - 1645
D. Dei (Italy), N. Lambri, L. Crespi, R. Coimbra Brosio, D. Loiacono, M. Scorsetti, P. Mancosu
- KB plan optimization models' transferability: multi-institutional international consortia validation PO - 1646
L. Placidi (Italy), R. Castriconi, G. Benecchi, M. Burns, E. Cagni, P. Griffin, C. Markham, K. McGoldrick, V. Landoni, E. Moretti, C. Oliviero, V. Panettieri, G. Rambaldi Guidasci, T. Rancati, A. Turner, A. Scaggion, A. Tudda, C. Fiorino
- Novel dataset validation of deep learning models for autocontouring of head and neck, and prostate PO - 1647
D. Sandys (United Kingdom), N. Fersht, A. Thompson, R. Davda, S. Khan, M. Bristow, P. Hessey, A. Schwaighofer
- Deep Learning-Based Automatic Segmentation for Brain OARs: Accuracy and Dosimetric Impact PO - 1648
A. Turcas (Romania), C. Gheara, D. Leucuta, C. Balan, C. Dana
- Style-based generative model to reconstruct head and neck 3D CTs PO - 1649
A. Cafaro (France), T. Henry, Q. Spinat, J. Colnot, A. Leroy, P. Maury, A. Munoz, G. Beldjoudi, L. Hardy, C. Robert, V. Lepetit, N. Paragios, V. Grégoire, E. Deutsch
- A 3D transfer learning approach for identifying multiple simultaneous errors during radiotherapy PO - 1650
C. Wolfs (The Netherlands), K. van den Berg, F. Verhaegen

- Inter-institute transferability of KB plan prediction models for FB LWB on DIBH candidates PO - 1651
A. Tudda (Italy), C. Roberta, G. Benecchi, F. Dusi, V. Landoni, A. Mazzilli, C. Oliviero, A. Scaggion, L. Placidi, C. Fiorino
- KB multi-institutional plan prediction of the left whole breast irradiation with tangential fields PO - 1652
R. Castriconi (Italy), A. Tudda, G. Benecchi, E. Cagni, F. Dusi, A. Ianaro, V. Landoni, T. Malatesta, A. Mazzilli, G. Meffe, C. Oliviero, L. Placidi, G. Rambaldi Guidasci, A. Scaggion, V. Trojani, C. Fiorino
- Auto-contouring of cardiac avoidance region for cardiac sparing lung radiotherapy PO - 1653
T. Marchant (United Kingdom), G. Price, A. McWilliam, E. Henderson, D. McSweeney, K. Banfill, J. King, C. Barker, C. Faivre-Finn
- Does data curation matter in deep learning segmentation? Clinical vs edited GTVs in glioblastoma. PO - 1654
K. Hochreuter (Denmark), J.F. Kallehauge, J. Ren, S.S. Korreman, S. Lukacova, J. Nijkamp, A.K. Trip
- Multi-center auto-segmentation model for internal mammary nodes using clinical data: A DBCG study PO - 1655
E.R. Skarsø (Denmark), L.H. Refsgaard, L. Hindhede Refsgaard, A. Saini, E.L. Lorenzen, E. Maae, E. Yates, I. Jensen, K. Andersen, K. Boye, L.W. Matthiessen, M. Maraldo, M. Berg, M.H. Nielsen, M. Møller, S.A. Al-Rawi, B. Offersen, S.S. Korreman
- autoencoder-based quality assurance of deep learning segmentation of parotid glands in HNC patients PO - 1656
S.W. Zijlstra (The Netherlands), A. de Biase, C. Brouwer, S. Both, J. Langendijk, P. van Ooijen
- Clinical validation of AI-based CT auto-contouring for prostate cancer Radiotherapy PO - 1657
G. Palazzo (Italy), P. Mangili, C. Deantoni, A. Fodor, C. Cozzarini, S. Broggi, A. Del Vecchio, N.G. Di Muzio, C. Fiorino
- Specificity and limits of Ethos template-based intelligent dose optimization engine PO - 1658
B. Roberfroid (Belgium), A. Barragán-Montero, E. Sterpin, J.A. Lee, X. Geets
- The impact of LIMBUS AI based contouring on the efficiency of prostate radiotherapy planning PO - 1659
K. Patel (United Kingdom), P. Rudd, K. Palmer, A. Starke, J. Poxon, P. Wells, K. Tipples, N. MacDougall
- Automated Clinical Treatment Planning for breast: from manual to auto planning in Clinical Practise PO - 1660
A. Vella (United Kingdom), A. Gallagher, L. Stubbs, R. Dodkins, H. Singh, S. Padmanaban
- Deep learning based planning for clinical use following the CHHiP trial PO - 1661
R. Helander (Sweden), F. Löfman, T. Atkins, S. Whittle
- AI-based auto-segmentation: advantages in delineation, absorbed dose-distribution and logistics PO - 1662
G.R. Sarria (Germany), F. Kugel, J. Layer, C. Dejonckheere, D. Scafa, F. Roehner, L.C. Schmeel
- Deep-learning based rectal tumor localization and segmentation based on multi-parametric MRI PO - 1663

K. Nie (USA), Y. Zhang, N. Yue, L. Shi, X. Sun

Clinical Evaluation of Deep Learning-based automatic CTV Segmentation: A Multi-Tumor Experience PO - 1664

Z. Hou (China), S. Li, J. Liu, S. Gao, J. Yan

When no news is good news: commercial automated EPID in vivo dosimetry deployed as a safety check PO - 1665

R. Caines (United Kingdom), M. Gilmore

Automated clinical-criteria-driven optimal planning: clinical experience with over 6000 patients PO - 1666

L. Hong (USA), Y. Zhou, Q. Huang, G. Jhanwar, J. Yang, H. Pham, L. Cervino, J. Deasy, M. Zarepisheh

Track: Physics

Poster (Digital): Imaging acquisition and processing

-	Poster Stations
Long axial field-of-view PET/CT-scanner for deep inspiration breath hold radiation therapy planning	PO - 1667
<u>L. Specht, F.L. Andersen, P.A. Andreasen, D. Dejanovic, A.K. Berthelsen, J. Friberg, M.G. Askløf, P.M. Petersen, E. Albrecht-Beste, V.N. Hansen (Denmark), I.R. Vogelijs, B.M. Fischer</u>	
An evaluation of a novel CBCT system: image quality, extended FoV and metal artefact reduction	PO - 1668
<u>G. Paiva Fonseca (The Netherlands)</u> , D. Lustermans, M. Bogowicz, V. Taasti, F. Vaassen, R. Canters, K. Theeuwen, W. van Elmpt, F. Verhaegen	
Optimizing MRI-based temperature-controlled hyperthermia by reconstructing undersampled acquisitions	PO - 1669
<u>R. Khatun (Germany)</u>	
Initial Assessment of Adaptive Pancreas SBRT Treatment Efficiency using ViewRay MRIdian A3i	PO - 1670
<u>A. Gutierrez (USA)</u> , K. Mittauer, R. Herrera, J. McCulloch, D. Alvarez, N. Bassiri-Gharb, R. Tolakanahalli, A. Kaiser, M. Hall, R. Kotecha, M. Mehta, M. Chuong	
3D patch cycle-GAN-based MR-to-CT synthesis from monocenter and multicenter training	PO - 1671
<u>P. Lekieffre (France)</u> , E. Collot, B. Texier, C. Hémon, S. Tahri, H. Chourak, I. Bessieres, P. Greer, J. Dowling, A. Barateau, C. Lafond, R. de Crevoisier, J. Nunes	
A pre-processing pipeline for 0.35T pelvic MR image quality enhancement: development and evaluation	PO - 1672
<u>M. Vagni (Italy)</u> , H.E. Tran, L. Boldrini, G. Chiloiro, A. D'Aviero, A. Re, A. Romano, L. Indovina, V. Valentini, D. Cusumano, L. Placidi	
Accuracy of electron density in a novel high-performance CBCT imaging system	PO - 1673
<u>T. Zhao (USA)</u> , A. Price, N. Knutson, E. Laugeman, Y. Hao, L. Henke, P. Samson	
Beam width determination of kilovoltage CBCT implemented in Ethos linear accelerator	PO - 1674
<u>S. Gazdag-Hegyesi (Hungary)</u> , Á. Gáldi, E. Koszta, T. Major, C. Pesznyák	
Evaluation of synthetic CTs by 3D Cycle-GAN from prostate MR images	PO - 1675

E. Collot (France), P. Lekieffre, B. Texier, C. Hémon, S. Tahri, H. Chourak, A. Barateau, C. Lafond, R. de Crevoisier, J. Nunes

Optimising heart substructure visibility in 4D planning CT by compensating respiratory motion PO - 1676

M. van Herk (United Kingdom), T. Marchant, E. Henderson, D. McSweeney, A. Abravan, E. Vasquez Osorio, A. McWilliam, C. Faivre-Finn, G. Price

Unsupervised generation of synthetic CT from CBCT using 3D GAN in head and neck cancer radiotherapy PO - 1677

C. Hémon (France), B. Texier, P. Lekieffre, E. Collot, C. Lafond, A. Barateau, R. De Crevoisier, J. Nunes

DirectDensity CT image reconstruction algorithm in clinical practice: a survey PO - 1678

B. van der Heyden (Belgium), P. Wohlfahrt, V. Taasti, E. Bogaert

Deep learning approach to generate synthetic CT from CBCT for online adaptive radiotherapy in pelvis PO - 1679

L. Vellini (Italy), S. Menna, S. Zucca, J. Lenkowicz, F. Catucci, F. Quaranta, A. D'Aviero, E. Pilloni, M. Aquilano, C. Di Dio, M. Iezzi, A. Re, F. Preziosi, A. Piras, C. Votta, D. Piccari, V. Valentini, L. Indovina, G.C. Mattiucci, D. Cusumano

Validation of iMAR algorithm usage through dosimetric comparisons of iMAR vs MDO in different TPS PO - 1680

C.K. Torzsok (Chile), A. Ruiz, M. Ribeiro, F. Marangoni, J. Aponte, R. Plata, M. Pino, J.L. Rodriguez, H. Broque

MRI for 3D target temperature assessment in hyperthermia of locally advanced cervical cancer PO - 1681

C. Carrapiço-Seabra (The Netherlands), I. VilasBoas-Ribeiro, A. Rink, M. Franckena, S. Curto, G.C. van Rhoon

Physical characterization of an EPI DWI sequence for implementation of onboard tool in MR-linac PO - 1682

M. Nardini (Italy), L.N. Mazzoni, M. Galetto, A. Capotosti, A. Fidanzio, L. Boldrini, G. Chiloiro, A. Romano, G. Panza, C. Votta, G. Turco, R. Moretti, L. Indovina, L. Placidi

Accuracy of dose calculation using a novel high-performance cone-beam CT imager PO - 1683

M. Bogowicz (The Netherlands), V. Trier Taasti, G. Fonseca, D. Lustermans, C. Hazelaar, H. Hansen, F. Vaassen, R. Canters, W. van Elmpt

Characterization of A Novel High-Performance Cone Beam Computed Tomography Imaging System PO - 1684

T. Zhao (USA), A. Price, E. Laugerman, Y. Hao, N. Knutson, H. Li, L. Henke, P. Samson

Reconstruction of the mid-position image using NiftyReg and verification of the mid-position. PO - 1685

A. Carlin (United Kingdom), H. Grimes, J.R. McClelland, B. Eiben, C. Gillies

Establishing a reliable DIR methodology applied to pancreatic recurrence evaluation PO - 1686

S. Poeta (Belgium), M. Manderlier, C. Bouchart, A. Gulyban, Y. Jourani, N. Reynaert

Iterative reconstruction of MVCT with deep neural networks PO - 1687

S. Ozaki (Japan), S. Kaji, K. Nawa, T. Imae, K. Nakagawa

Diffusion MRI: modeling and processing of images for planning of intracranial pathology radiotherapy PO - 1688

K. Pomezova (Russian Federation), G. Goralchev, A. Chernyaev, A. Golanov

An automated strategy to evaluate the structure consistency of CBCT-to-CT synthesis <i>A. Szmul (United Kingdom), S. Taylor, I. Moreira, P. Lim, J. Cantwell, D. D'Souza, S. Moinuddin, M. Gaze, J. Gains, C. Veiga</i>	PO - 1689
The influence of CBCT reconstruction or sCT generation on bony anatomy based position verification. <i>Y. de Hond (The Netherlands), C. Hurkmans, R. Tijssen, P. van Haaren</i>	PO - 1690
Segmentation on low resolution magnetic resonance images for prostate radiotherapy <i>S. Fransson (Sweden), R. Strand, D. Tilly</i>	PO - 1691
Generation of tissues outside field of view of radiation therapy imaging based on machine learning <i>S. Kim (Korea Republic of), L. Yuan, T. Suh</i>	PO - 1692
Deep learning for perspective deformation correction in X-ray imaging <i>Y. Huang (Germany), A. Maier, F. Fan, B. Kreher, X. Huang, R. Fietkau, C. Bert, F. Putz</i>	PO - 1693
MRI derived brain morphometric measurements: effect of voxel size, anisotropy and slice orientation <i>T. Lusa Aquero (Spain), S. Chabert, A. Veloz</i>	PO - 1694
Biomechanical imaging biomarker to predict tumor progression after head and neck chemoradiotherapy <i>K. Fujimoto (Japan), T. Shiinoki, Y. Kawazoe, Y. Yuasa, W. Mukaidani, Y. Manabe, M. Kajima, H. Tanaka</i>	PO - 1695
Pydicar: An open-source tool for conversion and analysis of radiotherapy imaging data <i>P. Chlap (Australia), D. Al Mouiee, S. Deshpande, R. Finnegan, J. Cui, V. Chin, L. Holloway</i>	PO - 1696
Development of virtual CBCT simulator and deep-learning-based elemental material decomposition. <i>T. Shimomura (Japan), D. Fujiwara, Y. Inoue, A. Takeya, T. Ohta, Y. Nozawa, T. Imae, K. Nawa, K. Nakagawa, A. Haga</i>	PO - 1697
Towards MR contrast independent synthetic CT generation. <i>A. Simko (Sweden), M. Bylund, G. Jönsson, T. Löfstedt, A. Garpebring, T. Nyholm, J. Jonsson</i>	PO - 1698

Track: Physics

Poster (Digital): Quality assurance and auditing

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Characterization of a novel detector array for daily quality assurance in proton therapy <i>H. Devendranath (Germany), V. Flatten, N. Chofor, J. Wulff, B. Timmermann, A.A. Schönfeld</i>	PO - 1699
Size of mechanical isocenter of Varian accelerators – which accelerator is the best for SGRT <i>P. Kukulowicz (Poland), M. Tarchalski, D. Sałkowski</i>	PO - 1700
STereotactic Arrhythmia Radioablation in Europe–Treatment Unit QA Audit of the STOPSTORM Consortium	PO - 1701

Ł. Dolla (Poland), A. Grządziel, A. Bekman, S. Blamek, T. Latusek, M. Miszczyk, J.J. Verhoeff, M. Grehn, O. Blanck

Radcalc 3D Monte Carlo: tuning and validation of a new independent calculation-based tool PO - 1702

G. Sceni (Italy), A. Botti, O. Matteo, R. Sghedoni, V. Trojani, D. Finocchiario, D. Lambertini, A. Barani, V. Bertolini, M. Iori

Impact of Gun Grid Voltage on beam characteristics for a 1.5T Unity MRLinac PO - 1703

T. Foppen (The Netherlands), S. Woodings, W. de Vries, A. Wopereis, J. Wolthaus

Commissioning and implementation of the commercial daily QA tool in proton pencil beam scanning PO - 1704

S. Ruangchan (Thailand), P. Khongcharoen, B. Nayong, M. Chitnok, I. Israngkul Na Ayuthaya, T. Sanghangthum

Cone beam CT-based dose recalculation as plan-specific QA in online adaptive radiotherapy PO - 1705

G. Razinkas (Germany), R. Schindhelm, K. Breuer, S. Weick, J. Tamihardja, S. Wegener

Impacts of mechanical errors on dose distributions and control quality results for VMAT plans PO - 1706

C. Legrand (France), M. Posnic, D. Autret, J. Fontbonne, C. Fontbonne, S. Dufreneix

Use of an automated software module for monthly routine Machine QA tests PO - 1707

E. Bonanno (Italy), G. Borzi, N. Cavalli, M. Pace, G. Stella, C. Marino

E2E testing based on alanine and IC dosimetry for a new combination of TCS/OIS & PBS proton gantry PO - 1708

P. Roisl (Austria), H. Palmans, M. Schafasand, J. Hopfgartner, M. Stock, A. Carlino

Impact of log-file source and data frequency on the accuracy of log file based PSQA PO - 1709

A. Azzi (Indonesia), G. Heilemann, D. Georg, S.A. Pawiro, T. Mart, W. Lechner

Clinical implementation of the multivariate risk-adjusted control chart for monitoring plan quality PO - 1710

S. Sivabhaskar (USA), J. Buatti, M. De Oliveira, K. Duke, A. Roy, N. Kirby, S. Stathakis, N. Papanikolaou

A robotic dosimetry system by optical scanning of radiophotoluminescence coated immobilization masks PO - 1711

B. van der Heyden (Belgium), M. De Saint-Hubert, K. Himschoot, R. Geelen, L. Delombaerde, M. Caprioli, W. Crijns, D. Vandenbroucke, P. Leblans, L. de Freitas Nascimento

Quality Assurance of Pediatric Radiotherapy: a KBP multicentric cooperative initiative PO - 1712

A. Scaggion (Italy), S. Meroni, F. Cavagnetto, S. Barra, E. Bovo, S. Cavinato, A. Cirone, F. Leviero, F. Giannelli, T. Giandini, E. Pozzo, E. Pecori, G. Scarzello, M. Turazzi, M. Paiusco

MLC analysis using exit detectors on TomoTherapy PO - 1713

D. Tovmasian (Russian Federation), A. Loginova, A. Chernyaev, A. Nechesnyuk

FMEA risk analysis of surface-guided DIBH breast radiotherapy by using a commercial software tool PO - 1714

S. Russo (Italy), M. Esposito, A. Bruschi, A. Ghirelli, P. Alpi, F. Meacci, C. Delli Paoli, S. Scoccianti

Gamma test calculation using a Machine Learning model	PO - 1715
<i><u>S. Honorato Hernandez (Spain), P. Castro Tejero, D. Hernandez Gonzalez, R. Simon de Blas, P. Chamorro Serrano, M. Roch Gonzalez, L. Zaragoza Cocero</u></i>	
End-to-end tests for Cyberknife treatment delivery with RayStation treatment planning system	PO - 1716
<i><u>N. Perichon (Switzerland), M. Jaccard, M. Fargier-Voiron, O. Matzinger, S. Bulling</u></i>	
Increased clinical utility of MC secondary dose calculation vs state-of-the-art analytical algorithm	PO - 1717
<i><u>M. Linaa (Denmark), D. Sloth Møller, M. Alber, S. Nyberg Thomsen, L. Hoffmann</u></i>	
The effect of CT slice thickness and HUs on DICOM reference surface accuracy	PO - 1718
<i><u>T. Dong (China), Z. Zhou, Y. Liang, H. Zhu, B. Wang, H. Liang, B. Yang, J. Qiu</u></i>	
Can SunCHECK™ Patient replace phantom based SRS plan verification?	PO - 1719
<i><u>N. Shiravand (United Kingdom), A. Starke, J. Poxon, S. Wheeler, N. Macdougall</u></i>	
PSQA with IQM detector for high modulated fields: impact of a better small segments modelling	PO - 1720
<i><u>M. Zani (Italy), S. Calusi, T. Zoppi, L. Marrazzo, C. Arilli, M. Casati, A. Compagnucci, C. Talamonti, S. Pallotta</u></i>	
A new light on dose verification of high modulated spine SBRT plans with FFF	PO - 1721
<i><u>M. Oellers (The Netherlands), A. Swinnen, M. Walpot, F. Verhaegen</u></i>	
Action and tolerance level dependance on single, merge and multi ArcCHECK measurement strategy.	PO - 1722
<i><u>A. Walewska (Poland), A. Juda, S. Maluszcak, P. Wesółowska, M. Fillmann, E. Fajak</u></i>	
Film dosimetry of single isocenter stereotactic radiotherapy for multiple brain metastases	PO - 1723
<i><u>L. Bogers (The Netherlands), J. Zindler, M. de Goede, I. Mudde-van der Wouden, A. Petoukhova</u></i>	
Reduction of reported incidents when using an automated plan check software	PO - 1724
<i><u>D. Jurado-Bruggeman (Spain), I. Romera-Martínez, C. Muñoz-Montplet</u></i>	
An investigation of the Energy-Specific Isocentricity on SABR C-arm Linacs	PO - 1725
<i><u>S. Lim (USA), M. Lovelock, L. Happersett, J. Moran</u></i>	
Portal dosimetry pitfall for verification of 6 MV unflattened modulated plans	PO - 1726
<i><u>J. Calvo-Ortega (Spain), P. Greer, S. Moragues-Femenía, M. Pozo-Massó</u></i>	
Impact of the dosimetric leaf gap on the AAA portal dose image prediction algorithm	PO - 1727
<i><u>J. Calvo-Ortega (Spain)</u></i>	
The synthetic CT for CBCT-based online adaptive radiotherapy: challenges and QA	PO - 1728
<i><u>S. Wegener (Germany), S. Weick, R. Schindhelm, O.A. Sauer, J. Tamihardja, G. Razinskas</u></i>	
Sensitivity and specificity of secondary dose calculation and phantom QA for head-and-neck plans	PO - 1729
<i><u>S. Wegener (Germany), R. Abu Rashed, G. Razinskas</u></i>	
Logfile based automatic patient QA for daily MR guided adaptive radiotherapy	PO - 1730
<i><u>D. Tilly (Sweden), S. Fransson, M. Lundmark, U. Isacsson, A. Johansson</u></i>	

Evaluation of materials suitable for anthropomorphic multimodality (CT/MRI) phantoms for RT purposes	PO - 1731
<u>M. Alzahrani (United Kingdom)</u> , D. Broadbent, I. Teh, B. Al-Qaisieh, A. Walker, R. Lamb, R. Speight	
Scripts system implementation to improve quality management in radiotherapy	PO - 1732
<u>B.A. Malave Chacon (Spain)</u> , J.C. Acosta Arteaga, P. Araguas Mora, V.D. Calderón Ávila, M. Murcia Mejía, M. Arguis Pinel, R. Abella Cereigido, V. Hernández Masgrau, M. Arenas Prat	
Comprehensive automated structure QA in radiotherapy	PO - 1733
<u>L.H. Praestegaard (Denmark)</u>	
Daily Elekta Unity beam checks with the on-board MV imager during the first year of clinical use	PO - 1734
<u>G. Hilgers (The Netherlands)</u> , M. Ikink, I. Potters, D. Schuring	
Dosimetry intercomparison under reference conditions	PO - 1735
<u>E. Adolfsson (Sweden)</u> , K. Westerberg Fransson, P. Larsson, J. Eriksson, E. Dellow, M. Olsson	
The role of in vivo dosimetry in the continuous quality improvement of lung stereotactic treatments	PO - 1736
<u>M. Esposito (Italy)</u> , P. Mancosu, A. Bruschi, A. Ghirelli, S. Pini, P. Alpi, R. Barca, C. Delli Paoli, F. Meacci, B. Grilli Leonulli, S. Fondelli, L. Paoletti, S. Scoccianti, S. Russo	
Profile of centres participating in paediatric radiotherapy clinical trials: initial QUARTET report	PO - 1737
<u>A. Turcas (Belgium)</u> , S. Kelly, E. Clementel, M. Gaze, L. Gandola, G. Horan, L. Padovani, C. Corning, T. Boterberg, H. Mandeville	
Hypofractionation with nodal SIB in cervical cancers: dummy run for the HYACINCT trial	PO - 1738
<u>W. Bacorro (Philippines)</u> , S.M. Cabrera, M. Bojador, M. Dumago, K. Baldivia, T. Sy Ortin	

Track: Physics

Poster (Digital): Detectors, dose measurement and phantoms

-	Poster Stations
A dedicated 4D phantom for MR-Linac time-resolved beam evaluation	PO - 1739
<u>L. Placidi (Italy)</u> , C. de Almeida Ribeiro, M. Nardini, M. Galetto, I. Zlatkova, N. Franza, L. Indovina	
Monte-Carlo benchmarked quantitative comparison of different dosimeters for ZAP-X characterisation	PO - 1740
<u>C. Souto (Portugal)</u> , M. Pires, V. Dias, A. Perez-Rozos, C. Huertas, C. Ferrer, C. Marcelino, M. Feijoo, M. Alber, C. Rodrigues	
Development of 2D pixel array ionization chamber system for Flash Proton beam	PO - 1741
<u>Y. Jang (Korea Republic of)</u> , T. Yang, S. Park, J. Kim, H. Jang, K. Kim, G. Kim, S. Choi	
Characterization of alanine/EPR pellets for reference dosimetry of UHDR beams of FLASH radiotherapy	PO - 1742
<u>M. Marrale (Italy)</u> , M.C. D'Oca, G. Milluzzo, S. Capaccioli, D. Del Sarto, F. Di Martino, G. Felici, L. Masturzo, M. Montefiori, F. Paiar, J. Pensavalle, E. Sangregorio, F. Romano	

- A novel anthropomorphic surrogate for advanced QA in stereotactic adaptive radiotherapy deliveries PO - 1743
M. Dierl (Germany), M. Robinson, M. Rose, A.A. Schönfeld, N. Chofo
- Multicentric characterisation of lateral beam profiles from 6 MV FFF beam of three 0.35T MR-linacs PO - 1744
A. Fogliata (Italy), R. El Gawhary, D. Cusumano, L. Placidi, F. Quaranta, M. Nardini, M. Rago, L. Indovina, S. Menna
- Study of 3D-printing conditions of thermoplastic materials for human tissue reproducibility PO - 1745
A. D'Anna (Italy), R. Galvagno, E. Bonanno, G. Borzi, N. Cavalli, A.M. Gueli, C. Marino, M. Pace, L. Zirone, G. Stella
- Challenges of online adaptive treatments verification PO - 1746
A. Galdi (Hungary), S. Gazdag-Hegyesi, C. Pesznyák, T. Major
- Modelling digital anthropomorphic phantoms for upright position treatment studies PO - 1747
W. Kozłowska (Switzerland), W. Larsen, J. Bossé, P. Segars, J. Farr
- Optimal printing parameters and dosimetric evaluation of patient-specific 3D printed bolus PO - 1748
B. Qi (Switzerland), T. Risse, G. Guibert, P. Weber
- Validation of local tolerances for Halcyon pre-treatment plan verification using PerFRACTION PO - 1749
V. Ganesan (United Kingdom), A. Ifthaker, G. Kidane, D. Withers
- RX tube without monitoring chamber, dose corrections and implications in radiobiology results PO - 1750
J.I. Lagares (Spain), M. Ibáñez, M. Oteo, M.Á. Martín, N. Chamorro, P. Arce, J.M. Pérez, M.Á. Morcillo
- Correlation between tolerances for EPID metrics and CI dose deviation for patient-specific VMAT QA PO - 1751
G. Martin (Spain)
- Validation of dose reconstruction system for patient specific QA : Mobius FX vs. Delta4DVH-anatomy PO - 1752
J. Kim (Korea Republic of), H. Park, M. Kim, M. Chun, Y. Oh, O.K. Noh, O. Cho, J. Heo, S.Y. Chung
- Feasibility of a linear diode array detector for commissioning of radiotherapy planning system PO - 1753
B. Cho (Korea Republic of), S.M. Hong, T.H. Klm, Y. Goh, S. Kim, U. Lee, M. Park, C. Jeong, J. Kwak
- Effective point of measurement of cylindrical ionization chambers in kilovoltage x-ray beams PO - 1754
R. Hill (Australia), B. Healy, W. Tan
- Sensitivity of myQA SRS detector to intentional errors in HyperArc plans. PO - 1755
N. Cavalli (Italy), E. Bonanno, G. Borzi, A. D'Anna, M. Pace, G. Stella, L. Zirone, C. Marino
- An analytical procedure to determine the ion recombination correction factor in FLASH beams PO - 1756
J. Bancheri (Canada), J. Seuntjens

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Tumor control probability-based criteria for clinical trial credentialing <i>V. Panettieri (Australia), P. Taylor, S.F. Kry</i>	PO - 1758
Verification of ZAP-X treatment plans with the Octavius 1600 SRS detector array <i>K. Büsing (Germany), J. Harmsen, P.D. Klassen, H.K. Looe, B. Poppe, D. Poppinga</i>	PO - 1759
A low budget synthesis apparatus for reproducible production of dosimetry gels <i>A. Runz (Germany), R. Eboue Teto, F. Dinkel, W. Johnen, A. Elter, S. Dorsch, G. Echner, C.P. Karger</i>	PO - 1760
Compare different types of radiation detectors used to determine the Quality Index on CyberKnife <i>K. Świątek (Poland), K. Matuszewski, M. Wosicki, B. Pawłowski</i>	PO - 1761
Dosimetric properties of a water-based liquid scintillator for use in kV energy photon beams <i>D. Bernier-Marceau (Canada), L. Beaulieu, É. Cloutier, M. Yeh</i>	PO - 1762
New protocol for small fields dosimetry in tomotherapy: an inter-department validation <i>C. Talamonti (Italy), C. Arilli, E. Gallio, L. Marrazzo, S. Pallotta, S. Russo, F.R. Giglioli</i>	PO - 1763
Implementation of SunCHECK Patient for systematic selection of gamma metrics in patient specific QA <i>T. Hehne (Germany), P. Rosenthal, A.A. Schönfeld, N. Chofor</i>	PO - 1764
Transit Dosimetry of SBRT with Electronic Portal Dosimetry Device in Patient with Spinal Implant <i>Y. Yedekci (Turkey), A. Elmalı, G. Demirkiran, G. Ozyigit, G. Yazici</i>	PO - 1765
High-resolution CMOS detector array for robotic SRS treatment plan verification <i>K. Holm (Germany), S. Erdem, K. Schubert, J. Krimmer</i>	PO - 1766
Hounsfield units to electron density conversion: inhomogenous phantoms, user experience and RTP dose <i>W. Baus (Germany), G. Altenstein, H. Hermani, C. Moustakis</i>	PO - 1767
TLD verification of dose delivery in VMAT plan <i>A. Embriaco (Italy), P. Martucci, V. De Coste, M. Pimpinella, S. Russo, C. Fiandra, L. Masi, P. De Felice, M. Stasi</i>	PO - 1768
High resolution micro-dosimetry in modern radiation therapy treatment <i>S.B.C. Debnath (France), D. Tonneau, C. Fauquet, A.R. Tallet, M. Ferre, J. Darreon</i>	PO - 1769
Clear RT for Radixact: evaluation of different dose indicators and organ doses for patients. <i>F. Giglioli (Italy), G. Lo Moro, V. Richetto, E. Gallio, O. Rampado</i>	PO - 1770
MRI-Linac patient QA: evaluation of single beam and region of interest specific gamma analysis <i>C. de Almeida Ribeiro (Italy), M. Galetto, M. Nardini, G. Turco, L. Bernabucci, N. Franza, L. Indovina, L. Placidi</i>	PO - 1771

- Action limits for DQA plans using two different gamma analysis software, Halcyon EPID and Omnipro PO - 1772
C.K. Torzsok (Chile), A. Ruiz, M. Ribeiro, F. Marangoni, R. Plata, J.L. Rodriguez, M. Pino, H. Broque
- Characterization of new detectors for FLASH radiotherapy with ultra-high dose rates proton beams PO - 1773
P. Casolaro (Switzerland), G. Dellepiane, A. Gottstein, I. Mateu, P. Scampoli, S. Braccini
- Design and in-silico evaluation of a breast IOERT aligner to prevent OAR irradiation PO - 1774
J. Tarrats Rosell (Spain), C. Cases, M. Garcia-Causapié, G. Trias, G. Oses, A. Herreros, M. Molla
- Workflow optimisation for reproducible printing polymer gel containers in 3D PO - 1775
W. Johnen (Germany), A. Elter, E. Schmuck, A. Runz, G. Echner
- The response of air-filled ionization chambers irradiated by proton beam in magnetic field up to 1 T PO - 1776
I. Blum (Germany), J.S. Wong, K. Godino Padre, H. Fuchs, B. Poppe, H.K. Looe
- Comparison of Diode Array, Radiochromic Film and OSL Film Dosimeters for Patient Specific QA PO - 1777
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- Validation study for multiple mets radiosurgery using RTsafe Encephalon3D gel dosimetry PO - 1778
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- Along-away table with a plastic scintillator detector for in vivo dosimetry in HDR brachytherapy PO - 1779
J. Tarrats-Rosell (Spain), A. Herreros, J. Neves, J. Melo, L. Moutinho
- Uncertainties in the fractionation and optimization of radioembolization with SIR-SPHERES® PO - 1780
V. González (Spain), P.M. Liñan, A. López, A. Montes, C. Escalada
- Monte Carlo simulations and verification of a commercial image guided small animal irradiator PO - 1781
C. Koksai Akbas, A. Spinelli (Italy)
- Dosimetric comparison between gated and ungated SBRT plans using VMAT with FFF beams PO - 1782
T.Y. Nam, Q.C. Chen, M.C. Ng (Hong Kong (SAR) China)
- Framework for out-of-field dosimetry in photon radiotherapy: application to Hodgkin lymphoma PO - 1783
M. Romero-Expósito (Sweden), M. Romero-Expósito, I. Muñoz, I. López-Martínez, I. Espinoza, I. Toma-Dasu, A. Dasu, A. Dasu, D. Molin, B. Sánchez-Nieto
- A study of the impact of the dose per pulse on two different detectors for patient-specific QA PO - 1784
M.A. Benito Bejarano (Spain), F. Gomez Enriquez, F. Saez Beltran
- Dosimetric characteristics of an in-house developed collimator for preclinical minibeam radiotherapy PO - 1785

C. Koksak Akbas, S. Broggi, C. Cozzarini, N. Di Muzio, F. Cavaliere, P. Milani, A. Del Vecchio, C. Fiorino, C. Tacchetti, A. Spinelli (Italy)

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M. van Hinsberg (The Netherlands)

Dose rate dependence study in MyQa SRS and its influence on gamma analysis. PO - 1787

F. Mosquera-Pena Sanchez (Spain), R. Dorado Dorado, J. Vázquez Rodríguez, A. Fernández González, B. Andrade Álvarez, A. Teijeiro García, M. Salgado Fernández

small field electron beams: measurement based validation of the Monte Carlo calculation algorithm. PO - 1788

G. pittomvils (Belgium), E. traneus, F. vanhoutte

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L. Parent (France), P. Zidane

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M. Cinq-Mars (Canada), J. Jutras, L. Beaulieu

3D printed inhomogeneity phantom for radiotherapy commissioning and QA measurements PO - 1791

D. Banjade (Australia), S. How

Simple AP/PA techniques to deliver total skin electron beam therapy to frail patient while recumbent PO - 1792

X. Wang (USA), R. Taylor, T.Y. Lim, B.S. Dabaja, J. Gunther, T. Rougeau, C. Pinnix, P. Fang, S. Wu, C. Wang

Commissioning of radio-photoluminescent dosimeters for postal dosimetry audits PO - 1793

A. Dimitriadis (Austria), G. Ule-Duque, P. Kazantsev, R. Abdulrahim, G. Azangwe, J. Swamidas

Patient QA comparison between three different OCTAVIUS 4D arrays in radiotherapy treatments PO - 1794

C. Velasco Fernandez (Spain), I. Mosquera Cereijo, T. Lusa Agüero, R. Gómez Pardos, J. Bonaque Alandi

Energy-dependence of the Exradin W1 scintillator for low and medium-energy x-ray beams PO - 1795

P. Carrasco de Fez (Spain), N. Jornet Sala, P. Gallego Franco, J. Pérez-Alija Fernández, C. Ansón Marcos, N. García Apellaniz, N. Tejedor Aguilar, M. Barceló Pagès, H. Vivancos Bargalló, F.M. Leo Martínez, A. Domínguez Perea, A. Ruiz Martínez

Evaluation of a novel plastic scintillator dosimeter for in vivo dosimetry in an Elekta Unity Linac. PO - 1796

C. Ferrer (Spain), C. Huertas, D. García, M. Sáez

Track: Physics

Poster (Digital): Dose calculation

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Variations in doses to organs at risk resulting from cone beam CT (CBCT) scans with the patient size <i>A. Abuhaimeed (Saudi Arabia), C. Martin</i>	PO - 1798
Validation of Beam Modeling and Dose Calculation of Proton Beam Therapy for Monaco TPS <i>S. Chen (USA), X. Li, L. Zhao, R. Deraniyagala, W. Zheng, A. Qin, X. Ding</i>	PO - 1799
Dosimetric comparison of VMAT, fixed-field IMRT and HT for prostate plans using the MADD metric <i>N. Suarez Alvarez (Spain), A. Bartrés Salido, V. Pastor i Sanchís, N. Nguyen, V. Vinh-Hung, M. Erzilbengoa</i>	PO - 1800
Monte Carlo Modeling of the Siemens® ARTISTE™ 160 Multi-leaf Collimator for IMRT dose verification <i>M. dayyani (Iran Islamic Republic of), E. Hoseinian-Azghadi, L. Rafat-Motavalli, H. Miri-Hakimabad, T. Tuğrul, L. Sobhkhiz-Sabet</i>	PO - 1801
Deep Particles Embedding: accelerating Monte-Carlo dose simulations <i>S. Martinot (France), N. Komodakis, M. Vakalopoulou, N. Bus, C. Robert, E. Deutsch, N. Paragios</i>	PO - 1802
SBRT treatment of Lung on Varian Halcyon and Clinac radiotherapy systems <i>A.I. Milanes Gaillet (Spain), G. Pozo Rodriguez, P. Adaimi, E. Cabello Murillo, R. Diaz Fuentes, A. Gaitan Simon, M. Manzano Rodriguez, P. Botella, A. Ferrando, D. Rojo Navarrete, I. Alonso Delgado, D. Martin Garcia, V. Trapaga Porrero, R. Rollan Plaza, R. Brazales, A. Ruiz Alonso, J.F. Perez-Regadera</i>	PO - 1803
Carbon ion arc therapy with continuous gantry/patient rotation <i>L. Volz (Germany), L. Blechschmidt, Y. Sheng, M. Durante, C. Graeff</i>	PO - 1804
Clinical impact of moving from type-b to type-c algorithms in lung SBRT treatment planning. <i>G. Reggiori (Italy), L. Dominici, D. Franceschini, A. Bresolin, P. Gallo, F. La Fauci, F. Lobefalo, L. Paganini, P. Mancosu, S. Parabolicoli, M. Pelizzoli, M. Scorsetti, S. Tomatis</i>	PO - 1805
Effects of Reconstruction Methods on Dose Distribution for Lung SBRT Plans <i>Y. Yedekci (Turkey), P. Hurmuz, G. Ozyigit</i>	PO - 1806
Which carbon couch model can better quantify the influence on radiation dose? <i>L. Nesterenko (Denmark), M. Berg, B. Mortensen, J.S. Rasmussen</i>	PO - 1807
Dosimetry of α -emitting radioelements with TILDA-V in the context of targeted radionuclide therapy <i>A. Larouze (France), M.E. Alcocer-Avila, N. Esponda, M.A. Quinto, J.M. Monti, C. Champion</i>	PO - 1808
Treatment plan dose calculation using the novel HyperSight CBCT <i>A. Cherpak (Canada), C. Fallone, R.L. MacDonald, K. Chytk-Przaznik, J.L. Robar</i>	PO - 1809

- Retrospective dosimetric analysis of 3D-printed bolus PO - 1810
B. Dewit (Belgium), T. Depuydt
- Dosimetric variations due to the change of the secondary source modelling in Eclipse version 15.6.6. PO - 1811
S. Honorato Hernandez (Spain), P. Castro Tejero, D. Hernandez Gonzalez, M. Roch Gonzalez, R. Simon de Blas, P. Chamorro Serrano, A.E. Stoica Rosciupchin
- Influence of beam width of cone beam CT (CBCT) scan on effective dose PO - 1812
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- Evaluation of strategies for dose reconstruction from prompt-gamma radiation in proton therapy PO - 1814
B. Foglia (Germany), C. Gianoli, T. Masuda, T. Bortfeld, J. Verburg, K. Parodi, M. Pinto
- CBCT dose distribution calculation with GATE Monte Carlo simulations for lymphoma patients PO - 1815
M. Riveira-Martin (Spain), I. Sánchez-Díaz, R. Dorado Dorado, F.J. Salvador Gomez, B. Andrade Álvarez, M. Salgado Fernández, V. Muñoz Garzón, V. Ochagavía Galilea, I. Nieto Regueira, M. Myronakis, A. López Medina
- Dosimetric verification of a Monte Carlo treatment planning system for MR-guided proton therapy PO - 1816
H. Fuchs (Austria), F. Padilla-Cabal, B. Oborn, E. Traneus, D. Georg
- Feasibility of Xofigo Axxent Electronic IORT for intracranial tumors in terms of radiation dosimetry PO - 1817
S. Can (Turkey), D. Karaçetin, P. Silli, C. Perez, Ö. Atila, İ. Harmankaya
- Hypo-fractionated radiotherapy with SpaceOAR for prostate cancer treated with Radixact TomoTherapy PO - 1818
S. Can (Turkey), D. Karaçetin, H. Tatlı, Ö. Atila, N. Nalbant
- Dose-to-medium and dose-to-water in photon radiotherapy dose calculations PO - 1819
M. Ghazal (Sweden), H. Benmakhlouf
- Feasibility of in vivo diffusion weighted imaging on a 0.35 T MRI-guided linear accelerator PO - 1820
J. Weygand (USA), T. Armstrong, J. Bryant, J. Andreozzi, I.M. Oraiqat, C.L. Liveringhouse, K. Latifi, K. Yamoah, J.R. Costello, E.G. Moros, I.M. El Naqa, A.O. Naghavi, S.A. Rosenberg, G. Redler
- Neutron contribution in pediatric proton therapy and field angle dependence PO - 1821
J. Tjeltnes (Norway), K.S. Ytre-Hauge, F.S. Engbrecht, K. Parodi, G. Dedes, E. Lyngholm, A. H. Handeland, H. Henjum, C.H. Stokkevåg, C.H. Stokkevåg
- The effect of field size on neutron dose equivalent around the target in proton beams PO - 1822
M. Romero-Expósito (Sweden), M. Romero-Expósito, A. Dasu
- Evaluation of heterogeneity dose calculation in Monaco TPS with Monte Carlo algorithm. PO - 1823
I. Mosquera Cereijo (Spain), C. Velasco Fernández, T. Lusa Agüero, R. Gómez Pardos
- Intraoperative kilovoltage dose reduction after placing a hemostatic patch: dosimetric analysis PO - 1824

G.R. Sarria (Germany), M. Grimmer, P. Eich, J.A. Holz, F. Roehner, L.C. Schmeel, S. Garbe

PRIMO Monte Carlo software as a tool for commissioning of a treatment planning system PO - 1825

J. Calvo-Ortega (Spain), M. Hermida-López

Dosimetric verification of small field SBRT plans using a new enhanced leaf model for VarianTruebeam PO - 1826

M. Oellers (The Netherlands), A. Swinnen, F. Verhaegen

The effect of PTV density on the quality of lung plans in a 1.5 T magnetic field PO - 1827

F. Brewster (United Kingdom), J. Doherty, L. Freear, R. Chuter

Evaluation of a new AI-based sCT generator for MR-only radiotherapy workflows PO - 1828

A. Roussel, S. Dufreneix, A. Cannard, T. Roque, K. Shreshtha, N. Paragios, C. Guillerminet, D. Autret (France)

A computational framework for assessment of dose to lymphocytes in external radiotherapy treatments PO - 1829

I. Lopez-Martinez (Chile), I. Espinoza, I. Muñoz-Hernandez, P. Muñoz-Schuffenegger, B. Sánchez-Nieto

Choosing the regularization parameter during the reconstruction of the energy spectrum for IOERT PO - 1830

T. Piotrowski (Poland), A. Ryczkowski, P. Adrich

Heterogeneously Hypo-fractionated RT for LA-NSCLC (the HERAN trial): Clinical treatment plan results PO - 1831

L. Hoffmann (Denmark), A. Appelt, M.M. Knap, D.S. Møller, T.S. Hansen, C. Christiansen, M.D. Lund, M. Nielsen, T.B. Nielsen, T. Schytte, R. Thing, A.A. Khalil

Small fields with Varian Halcyon: Monte Carlo and measurements PO - 1832

L. Laakkonen (Finland), J. Lehtomäki, A. Harju, A. Kulmala

Track: Physics

Poster (Digital): New technologies

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Poster Stations

Study of radial waveguide design for a compact dielectric wall accelerator PO - 1833

M. Maher (Canada), C.M. Lund, J. Bancheri, D.G. Cooke, J. Seuntjens

Conventional and minibeam LIGHT proton linac for conformal FLASH treatment of brain metastases PO - 1834

A.M. Kolano (Switzerland), T. Gray, C. Liu, P. Xia, J.B. Farr

Scanning Mode Parameters to Improve Image Fidelity on an Ultrafast Ring-Gantry Linac kVCBCT System PO - 1835

A. Haertter (USA), B. Koger, M. Salerno, C. Kennedy, B.K. Teo, M. Alonso-Basanta, L. Dong, T. Li

Evaluation of the performance of Brainlab Exactrac Dynamic under different operation conditions PO - 1836

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- Predictive factors of survival and relapse in SBRT of liver metastases PO - 1837
C. De La Pinta (Spain), J.D. García, D. Sevillano, A. López, J. Nuño, R. Peromingo, M.R. Ferreiro, R. Fuentes, C. Guillén, I. Martínez, P. Reguera, M. Rodríguez, J. Cobos, A. Olavarria, A. Palomera, R. Romera, J.A. Rojo, A. De Cozar, L.C. Perna, A. Albillos, S. Sancho
- Characterization of a ultra-high dose rate proton beam for preclinical experiments. PO - 1838
M. Schwarz (USA), J. Saini, F. Vander Stappen, L. Palmer, J. Zeng
- Radon-transformation and filtered back-projection - a way to fast Ad-hoc VMAT-adaptation? PO - 1839
K. Bratengeier (Germany), K. Kirschbaum, B. Hahn, P. Paulus
- Implementation of rotational total skin electron therapy with an in-house-built flattening filter PO - 1840
L. Marrazzo (Italy), D. Chilà, G. Simontacchi, M. Casati, M. Zani, C. Arilli, A. Compagnucci, C. Talamonti, L. Livi, S. Pallotta
- Accelerating dose deliveries on the Unity MR-linac with an improved dynamic MLC controller PO - 1841
P. Borman (The Netherlands), P. Woodhead, P. Uijtewaal, B. Raaymakers, M. Fast
- Personalized quantification of energy deposition during photobiomodulation treatments PO - 1842
P. Maury (France), Y. Boualga, C. Billard-Sandu, R. Bensadoun, E. Deutsch, C. Robert, C. Robert
- Design of an X-ray irradiator with FLASH dose-rate capabilities for preclinical research PO - 1843
P. Ibanez (Spain), A. Espinosa-Rodríguez, A. Villa-Abaunza, D. Sánchez-Parcerisa, N. Díaz, J.M. Udías
- Optimization of metal collimators for proton minibeam radiation therapy (pMBRT) PO - 1844
F. Reaz (Denmark), M. Krzysztof Sitarz, E. Traneus, N. Bassler
- Investigating the use of Microsoft KinectV2 to monitor a patient's breathing during Lung SBRT PO - 1845
G. Anastasi (United Kingdom), P. Evans, E. Adams, C. Clark, K. Wells, A. Nisbet, V. Ezhil
- Characterization of a Novel High Performance kV CBCT System on a Ring-Gantry Linac PO - 1846
M. Salerno (USA), A. Haertter, B. Koger, C. Kennedy, B.K. Teo, M. Alonso-Basanta, L. Dong, T. Li
- Longitudinal stability in the dielectric wall accelerator through time-varying accelerating fields PO - 1847
C. Lund (Canada), P.M. Jung, M.J. Maher, J. Bancheri, T. Planche, R. Baartman, J. Seuntjens
- Towards clinical application: Potential margin reduction in proton therapy with prompt-gamma imaging PO - 1848
S. Bertschi (Germany), J. Berthold, J. Pietsch, J. Smeets, G. Janssens, K. Stützer, C. Richter
- PSQA of Stereotactic Partial Breast Irradiations with GammaPod: initial experience at Udine Hospital PO - 1849
E. Moretti (Italy), P. Scalchi, D. Marfisi, V. Gagliardi, M. Guernieri, M. Trovo', C. Reverberi, A. Prisco

Examining the FLASH effect by performing radiobiological Monte Carlo simulations with TOPAS-nBio	PO - 1850
<i>L. Derksen (Germany), V. Flatten, R. Engenhardt-Cabillic, K. Zink, K. Baumann</i>	
Radiobiological optimization and robustness evaluation for radiotherapy combined with hyperthermia	PO - 1851
<i>T.D. Herrera (The Netherlands), J. Ödén, H.P. Kok, J. Crezee</i>	
Novel Multi Jet Fusion 3D Printed Immobilizers Allowing Significant Reduction of Skin Dose	PO - 1852
<i>J. Robar (Canada), B. Kammerzell, K. Hulick, P. Kaiser, C. Young, V. Verzwylt, X. Cheng, M. Shepherd, R. Orbovic, S. Fedullo, C. Majcher, S. DiMarco, J. Stasiak</i>	
Image-guided IORT after surgical resection of brain malignancies: a feasibility study	PO - 1853
<i>G.R. Sarria (Germany), M. Grimmer, M. Hamed, M. Banat, D. Koch, H. Lorenzana, M. Fiebich, J.A. Holz, C. Schmeel, A. Kowark, L.C. Schmeel, S. Garbe</i>	
Dose escalation with integrated boost using high-field MR-LINAC in prostate cancer patients.	PO - 1854
<i>C. Onal (Turkey), G. Arslan, C. Yavas, E. Efe, G. Yavas</i>	
Patients with cardiac implantable electronic devices: A Patterns of Care Survey for low-field MRgRT.	PO - 1855
<i>M. Schrader (Switzerland), H. Garcia Schüler, A. Kishan, B. Atalar, L. Boldrini, S. Ehrbar, H. Igaki, J. Leeman, R. Mak, E. Mellon, I. Nilo, H. Nagar, A. Pedersen, E. Ozyar, P. Parikh, J. Dolan, S. Perryck, L. Placidi, M. Steinberg, M. Marchesano, P. Maingon, S. Tanadini-Lang, L. Wilke, N. Andratschke</i>	
Implementation of the DirectDensity CT reconstruction kernel for radiotherapy planning	PO - 1856
<i>R. Tulip (United Kingdom), S. Manolopoulos, N. Richmond, C. Walker</i>	

Track: Physics

Poster (Digital): Intra-fraction motion management and real-time adaptive radiotherapy

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Impact of intra-fraction margin reduction for online adaptive bladder radiotherapy	PO - 1857
<i>H. Stankiewicz, A. Mitchell, R. Huddart, M. Ingle, S. Nill, U. Oelfke, A. Dunlop, S. Hafeez (United Kingdom)</i>	
Dosimetric and volumetric effects of end expiration breath hold radiotherapy for oesophageal cancer	PO - 1858
<i>C. Mayhew (United Kingdom), J. Venkatasai, M. Khan, B. Leung, K. Owczarczyk, G. Ntents</i>	
Real-time prostate and lymph node dose reconstruction accounting for independent 6DoF target motions	PO - 1859
<i>K. Klucznik (Denmark), T. Ravkilde, S. Simon Skouboe, D. Møller, S. Hokland, P. Keall, S. Buus, L. Bentzen, P. Poulsen</i>	
Individual monitoring of dosimetric changes in head and neck adaptive proton therapy	PO - 1860
<i>A. Turkaj (Italy), B. Siniscalchi, I. Giacomelli, M. Bertolini, M. Lipparini, L. Pomino, A. Trianni, P. Farace, M. Cianchetti</i>	
The effect of different optimization function templates on daily online adaptive proton planning	PO - 1861
<i>S. Kaushik (Sweden), I. Toma Dasu, A. Fredriksson, J. Oden</i>	

- Tracking irregular breathing with pencil beam proton therapy PO - 1862
A.C. Giovannelli (Switzerland), S. Safai, D. Meer, D.C. Weber, A.J. Lomax, G. Fattori
- Full course 4D IMPT dose assessments for thoracic targets with large motion PO - 1863
S. Visser (The Netherlands), E.W. Korevaar, R. Wijsman, C.T. Muijs, J.A. Langendijk, P. Pisciotto, G. Gutteres Marmitt, C. O.Ribeiro, S. Both
- Prospective study of 'plan of the day' strategy in radical RT of cervical cancer PO - 1864
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- Benefit of daily online cbct-based adaptive radiotherapy in prostate cancer: a preliminary analysis. PO - 1865
A. D'Aviero (Italy), M. Aquilano, A. Boschetti, F. Catucci, P. Gaias, F. Gruosso, M. Iezzi, M. Marras, S. Menna, D. Piccari, E. Pilloni, D. Piro, F. Preziosi, F. Quaranta, A. Re, V. Verusio, C. Votta, V. Valentini, D. Cusumano, G.C. Mattiucci
- Dose adaptive radiotherapy: Compensating for target motion without PTV margins PO - 1866
E. van der Bijl (The Netherlands), J. Sonke, P. Remeijer, U. van der Heide, T. Janssen
- Online adaption in short-course radiotherapy reduce bowel irradiation PO - 1867
J.A. Hundvin (Norway), U.H. Lilleøren, J.A. Brennsæter, K. Lewinsen, S. Pilskog
- Quantifying movement of optical structures during radiotherapy treatment PO - 1868
D. Hofstede (The Netherlands), F. Vaassen, C.M. Zegers, N. Birimac, I. Compter, W. van Elmpt, D.B. Eekers
- Synthetic 4DCT generation from 4DMRI of the abdominal site in Carbon Ion Radiotherapy PO - 1869
A. Nakas (Italy), M. Hladchuk, G. Parrella, A. Vai, S. Molinelli, M. Ciocca, A. Pella, A. Barcellini, V. Vitolo, S. Imparato, E. Orlandi, G. Baroni, C. Paganelli
- Detailed analysis of patient stability during spine SBRT without immobilization PO - 1870
I. Remmerts de Vries (The Netherlands), W. Verbakel, M. Dahele, B. Slotman
- Surface-guidance effectiveness in intracranial treatments with a closed immobilization mask PO - 1871
A. Gutierrez (Belgium), K. Van Santvoort, T. Gevaert, M. Boussaer, T. Everaert, M. De Ridder
- Assessment of setup errors and internal motion for rectal cancer using MR-guided radiotherapy PO - 1872
T. Everaert (Belgium), A. Gutierrez Ruiz, R. Atef Kamel, J. Bodenst Bezuidenhout, J. Smeulders, T. Gevaert, M. De Ridder
- Deformation of co-irradiated lymph nodes in AI-based online adaptive radiotherapy of bladder cancer PO - 1873
K.M. Gullitsø (Denmark), T.L. Tofte, L.F. Möller Åström, A. Nielsen
- The right hemidiaphragm top is an accurate tracking surrogate for abdominal organ motion PO - 1874
J. Veldman (The Netherlands), Z. van Kesteren, E. Gunwhy, M. Parkes, M. Stevens, J. van den Aardweg, G. van Tienhoven, A. Bel, I. van Dijk
- Additional position corrections after CBCT imaging on a 6 DoF couch for SBRT lung patients PO - 1875

T. Seppälä (Finland), A. Valve, A. Anttonen

Deep learning-based metal artifact reduction in CT scans for US-based cardiac motion management PO - 1876

S. Puvasuntharajah (Australia), D. Fontanarosa, M. Wille, S. Camps

Effect of daily replanning for MR-Linac prostate patients treatment using an adapt-to-shape workflow PO - 1877

D. Page (United Kingdom), A. Choudhury, T. Janssen, M. Nowee, D. Vesprini, B. Keller, S. Hafeez, A. Tree, L. Verkooijen, J. van der Voort, C. van den Berg, M. van Herk, R. Chuter, A. McWilliam

The effect of Monte Carlo uncertainty in daily online plan adaptation PO - 1878

T. Jagt (The Netherlands), T. Janssen, J. Sonke

Correlation of adaptive MLC changes and predictions based on Radon-projections of dose distributions PO - 1879

P. Kessler (Germany), P. Käthner, K. Kirschbaum, K. Bratengeier

Real-time and online adaptive particle therapy in 10 years: a Delphi consensus analysis PO - 1880

P. Trnkova (Austria), Y. Zhang, T. Toshito, B. Heijmen, C. Richter, M. Aznar, F. Albertini, A. Bolsi, J. Daartz, A. Knopf, J. Bertholet

Analysis of the Interplay Effect in Lung SABR Based on Breathing Motion and Plan Characteristics. PO - 1881

A. ALI (United Kingdom), J. Greenwood, M. Varasteh, S. Esteve, P. Jeevanandam, F. Göpfert, D. Irvine, A. Hounsell, C. McGarry

Dosimetric impact of intrafraction motion for prostate SBRT with dose escalation on the index-tumor PO - 1882

M. Biston (France), F. Di Franco, A. Serre, T. Baudier, O. Rouviere, V. Isnardi, P. Pommier

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T. Gevaert (Belgium), M. Boussaer, C. Teixeira, T. Everaert, A. Gutiérrez, A. Bom, J. Smeulders, P. Freislederer, K. Berlinger, M. De Ridder

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T. Gevaert (Belgium), C. Teixeira, J. Ketelaers, A. Gutiérrez, M. Boussaer, A. Bom, J. Smeulders, T. Mulliez, M. De Ridder

GPS-based intrafraction prostate motion monitoring and management during prostate cancer SBRT PO - 1885

S. Slimani, G. Guibert, B. Yanes, T. Risse, N. Guisolan, J. Trouillot, J. Abel, P. Weber, B. De Bari (Switzerland)

Respiratory motion prediction based on LSTM and linear regression models PO - 1886

L. Wimmert (Germany), M. Nielsen, T. Gauer, C. Hofmann, R. Werner

Gating strategy selection for patients with apical lung lesions in MRgRT SBRT PO - 1887

M. Galetto (Italy), M. Nardini, A. Capotosti, L. Boldrini, G. Chiloiro, A. Romano, C. Votta, L. Indovina, L. Placidi

Is beam gating needed for MR-guided SBRT of adrenal gland metastases? PO - 1888

U. Bernchou (Denmark), A. Bertelsen, T. Schytte, C. Brink, F. Mahmood

- Feasibility of markerless lung tumor tracking on radiographs with Retina U-Net PO - 1889
L. Huang (Germany), C. Kurz, P. Freisleder, F. Manapov, S. Corradini, M. Niyazi, C. Belka, G. Landry, M. Riboldi
- Dosimetric impact of setup and geometric uncertainties for free-breathing lung photon radiotherapy PO - 1890
N. Olofsson (Sweden), K. Wikström, A. Flejmer, A. Ahnesjö, A. Dasu
- Dosimetric impact of intrafraction motion and interfraction changes in dose-escalated prostate SBRT PO - 1891
D. Panizza (Italy), V. Faccenda, M.C. Daniotti, S. Trivellato, P. Caricato, R. Lucchini, S. Arcangeli, E. De Ponti
- Surface-guided imaging with ExacTrac Dynamic System PO - 1892
E.Y. Han (USA), D.J. Rhee, S. Krafft, T. Briere
- Gated dynamic trajectory radiotherapy: feasibility, mechanical accuracy and dosimetric validation PO - 1893
H.A. Loebner (Switzerland), D. Frauchiger, D. Terribilini, S. Mueller, G. Guyer, P. Mackeprang, M.F.M. Stamparoni, M.K. Fix, P. Manser, J. Bertholet
- Ultrasound is preferable to MRI as imaging modality during high frequency mechanical ventilation PO - 1894
J. Veldman (The Netherlands), Z. van Kesteren, M. Parkes, M. Stevens, J. van Schuppen, J. van den Aardweg, G. van Tienhoven, A. Bel, I. van Dijk
- The impact of 10MV FFF beams on delivery time for phase gated SBRT lung radiotherapy PO - 1895
R. Panagi (United Kingdom), A. Willett, R. Stansbridge
- Dosimetric impact of tumour rotation in real-time adaptive liver stereotactic body radiation therapy PO - 1896
C. Sengupta (Australia), D. Nguyen, T. Moodie, S. Skouboe, T. Ravkilde, P. Poulsen, R. O'Brien, J. Booth, T. Wang, Y. Lee, P. Keall
- Dosimetric impact of cardiac motions for CyberKnife stereotactic arrhythmia radioablation PO - 1897
J. Bellec (France), L. Lemaire, L. Rigal, R. Martins, R. De Crevoisier, A. Simon
- Intra-fraction motion until, and during, beam on for MR guided adaptive prostate treatments PO - 1898
D. Tilly (Sweden), S. Fransson, M. Lundmark, U. Isacson, A. Johansson, N. Tilly, P. Witt Nyström
- Intra-fraction variation of volume and position of stomach, gastric gas and gastric contents on MRI PO - 1899
J. Kucharczak (United Kingdom), C. Eccles, A. Choudhury, M. Daly
- Is the PTV redundant in high dose MR-guided and beam-gated SBRT of liver metastases? PO - 1900
I. Wahlstedt (Denmark), E. van der Bijl, K. Boye, S. Ehrbar, M. van Overeem Felter, T.M. Janssen, S.L. Risumlund, J.E. van Timmeren, I.R. Vogelius, C.P. Behrens
- Comparing LSTM networks for real-time target segmentation prediction on low-field MR-linacs PO - 1901
E. Lombardo (Germany), M. Rabe, Y. Xiong, L. Nierer, D. Cusumano, L. Placidi, L. Boldrini, S. Corradini, M. Niyazi, M. Reiner, C. Belka, C. Kurz, M. Riboldi, G. Landry

Stereoscopic radiographic IGRT and thermo-optical SGRT for DIBH breast radiotherapy <i>M. Buschmann (Austria), D. Kauer-Dorner, S. Konrad, D. Georg, J. Widder, B. Knäusl</i>	PO - 1902
Intra-fractional target shift during stereotactic treatment of peripheral lung lesions <i>T.B. Nyeng (Denmark), S.N. Thomsen, D.S. Møller, R. Hansen, A.A. Khalil, L. Hoffmann</i>	PO - 1903
Feasibility of clipless liver SABR: a new clinical online adaptive solution <i>J. Pierrard (Belgium), S. Deheneffe, D. Dechambre, E. Sterpin, T. Morgas, X. Geets, G. Van Ooteghem</i>	PO - 1904
Towards tumor tracking by using deep learning to correlate lung contour deformation feature and skin <i>J. Zhang (China), Y. Wang</i>	PO - 1905
Dosimetric evaluation of an online adaptive strategy for prostate SBRT (PACE-B) <i>J. Calvo-Ortega (Spain), C. Laosa-Bello, S. Moragues-Femenía, J. Torices-Caballero</i>	PO - 1906
comparison of dosimetric error due to the tumor motion between TomoTherapy and LINAC-based VMAT <i>J. Song (Korea Republic of)</i>	PO - 1907

Track: Physics

Poster (Digital): Inter-fraction motion management and offline adaptive radiotherapy

-	Poster Stations
Simulation of dose with reduction of tissue in breast radiotherapy <i>M. Kjeldsen (Denmark), M. Berg, H. Nissen, E. Maae</i>	PO - 1908
Clinical evaluation of Exactrac Dynamic surface guided pre-positioning system for cranial treatments <i>J. Alonso Muriedas (Spain), R. Fabregat Borrás, R. Astudillo Olalla, M. Gutiérrez Ruiz, F. Gómez Enriquez, D. Bruzos López, S. Ruiz Arrebola, G. Camacho de la Vega, A. Reguilón Martín, V. Cañón García, M. Ferri Molina, A.L. Rivero Pérez, J. Albendea Roch, F. Pinto Guevara, M. García Lamela</i>	PO - 1909
Target-driven initial optimization planning for simulation-free, stereotactic abdominal adaptive RT <i>A. Price (USA), E. Laugeman, J. Schiff, P. Samson, G. Hugo, T. Zhao, L. Henke</i>	PO - 1910
Predicting organ motion in cervix radiotherapy: unlocking the secrets of the planning scan <i>L. Wang (United Kingdom), D. McQuaid, S. Mason, M. Blackledge, H. McNair, E. Harris, S. Lalondrelle</i>	PO - 1911
Liver deformability as residual error in stereotactic radiotherapy of hepatic metastases <i>V. Panni (Italy), E. Galofaro, C. Di Carlo, M.V. Agbaje Olufemi, F. Fenu, L. Vicenzi, L. Alticozzi, F. Cucciarelli, M. Valenti, G. Mantello</i>	PO - 1912
Development and test of a patient immobilization and rotation device for imaging and radiotherapy <i>G. Echner (Germany), F. Dinkel, C. Beyer, O. Jäkel</i>	PO - 1913
Surface Guided Helical Tomotherapy for Total Marrow Irradiation <i>H. Enocson (Sweden), S. Ceberg, P. Engström, M. Kügele, J. Engellau, A. Haraldsson</i>	PO - 1914
Larynx treatment: dose reduction in the carotids and plan robustness	PO - 1915

H. Vivancos (Spain), N. Jornet, J. Perez-Alija, C. Anson, P. Gallego, M. Barcelo, N. Tejedor, A. Dominguez, N. Garcia-Apellaniz, F. Leo, A. Ruiz-Martinez, P. Carrasco de Fez

Parameters influencing plan adaptation in particle therapy are non-dosimetrical? PO - 1916

A. Vai (Italy), E.L. Chilug, S. Molinelli, A. Barcellini, G. Magro, A. Bazani, A. Mirandola, E. Rossi, S. Russo, L. Trombetta, B. Vischioni, E. Orlandi, M. Ciocca

Stability assessment of patient-specific 4DCT and 4DCBCT correspondence models PO - 1917

L. Büttgen (Germany), L. Wimmert, F. Madesta, R. Werner, T. Gauer

Comparison of total replanning and fast template-based planning for online adaptive radiotherapy PO - 1918

B. Tengler (Germany), L.A. Künzel, D. Zips, C. Gani, S. Böke, D. Wegener, D. Thorwarth

SBRT for central lung lesions: large biological delivered dose deviations for the bronchi PO - 1919

E. Lindbäck (Sweden), K. Al Jirf, L. Hoffmann, D. Sloth Møller, K. Karlsson, S. Nyberg Thomsen, K. Lindberg, A. Ahmed Khalil, J. Uzan, E. Onjukka

Serial exit dose fluence analysis to detect volume change and implication in adaptive radiotherapy PO - 1920

A. Tiwari (India), V. Pandey, V. Kharade, R. Pasricha, M. Gupta, S. Das

Evaluation of PTV margins for CBCT-based prostate adaptive radiotherapy PO - 1921

F. Dupont (Belgium), D. Dechambre, E. Sterpin

Transit dosimetry analysis along lung cancer radiotherapy treatments for different treatment regimes PO - 1922

A. Seoane (Spain), F. Sansaloni, A. Campos, A. Varó

Quantification of pelvic rotations of gynecological cancer patients positioned with surface imaging PO - 1923

M. Bolin (Sweden), M. Falk, M. Hedman, G. Gagliardi, E. Onjukka

Robust evaluation of proton therapy within a randomized clinical trial for high-risk prostate cancer PO - 1924

S. Tilbaek (Denmark), S. Petersen, A. Vestergaard, L. Stolarczyk, H.S. Rønde, T. Johansen, L. Bentzen, J. Søndergaard, M. Høyer, L. Muren

The extra- and intra-fraction stability of the new Vantage stereotactic system used in Gamma Knife PO - 1925

H. Benmakhlouf (Sweden), M. Fager, A. Samadi, M. Gubanski, M. Ghazal

Multicriteria dose-guided patient positioning correction using iso-center shifts and couch angles PO - 1926

P. Süß (Germany), M. Heidgen, H. Krieg, K. Teichert, Y. Zhang, J. Qin, N.J. Yue, K. Nie, S. Jabbour, M. Deek, S. Kim

Evaluation of inter-fractional lung tumor position reproducibility with vector volume histogram PO - 1927

H. Miura (Japan), S. Ozawa, M. Nakao, Y. Doi, M. Kenjo, Y. Nagata

Feasibility study of the Transit-Guided Radiation Therapy technique: an interim analysis PO - 1928

A. Latorre-Musoll (Spain), M. Marín de Castro, S. Serrano, G. Antelo, G. Oses, M. Mollà

A novel parameter to evaluate the dosimetric impact of Gastro-Intestinal gas pockets during MRgRT PO - 1929

M. Nardini (Italy), M. Galetto, A. Capotosti, L. Boldrini, G. Chiloio, A. Romano, A. Bevacqua, G. Turco, R. Moretti, L. Indovina, L. Placidi

The potential benefit of adaptive MR-Linac radiotherapy over proton and photon for rectal cancer PO - 1930

A. Christou (Sweden), D. Tilly, N. Tilly

Effect of tissue density variation on adaptive radiation treatment planning PO - 1931

D. Szegedi (Hungary), Á. Gáldi, T. Major, C. Pesznyák

Rectal tumour position variation: Systematic and random variations by point-based surface evaluation PO - 1932

D.T. Arp (Denmark), A.L. Appelt, M.S. Nielsen, R. Mikalone, L.Ø. Poulsen

Accuracy of adaptive radiation therapy with kVCT in tomotherapy: evaluation in a phantom study PO - 1933

M. Tanooka (Japan), W. Okada, K. Sano, K. Nakamura, Y. Sakai, M. Shibata, T. Shintani

Deep learning for accuracy prediction of deformably registered contours in prostate radiotherapy PO - 1934

P.L. Yeap (Singapore), Y.M. Wong, A.L.K. Ong, J.K.L. Tuan, E.P.P. Pang, S.Y. Park, J.C.L. Lee, H.Q. Tan

Clinical experience with robust VMAT optimization for breast and lymph node radiotherapy PO - 1935

C. Papalazarou (The Netherlands), K. Crama, R. van der Slot, A. van Eijk, E. van Reij, M. Immink, E. Astreinidou

Contour propagation and uncertainty estimation using deep learning in head and neck treatments PO - 1936

L. Rivetti (Slovenia), A. Studen, M. Sharma, J. Chan, R. Jeraj

Planning target margins for CBCT guided radiotherapy of the breast/thoracic wall and lymph nodes PO - 1937

M. Falk (Sweden), M. Hedman, M. Bolin, J. Falk, K. Karlsson, E. Onjukka, B. Sorcini, G. Gagliardi

Organ motion in thorax and abdomen during radiotherapy: a multicenter study in 188 children PO - 1938

K. Meijer (The Netherlands), I. van Dijk, M. Frank, A. van den Hoek, B. Balgobind, G. Janssens, M. Wendling, J. Maduro, A. Bryce-Atkinson, A. Loginova, A. Bel

PBS proton therapy for neuroblastoma: dosimetric robustness to bowel gas variation PO - 1939

A. Toltz (United Kingdom), S.J. Court, V. Rompokos, J. Gains, M. Gaze, Y. Chang, P. Lim

Online adaptive CBCT-guided VMAT radiotherapy using an Elekta Synergy CBCT-linac PO - 1940

M. Groot Koerkamp (The Netherlands), G. Bol, P. Kroon, A. Scheeren, A. Zoetelief, L. Krikke, T. Harderwijk, A. Plat, S. van der Vegt, J. Hes, I. van Gasteren, G. Schimmel-de Kogel, E. Renders, J. van Kaam, R. Onnink-Vijfvinkel, D. Winkel, M. van Rijsse, A. Wopereis, J. Noteboom, S. van de Pol, W. Eppinga, J. van der Voort van Zyp, C. van Es, J. Bossenga, B. Raaymakers

Feasibility of a focal boost in MRI-guided online adaptive SBRT for locally advanced prostate cancer PO - 1941

M. Dassen (The Netherlands), A. Betgen, P. De Ruiter, J. Van Der Linden, L. Wiersema, B. Neijndorff, T. Janssen, L. Abbenhuis, P. Van Kollenburg, C. Reijnen, L. Kerkmeijer, F. Pos, U. Van Der Heide, E. Brunenberg

QA of deep learning-based synthetic CTs for adaptive proton therapy using uncertainty estimation PO - 1942

A.J. Galapon (The Netherlands), A. Thummerer, D. Wagenaar, M. Steiu, J. Langendijk, S. Both

Track: Physics

Poster (Digital): Optimisation, algorithms and applications for ion beam treatment planning

-	Poster Stations
A comparison of proton and photon radiotherapy for treatment of malignant pleural mesothelioma <u>D. Lines (United Kingdom), K. Durno, F. Charlwood, P. Shaw, N. Lalli, V. Rompokos, C. Hiley</u>	PO - 1943
Investigation of a new type of objection functions for smoothing of LETdxDose <u>M. Schubert (Germany)</u>	PO - 1944
Balancing Robustness and Adaptation for Proton Therapy of Lung Cancer Patients <u>V. Badiu (Belgium), V.T. Taasti, W. van Elmpt, E. Sterpin</u>	PO - 1945
Measurement of LET distributions by CR-39 for a carbon ion beam in the microporous structure <u>J. Zhao (China), S. Yang, B. Chen</u>	PO - 1946
LET-based optimisation to minimise normal tissue complication probability in paediatric ependymomas <u>A.H. Handeland (Norway), D.J. Indelicato, H. Henjum, K.S. Ytre-Hauge, L.F. Fjæra, H.E.S. Pettersen, J. Tjelta, E. Lyngholm, L.P. Muren, Y. Lassen-Ramshad, C.H. Stokkevåg</u>	PO - 1947
Robust LET optimization of proton arcs can substantially reduce high LET in critical structures <u>L. Glimelius (Sweden), O. Marthin, V. Wase, J. Sundström, E. Engwall, A. Fredriksson, H. Melbéus, F. Tamm, B. Andersson, J. Öden, R. Bokrantz</u>	PO - 1948
Optimal use of limited proton resources for liver cancer patients <u>L. Marc (Switzerland), J. Unkelbach</u>	PO - 1949
Combined proton-photon radiotherapy for prostate cancer using a horizontal fixed proton beamline <u>L. Marc (Switzerland), K.P. Subedi, G. Candinas, S. Fabiano, A.J. Lomax, J. Unkelbach</u>	PO - 1950
A Deep Learning multi-channel approach to abdominal synthetic CT for Carbon Ion Radiotherapy <u>G. Parrella (Italy), A. Vai, A. Nakas, N. Garau, G. Meschini, S. Molinelli, A. Barcellini, A. Pella, M. Ciocca, V. Vitolo, E. Orlandi, C. Paganelli, G. Baroni</u>	PO - 1951
Impact of Uncertainties in Robust Optimization for Head and Neck Intensity Modulated Proton Therapy <u>N. Dogan (USA), K. Padgett, M. Butkus, Y. Xu</u>	PO - 1952
Aperture-based IMPT as an alternative to Gamma Knife in the treatment of multiple brain metastases <u>T. Gray (USA), A. Kolano, J. Farr, C. Liu, J. Donaghue, J. Suh, P. Xia</u>	PO - 1953

- Estimating the RBE of carbon ion therapy by common models using measurable microdosimetric inputs PO - 1954
S. Hartzell (USA), F. Guan, P. Taylor, C. Peterson, S. Kry
- PBS proton arc therapy may improve focal boosting compared to VMAT for localised prostate SBRT PO - 1955
R. De Roover (Belgium), C. Draulans, K. Poels, E. Engwall, V. Wase, O. Marthin, J. Sundström, S. Isebaert, U. van der Heide, T. Depuydt, K. Haustermans
- Normal Tissue Control Probability evaluation of photon versus proton therapy for left breast cancer PO - 1956
C. Giandini (Italy), A. Cavallo, A. Bazani, S. Russo, R.R. Colciago, L.R. Eliana, T. Rancati, E. Pignoli, T. Giandini, A. Barcellini, M. Ciocca, L. Lozza, R. Valdagni, B.A. Jerezek-Fossa, B.A. Jerezek-Fossa, E. Orlandi, M.C. De Santis
- Anatomical robustness of a proton planning class solution for high-risk prostate cancer PO - 1957
E. Visser (Denmark), S. Petersen, S. Tilbæk, L. Bentzen, H. Rønde, L. Stolarczyk, A. Vestergaard, T. Johansen, R. Klitgaard, S. Pilskog, J. Søndergaard, M. Høyer, L. Muren
- Cochlear-optimized plan comparison between protons vs. photon radiosurgery for vestibular schwannoma PO - 1958
K.S. Koetsier (The Netherlands), M. Oud, E. de Klerck, E.F. Hensen, M. van Vulpen, A. van Linge, C. Slagter, S. Habraken, M.S. Hoogeman, A. Méndez Romero
- Dosimetric benefits of proton therapy over (non)-coplanar photon radiotherapy in pituitary adenoma PO - 1959
M. Nogarede (The Netherlands), A. Swinnen, E. Decabooter, R. Emmah, L. Verheesen, H. Beurskens, D. Hartgerink, L. in 't Ven, R. Houben, E. Roelofs, D.B. Eekers, I. Compter
- A novel approach to nano- and microdosimetric simulations for proton therapy PO - 1960
K. Ytre-Hauge (Norway), E. Folkedal, C. Stokkevåg, H. Henjum, E. Lyngholm, A. Tefre Samnøy
- Linear Energy Transfer Distributions for Pencil Beam Scanning of Pediatric Brain Tumors PO - 1961
P. Laegdsmand (Denmark), A. Vestergaard, L. Muren, Y. Lassen-Ramshad, L. Toussaint
- Respiratory gated proton therapy for liver cancer: Setup accuracy and respiratory motion variability PO - 1962
E. Worm (Denmark), S. Nankali, J.B. Thomsen, L. Stick, M. Høyer, B. Weber, H.R. Mortensen, P.R. Poulsen
- Arc proton therapy for esophageal cancer: feasibility and first plan comparison with IMPT PO - 1963
M. Chocan (Belgium), H. Ozan, A.C. Wera, S. Wuyckens, E. Engwall, V. Wase, O. Marthin, J. Sundström, A. Barragan, J.A. Lee, E. Sterpin
- Towards a novel treatment plan evaluation concept in carbon ion radiotherapy based on high-LET-dose PO - 1964
M. Schafasand (Austria), A.F. Resch, E. Traneus, L. Glimelius, A. Nachankar, M. Stock, A. Carlino, J. Gora, D. Georg, P. Fossati
- Efficient delivery of discrete proton arcs using a beam-partitioning approach over fractions PO - 1965
E. Engwall (Sweden), O. Marthin, V. Wase, J. Sundström, L. Glimelius, A. Fredriksson, H. Melbæus, V. Mikhalev, B. Andersson, R. Bokrantz
- Isotoxic dose escalation with proton beam therapy for distal oesophageal cancer PO - 1966
M. Esien (United Kingdom), A. Abbas, C. Rose, S. Gwynne, O. Nicholas, R. Hugtenburg

- Inter-fraction robustness and organ sparing potential of post-operative cervical cancer IMPT PO - 1967
E. Gort (The Netherlands), J.C. Beukema, H. Hoekstra, A. Sibma, M.J. Spijkerman-Bergsma, M.L. de Vries-de Groot, S. Both, J.A. Langendijk, W.P. Matysiak, C.L. Brouwer
- Knowledge-based planning for intensity-modulated proton therapy of the brain and base-of-skull PO - 1968
R. Kaderka (USA), N. Vu, M. Butkus
- Microdosimetric approach for treatment planning in proton therapy PO - 1969
P. Pisciotto (The Netherlands), J. Magini, E. Traneus, M. Hussein, S. Both, G. Schettino, F. Romano
- Primary renal cell cancer SBRT: a dosimetric evaluation of VMAT, Cyberknife and proton beam therapy PO - 1970
H. Green (United Kingdom), O. Byrne, J. Henderson, P. Bhudia, V. Rompokos, A. Mitra, V. Khoo
- Quality assurance of hippocampal-sparing craniospinal proton plans for pediatric medulloblastoma PO - 1971
A. Edvardsson (Sweden), K. Andersson, C. Vallhagen Dahlgren, J. Gorgisyan, A. Dasu, T. Björk-Eriksson, P. Munck af Rosenschöld
- Dosimetric consequences of SCLC: comparisons among IMRT, proton and carbon-ion radiotherapy PO - 1972
X. Ming (China), J. Mao (China), N. Ma, J. Chen, W. Wang, Y. Sheng
- 3D Rescanning with motion synchronization for lung targets using a proton linac system. PO - 1973
N. Pienimäki (Switzerland), W. Kozłowska, J. Bossé, K. O'Shea, J.B. Farr
- 4D Dose Reconstruction and Evaluation for Gated Scanning Particle Beam Therapy of Thoracic Patients PO - 1974
Y. Sheng (Germany), C. Graeff
- effects of nuclear interaction correction and trichrome fragment spectra modelling in CIRT planning PO - 1975
A. Bazani (Italy), J. Brunner, S. Russo, A. Carlino, D.S. Colomar, M. Ciocca, M. Stock, P. Fossati, E. Orlandi, L. Glimelius, S. Molinelli, B. Knäusl
- Commissioning of helium ion therapy: physics, radiobiology and clinical directions at HIT PO - 1976
T. Tessonier (Germany), R. Wickert, J. Besuglow, S. Mein, S. Ecker, L. Hoeltgen, M. Deng, T. Eichkorn, T. Haberer, K. Herfarth, J. Debus, O. Jäkel, S. Harrabi, A. Mairani
- Intra-tumoral necrosis in Head and Neck proton and carbon ion therapy: the role of Dose, RBE and LET PO - 1977
S. Molinelli (Italy), M. Bonora, A. Vai, S. Ronchi, R. Ingargiola, A.M. Camarda, N. Facchinetti, M. Ciocca, B. Vischioni, E. Orlandi
- Develop the first optimization of LET integrated SPARC with voxel based FLASH dose rate (SPLASHLET) PO - 1978
G. Liu (China), Q. Fan, L. Zhao, X. Li, S. Dai, S. Zhang, X. Lu, X. Ding
- Poly-ether-ether-ketone: An improved bone replacement material compliant with proton radiotherapy PO - 1979
G. Katsifis (Australia), M. Jennings, D. McKenzie, M. Jackson, N. Suchowerska
- The interplay effect and mitigations with cyclotron and linac proton beam scanning for lung SBRT PO - 1980

C. Liu (USA), A. Kolano, T. Gray, J. Farr, K. Stephans, G. Videtic, P. Xia

Commissioning the beam model of apertures in a compact proton system using pencil beam scanning PO - 1981

J.M. Perez Moreno (Spain), J.A. Vera Sánchez, F. Cerrón Campoo, J. Castro Novais, E. Canals de las Casas, I. Lorenzo Villanueva, M. Sallabanda Hajro, M. Montero Feijoo, A. de Pablo González, R. Matute Martín, R. Miralbell, A. Mazal

Comparison of SPARC algorithm efficiency using beamlet-based and beamlet-free optimization schemes PO - 1982

S. Wuyckens (Belgium), G. Janssens, L. Zhao, X. Ding, M. Chocan Vera, H. Ozan, A. Barragan Montero, E. Sterpin, J. Lee, K. Souris, K. Souris

Adaptive aperture optimization in proton therapy to improve NTCP in head and neck cancer patients PO - 1983

M. Bogowicz (The Netherlands), V. Trier Taasti, M. Unipan, G. Bosmans, W. van Elmpt

Relating carbon ion therapy dose constraints for pancreatic cancer at HIT with the NIRS experience PO - 1984

F. Baltazar (Germany), T. Tessonier, B. Kopp, T. Haberer, J. Debus, J. Liermann, A. Mairani

The importance of spot distribution and its influence on the LEM/MKM model relationship in CIRT PO - 1985

J. Gora (Austria), P. Fossati, M. Mumot, M. Shamshad, M. Stock, A. Carlino

Assessment of scenarios based and intrafractional robustness of dynamic proton arc plans PO - 1986

J.M. Perez Moreno (Spain), E. Engwall, V. Wase, J. Castro Novais, J.A. Vera Sánchez, F. Cerrón Campoo, I. Lorenzo Villanueva, E. Canals de las Casas, O. Martín, J. Sundström, M. Montero Feijoo, M. Sallabanda Hajro, A. de Pablo González, R. Matute Martín, R. Miralbell, A. Mazal

Exvivo proton range uncertainty verification of dose calculation on CT and CBCT based synthetic CT PO - 1987

J.M. Perez Moreno (Spain), I. Lorenzo Villanueva, R. Nilsson, S. Andersson, J.A. Vera Sánchez, J. Castro Novais, F. Cerrón Campoo, E. Canals de las Casas, M. Janson, E. Engwall, A. Mazal

Feasibility of bi-criteria optimization applied to proton arc therapy treatment planning PO - 1988

S. Wuyckens (Belgium), L. Zhao, M. Saint-Guillain, G. Janssens, A. Barragan Montero, E. Sterpin, K. Souris, X. Ding, J. Lee

Develop a fast spot sparsity optimization algorithm for proton arc therapy PO - 1989

X. Ding (USA), L. Zhao, J. You, G. Liu, S. Wuyckens, X. Lu

Monitoring and Quality Assurance of scanned proton pencil beams using a CMOS detector PO - 1990

S. Flynn (United Kingdom), C. Baker, M. Homer, V. Rompokos, R. Thomas, A. Toltz, T. Price

Dosimetric Parameters for Localized Salvage Prostate Cancer Retreatments using Proton Scanning Beams PO - 1991

C. Shang (USA), T.R. Williams, S. Ramirez, G. Evans, M. Raman

Track: Physics

Poster (Digital): Optimisation, algorithms and applications for photon and electron treatment planning

-	Poster Stations
A new and practical approach to dose constraints in re-irradiation. <i>S. Vieira (Portugal), J. Stroom, A. Soares, C. Greco</i>	PO - 1992
Dosimetric evaluation of heart substructures & coronaries free and DIBH in left breast carcinoma pts <i>S. Agarwal (India), R. Patel, A. Doshi, M. Roy, N. Kalyani</i>	PO - 1993
Stereotactic Radiotherapy For Brain Metastases: a dosimetric analysis between two techniques <i>A. Essadok (Tunisia), A. Mousli, S. Masssoudi, W. Kaabia, A. Ghorbel, R. Abidi, L. Ben Salem, M. Besbes, C. Nasr</i>	PO - 1994
Impact of range uncertainties on robust mixed electron-photon beam radiation therapy <i>V.J. Heng (Canada), M. Serban, M. Renaud, J. Seuntjens</i>	PO - 1995
Dosimetric assessment of 3D Radiotherapy and IMRT in Wilms' tumor : benefit-risk balance <i>N. Bouzid (Tunisia), R. Zanzouri, B. Amri, M. Souissi, S. Tbessi, S. Belaajouza, S. Tebra</i>	PO - 1996
Dosimetric Comparison Of Multileaf And Fixed Cone Collimator Plans With Cyberknife <i>C. Demiroz Abakay (Turkey), Z. Kiray, S. Çetintaş, M. Kurt</i>	PO - 1997
Validation of a quality score assessing the spacer placement in patients treated with prostate SABR <i>V. Giacometti (United Kingdom), P. Comiskey, H. Marshall, O. Houlihan, G. Whitten, K.M. Prise, A.R. Hounsell, S. Jain, C.K. McGarry</i>	PO - 1998
Heart And Lung Complication Probability In Left Breast Cancer: Comparison Between Fb And DIBH RT <i>M. Caroprese (Italy), A. Barillaro, C. Oliviero, L. Cella, C. Feoli, C. Mainardi, S. Clemente, S. Coppola, E. Chioccola, M. Conson, R. Pacelli</i>	PO - 1999
Dosimetric analyses of 3 radiation techniques used in the EORTC 22922/10925 breast cancer trial <i>O. Kaidar-Person, M. Siman Tov, A. Ostrovski, L. Bogers, A. Petoukhova, S. Hol, M. Mast, H. Struikmans, P. Poortmans (Belgium)</i>	PO - 2000
Initial clinical experience with ITV-free Lung SABR using Synchrony tracking on Radixact Tomotherapy <i>F. Menegatti (Italy), M. Cerrato, C. Grossi, E. Gallio, I. Bonavero, C. Casale, P. Brossa, S. Badellino, F.R. Giglioli, R. Parise, M. Levis, U. Ricardi</i>	PO - 2001
development of an automatic tool for lattice radiotherapy treatment optimization <i>D. Finocchiaro (Italy), M. Orlandi, D. Lambertini, G. Sceni, A. Barani, V. Bertolini, V. Trojani, R. Sghedoni, M. Iori, C. Iotti, F. Iori, L. Cozzi, A. Botti</i>	PO - 2002
Comparison of Hybrid and VMAT planning technique for breast and lymph nodes irradiation <i>D. Bodzak (Poland), P. Wesolowska, E. Fajak, A. Walewska, M. Fillmann, M. Kogut, A. Niwińska, A. Zawadzka</i>	PO - 2003

- Nontarget dose accuracy and reliability of a treatment planning system during prostate radiotherapy PO - 2004
W. Danckaert (Belgium), P. Ost, C. De Wagter
- CyberKnife UH-SBRT for localized PCa with dose-escalation to the DIL: in-silico planning study PO - 2005
G.C. Mazzola (Italy), G. Marvaso, G. Corrao, D. Zerini, S. Durante, A. Vavassori, M.G. Vincini, M. Zaffaroni, E. Rondi, S. Vigorito, F. Cattani, B.A. Jereczek-Fossa
- Evaluation of a Model Based Dose Calculation Algorithm for skin interventional radiation therapy PO - 2006
E. Rosa (Italy), L. Breschi, B. Fionda, V. Lancellotta, G. Stimato, G. Meffe, P. Cornacchione, L. Tagliaferri, L. Indovina, E. Placidi
- Organs at Risk dose analysis for rectal cancer short-course radiotherapy PO - 2007
F. Sansaloni (Spain), E. Recalde, B. Navalpotro
- Dosimetric comparison of Thoracic SBRT planning in Monaco and Eclipse for the Elekta Agility MLC. PO - 2008
R.J. Plata Villamizar (Chile), M. Ribeiro, C.K. Torzsok, H. Broque, A. Ruiz, J.L. Rodriguez-Mongua, J. Aponte, F. Marangoni, M. Pino
- Mono isocentric technique versus dual isocentric technique for breast cancer radiotherapy PO - 2009
N. Bouzid (Tunisia), R. Zanzouri, B. Amri, M. Souissi, S. Tbessi, S. Belaajouza, S. Tebra
- Comparison of Varian Halcyon and Elekta Synergy for HA-WBRT+SIB in multiple brain metastases PO - 2010
J. Kraft (Germany), S. Weick, K. Breuer, P. Lutyj, K. Bratengeier, F. Exner, A. Richter, J. Tamihardja, D. Lisowski, B. Polat, M. Flentje
- Dosimetric correlates and acute toxicity for localized prostate cancer in hypofractionated schedules PO - 2011
J. GARRE CRISTAU (Spain), X. Maldonado, M. Altabas, D. Sanchez, M. Hermida, A.A.A. Geng, E. Recalde, J. Giral
- In-silico feasibility study for short course MR-guided radiotherapy in rectal cancer with boost PO - 2012
H. Harford-Wright (United Kingdom), B. George, J. Drabble, A. Martin, K. Owczarczyk, J. Good
- Dosimetric effects of DICOM RT dataset transfer between different radiotherapy TPSs PO - 2013
G. Meffe (Italy), C. Votta, G. Turco, E. Chillè, M. Nardini, A. Romano, G. Chiloiro, M. Galetto, L. Boldrini, L. Indovina, L. Placidi
- Does Hippocampal Sparing in Stereotactic Radiosurgery Increase Whole Brain Volumetric Parameters? PO - 2014
T. Ulu (Turkey), C. Azak, S. Sahin, M.B. Altundag, F. Goksel, G.S. Kilicoglu, E. Karakaya
- The role of Acuros XB in the inverse optimization of lung VMAT plans evaluated by 4DCT reality PO - 2015
A. Bresolin (Italy), F. La Fauci, G. Reggiori, N. Lambri, M. Pelizzoli, S. Parabolicoli, P. Gallo, L. Paganini, F. Lobefalo, S. Tomatis, M. Scorsetti, P. Mancosu
- Evaluation of block thickness for smaller lungs at extended SSD treatment technique in TBI PO - 2016
R. Srivastava (Belgium), O.A.M. Luiza, F. Vanhoutte

- Knowledge Based Planning: model iteration and plan complexity in Head and Neck patients PO - 2017
G. Reggiori (Italy), A. Bresolin, M. Pelizzoli, S. Parabicoli, A. Fogliata, P. Gallo, F. La Fauci, N. Lambri, F. Lobefalo, P. Mancosu, L. Paganini, M. Scorsetti, S. Tomatis
- Service Development for Adaptive Stereotactic Ablative Radiotherapy on 0.35 Tesla MR Linac PO - 2018
D. Yucel (United Kingdom), D. Murray, E. Chinherende, B. George, H. Harford-Wright, J. Drabble, E. Ilsley, P. Maungwe, A. Huynh, P. Laycock
- Does VMAT increase the risk of secondary malignancies after radiotherapy of left-breast cancer? PO - 2019
S. Cilla (Italy), C. Romano, G. Macchia, M. Boccardi, D. Pezzulla, M. Buwenge, A. Arcelli, A. Zamagni, S. Cammelli, L. Indovina, V. Valentini, F. Deodato, A.G. Morganti
- Reproducibility and tolerance of accelerated partial breast irradiation in selected patients PO - 2020
F. Cucciarelli (Italy), M. di Benedetto, E. Arena, E. Galofaro, M.V. Agbaje Olufemi, C. Di Carlo, L. Vicenzi, F. Fenu, M. Parisotto, M. Valenti, G. Mantello
- Importance of Optimisation Parameters for Lung SABR Plan Robustness against Machine Delivery Errors PO - 2021
A. Thorne (United Kingdom), A.L. Palmer, G.J. Budgell
- Feasibility of MR-guided (MRgRT) isotoxic re-irradiation in moving targets PO - 2022
D. Murray (United Kingdom), B. George, M. Robinson, P. Camilleri, K. Owczarczyk, A. Gaya, J. Good, D. Yucel, J. Drabble, H. Harford-Wright, E. Chinherende, P. Maungwe, A. Huynh
- Dosimetric Evaluation of an MR Linac System compared to multiple Stereotactic Radiotherapy systems PO - 2023
R. Tolakanahalli (USA), R. Kotecha, D.J. Wieczorek, Y. Lee, K. Mittauer, N. Bassiri, M. Hall, M. Chuong, M. Mehta, M. McDermott, A. Gutierrez
- Effectiveness of Non-coplanar Monoisocenter Multifraction Radiosurgery for Multiple Brain Metastases PO - 2024
F. Colombo (Italy), F. Salaroli, I. Renna, G. Ceccon, E. Lattanzi, S. Gianni, C. Grondelli, M. Bergamini, C. Dell'Anna, M. Galaverni, F. Bozzetti, P. Tortoli, M. Maddalo, A. Mazzilli, G. Benecchi, C. Ghetti, N. D'Abbiero, N. Simoni
- Reconstructing dose distributions from manually planned electron boosts in breast radiotherapy PO - 2025
T. Jaikuna (United Kingdom), E. Vasquez Osorio, I. Dawes, P. Hoskin, M. Van Herk, C. M. L. West, D. Azria, S. Gutiérrez-Enríquez, M. Lambrecht, T. Rancati, B. S. Rosenstein, D. de Ruysscher, E. Sperk, C. J. Talbot, T. Rattay, A. Webb, L. Veldeman, A. Vega, J. Chang-Claude, P. Seibold, A. Seoane, M. C Aznar
- Comprehensive Plan Quality assessment of FAST-Forward treatments: VMAT and DIBH Technique PO - 2026
M. Fusella (Italy), M. Nicoletto, M.C. Schifano, E. Maffi, C. Antonelli, C. Gelmi, L. Corti, A. Testolin
- Dose comparison study for left-sided breast cancer patients based on different planning techniques PO - 2027
A. Saini (Denmark), E. Samsøe
- External contour optimization and its influence on Brainlab Exactrac Dynamic PO - 2028
R. Astudillo (Spain), R. Fabregat Borrás, F. Gomez Enriquez, P.I. Valverde Pascual, M. Martín Véganzones, S. Ruiz Arrebola, M. Gutierrez Ruiz, J. Alonso Muriedas, U.A. Corro Verde, V. Cañon García, J.T. Anchuelo Latorre, M.T. Pacheco Baldor, M. Ferri Molina,

P.A. Navarrete Solano, A. Reguilon Martin, G. Camacho de la Vega, D. Bruzos Lopez, M. Garcia Lamela, F. Pinto Guevara, J. Albendea Roch, A.L. Rivero Perez, J.A. Vazquez Rodriguez, J.I. Raba Diez

Autopanning tangential IMRT technique for DIBH breast radiotherapy: a robustness evaluation. PO - 2029

A. Gnerucci (Italy), M. Esposito, A. Ghirelli, S. Pini, L. Paoletti, R. Barca, S. Fondelli, P. Alpi, B. Grilli, F. Rossi, S. Scoccianti, S. Russo

Improving the normal tissue sparing using scripting in endometrial cancer radiation therapy planning PO - 2030

Y. Yedekci (Turkey), M. Gültekin, S. Yuce Sari, F. Yildiz

Development of a TPS for Very High Energy Electrons delivered at FLASH rates PO - 2031

A. De Gregorio (Italy), D. Carlotti, M. Fischetti, G. Franciosini, M. Marafini, I. Mattei, A. Muscato, A. Sarti, A. Schiavi, A. Sciubba, M. Toppi, G. Traini, A. Trigilio, V. Patera

Evaluation of treatment delivery quality for right breast tomotherapy in prone position PO - 2032

M. Jaccard (Switzerland), M. Fargier-Voiron, N. Perichon, C. De Marco, O. Matzinger, S. Bulling, F. Caparrotti

Feasibility of TBI treatment with VMAT technique: a dosimetric study PO - 2033

D. Curto (Italy), A.F. Monti, C. De Mattia, M.G. Brambilla, G. Muti, D. Zanni, V.M. Arienti, B. Orlandini Bertarini, M.F. Palazzi, P.E. Colombo

First clinical application of Image-guided IOERT in recurrent rectal cancer - Technical procedure. PO - 2034

F. Roeder (Austria), G. Fastner, C. Fussl, F. Sedlmayer, M. Stana, J. Berchtold, T. Jäger, J. Presl, P. Schredl, K. Emmanuel, D. Colleselli, G. Kotolacsi, P. Scherer, P. Steininger, C. Gaisberger

Experiences from the clinic after 2 years of using MR-only treatment planning for pelvic cancers PO - 2035

H. Nissen (Denmark), B.M. Havelund, C.V. Madsen, J. Pløen, C. Krog, L.N. Olesen, S.P. McIlroy, M. Berg

Dosimetric Comparison of High Dose Rate Brachytherapy vs MR-Guided SBRT Boost for Cervical Cancer PO - 2036

N. Dincer (Turkey), G. Ugurluer, T. Zoto Mustafayev, A. Serkizyan, G. Aydin, G. Gungor, B. Atalar, E. Ozyar

Hydrogel Spacer in the treatment of prostate cancer: Feasibility and Rectal Dosimetry PO - 2037

J.A. Domínguez Rullán (Spain), M. Valero Perena, E. Centelles Hidalgo, F. Mesa López, F. López Campos, M.T. Muñoz Miguelañez, C. Vallejo Ocaña, D. Sevillano García, J.D. García Fuentes, S. Sancho García, A. Hervás Morón

Analysis of daily treatment fractions using PerFRACTION on a Halcyon linac PO - 2038

S. Pie-Padro (Spain), P. Navarro-Palomas, D. Sánchez-Artuñedo

Differences in coverage of GTV and PTV during the ten respiratory phases in SBRT of 50 lung tumors PO - 2039

T.L. Fink (Denmark), C. Kristiansen, T.S. Hansen, T.F. Hansen, R.S. Thing

Dosimetric Impact of Tools in Optimization of RapidArc Plans for Prostate Cancer PO - 2040

C. de Almeida Ribeiro (Italy), A. M. Froner, B. D. Frohlich

Heart-sparing techniques and heart dose constraints used in clinical practice in Europe PO - 2041

F. Kraja (Albania), M. Chirilă, P. Franco, P. Poortmans, I. Ratosa

- Plan quality & deliverability of IMRT plans for lung cancer using various leaf motion calculators PO - 2042
E. Kong (Hong Kong (SAR) China), N.T. Fung, M.C. Lee
- Thyroid Avoidance in Breast Cancer Patients Irradiated to Supraclavicular Nodes: A Dosimetry Study PO - 2043
A. Clivio (Switzerland), D.R. Zwahlen, S. Koch, C. Negreanu, E. Barletta, H. Haerle, E. Hofmann, C. Oehler
- Plan quality comparison at 5 years in 2 cohorts of breast cancer patients treated with Tomotherapy® PO - 2044
S. Dicuonzo (Italy), M. Zaffaroni, K.M.S.A. Amin, K.M.S.A. Amin, G. Ronci, M. D'Arcangelo, M.G. Vincini, R. Cambria, R. Luraschi, D.P. Rojas, M.A. Zerella, F. Cattani, R. Orecchia, M.C. Leonardi, B.A. Jereczek-Fossa
- CyberKnife with InCise MLC versus VMAT with FFF in SBRT for Prostate cancer: A dosimetric comparison PO - 2045
W. Phongprapun (Thailand), P. Chanwichu, W. Sittiwong, S. Kunchitshoulakul, P. Dankulchai
- DIBH (Deep Inspiration Breath-Hold) in left breast radiotherapy -institutional experience PO - 2046
M. Dzhuqashvili (Spain), M. Montijano, B. Sevilla, C. Peraza, J. Fernandez, D. Gonsalves, M. Guijarro, E. Lopez
- Stereotactic radiotherapy of prostate cancer patients—two techniques comparison: preliminary results PO - 2047
A. Napieralska (Poland), W. Majewski, M. Krzempek, G. Woźniak, M. Miszczyk, M. Kraszkiewicz, A. Namysł-Kaletka
- Analysis of different optimization methods for single and multiple metastases SRS plans PO - 2048
M. Roch (Spain), P. Castro, D. Hernandez, R. Simon, P. Chamorro, S. Honorato, S. Gonzalo, M. Murillo
- Verification of hybrid VMAT plan robustness PO - 2049
P. Wesółowska (Poland), E. Fajak, A. Walewska, D. Bodzak, P. Kukołowicz, A. Zawadzka, M. Fillmann
- Chest wall pain in lung SBRT patients: dose-volume correlations PO - 2050
C. Muñoz-Montplet (Spain), R. Fuentes-Raspall, D. Jurado-Bruggeman, B. Gómez-Horsfield, O. Font-Planas, D. Lambisto-Castro, S. Agramunt-Chaler, A. Onsès-Segarra, I. Romera-Martínez, E. Massana-Melchor, A. Eraso-Urién
- Set-up errors evaluation of CSI using longitudinally extended CBCT & its comparison with normal CBCT PO - 2051
P. Agarwal (India), U. Mukherjee, K. Kaushik, T. Shrivastava, J. Verma, D. Nandi, N. Sharma, S. Pradhan
- Impact of the VOLO Optimizer on Treatment Plan Quality of Stereotactic Prostate Radiotherapy. PO - 2052
T. Viren (Finland), J. Seppälä
- Assessment of the GE Metal Artifact Reduction option in CTs used for dose calculations with Eclipse PO - 2053
S. Linsalata (Italy), R. Borgheresi

- Implementation of a tangential IMRT solution for breast cancer in Monaco TPS PO - 2054
S. Poeta (Belgium), D. Rodriguez Garcia, Y. Jourani, A. Desmet, N. Reynaert
- Impact of MLC leaf width on plan quality for single-isocenter multi-target conformal-arc SRS PO - 2055
D. Chen (USA), Y. Yang, V. Lockamy, W. Gu, H. Liu, W. Shi, M. Alonso-Basanta, L. Dong, T. Li
- CHHiP planning improvement tools PO - 2056
M. Gomes (United Kingdom), S. Williams
- Volumetric modulated arc therapy (VMAT) for whole brain radiotherapy with hippocampal sparing PO - 2057
Ł. Szczurek (Poland)
- Dosimetric Comparison Of Dose&Volume Change By Different Planning Techniques In Hodgkin Lymphoma PO - 2058
A. Altay (Turkey), M. Kurt, P. Çona, S. Tunç, C. Demiröz Abakay, S. Kahraman Çetintaş
- The impact of breast board and body mass index on setup errors during breast cancer radiotherapy PO - 2059
I.-C. Costin (Romania), I. Costin, L.G. Marcu
- Analysis of different dosimetric indices using various formulae in cranial srs /srt planning PO - 2060
V. Sundaram (India), T. Vasudeva, A.K. Mani, P. Mohandass, D. Khanna, S. Palanivel, P. Muthuvel, A. Prakash
- Dosimetric indexes and its potential relationship with target size and location in SBRT lung cancer. PO - 2061
G. Pozo Rodriguez (Spain), S. Fernández Alonso, S. Guardado Gonzalez, E. Cabello Murillo, A. Milanés Gaillet, P. Adaimi Hernández, R. Díaz Fuentes, M. Manzano Rodríguez, Á. Gaitán Simón, A. Ferrando Sánchez, P. Botella Faus, P. García Castañón, D. Rojo Navarrete, J.F. Pérez-Regadera Gómez
- Automating the simulations of IMRT, DCA and VMAT plans with the PRIMO Monte Carlo software PO - 2062
M. Hermida López (Spain), J.F. Calvo-Ortega
- VMAT vs Hybrid techniques in breast irradiation with internal mammary nodes PO - 2063
D. Lambisto Castro (Spain), I. Romera-Martínez, D. Jurado-Bruggeman, S. Agramunt-Chaler, A. Onsès-Segarra, E. Massana-Melchor, M. Vidal Borràs, J. Vayreda Ribera, A. Eraso-Urien, C. Muñoz-Montplet
- Separated single arc VMAT with rectangular collimation (SA-VMAT) for prostate SBRT. PO - 2064
H. Nagano (Japan), H. Yokoyama, M. Kato, H. Hashimoto, T. Shimo, M. Watanabe, M. Nakanishi, H. Suzuki, Y. Kaneko, K. Kobayashi, C. Takano, S. Tanaka, Y. Goto, E. Horikoshi, M. Notani
- Retrospective VMAT planning study to evaluate benefit of SpaceOAR in patients with hip prostheses PO - 2065
I. Gagne (Canada), A. Alexander, K. Scarth
- Whole brain radiotherapy with hippocampal avoidance using Varian HyperArc: Preliminary study PO - 2066
M. Martínez Albaladejo (Spain), V. Puchades Puchades, J. Suárez Arteaga, D. Ramos Amores, A. Serna Berná

Improvement in plan quality after Clinical Goals implementation in a large network of cancer centers PO - 2067

H. Liu (USA), P. Nuksani, M. Rajagopalan, M. Patil, K. Komanduri, B. Murphy, D. Khuntia, S. Beriwal

Errors detected during physics plan review for external beam radiotherapy treatment plans PO - 2068

F. Siebert (Germany), M. Hirt, M. Delaperrière, J. Dunst

Track: Physics

Poster (Digital): Physical aspects of quantitative functional and biological imaging

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Poster Stations

Evaluating radiotherapy response in uterine cervical tumours using intra-voxel incoherent motion MRI PO - 2069

D. McHugh (United Kingdom), A. Datta, M. Dubec, D. Buckley, R. Little, M. Berks, S. Cheung, C. West, A. Choudhury, P. Hoskin, J. O'Connor

Voxel-wise tumour response estimation from functional imaging and radiobiological model. PO - 2070

A. Lopez Medina (Spain), M. Porta-Lorenzo, M. Riveira-Martin, I. Sanchez-Diaz, R. Dorado-Dorado, F.J. Salvador-Gomez, I. Nieto-Regueira, V. Ochagavia-Galilea, V. Muñoz-Garzón

Semi-automatic DWI segmentations can be used for response assessment in nCRT in esophageal cancer PO - 2071

R. den Boer (The Netherlands), K. Ng Wei Siang, M. Yuen, A. Borggreve, I. Defize, R. van Hilleberg, J. Ruurda, S. Mook, G. Meijer

Simultaneous PET and DW-MR for Outcome Prediction of Neoadjuvant Chemoradiotherapy for Rectal Cancer PO - 2072

J. Wyatt (United Kingdom), G. Petrides, R. Pearson, A. Hashmi, T. Simmons, R. Maxwell, H. McCallum

Oxygen sensitivity of a silicone based magnetic resonance contrast agent PO - 2073

R. Cormack (USA), J. Tokuda, G. Ekchian, E. Kaza, M. Dyer, M. Cima

Calibration of ADC values for Quantitative MRI PO - 2074

B. Aylward (United Kingdom), J. McLean

Optimising the MRL Consortium Biomarkers Group Prostate DWI Sequence Image Quality & ADC Comparison PO - 2075

C. Moore (United Kingdom), A. Clough, C. Nelder, C. Eccles, P. Hoskin, R. Chuter, J. Zhong, D. McHugh, A. Choudhury, M. Dubec

Longitudinal ADC measured with MR-linac in patients with pancreatic tumours PO - 2076

A. Bisgaard (Denmark), U. Bernchou, A.S. Bertelsen, T. Schytte, C. Brink, M.W. Ejlsmark, F. Mahmood

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O.L. Wong (Hong Kong (SAR) China), J. Yuan, M.P. Poon, S.T. Chiu, B. Yang, W.H.R. Yung, K.Y. Cheung

Timing of hypoxia PET/CT after 18F-Fluoromisonidazole injection in non-small cell lung cancer PO - 2078

P. Bourigault, J.(M. Low (United Kingdom), M. Skwarski, R. Macpherson, G. Higgins, D. McGowan

Repeatability of diffusion weighted imaging on 1.5T MR-Linac in Bladder, Cervix and Rectal Cancer	PO - 2079
<u>M. Ingle (United Kingdom)</u> , M. Blackledge, S. Hafeez, S. Bhide, A. Wetscherek, S. Lalondrelle	
Time-dependent diffusion MRI for non-invasive tumor characterization on a 1.5 T MR sim	PO - 2080
<u>M. Jokivuolle (Denmark)</u> , H. Lundell, K. Madsen, F. Mahmood	
Quantitative MRI detects radiation dependent demyelination in normal appearing white matter	PO - 2081
<u>A. Ljusberg (Sweden)</u> , I. Blystad, P. Lundberg, E. Adolfsson, A. Tisell	
CT Ventilation Image-guided Tomotherapy at Sparing Functional Lungs for Locally Advanced Lung Cancer	PO - 2082
<u>Z. Hou (China)</u> , S. Li, J. Liu, S. Gao, J. Yan	

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<u>V. Rogowski (Sweden)</u> , M. Kadhim, C. Jamtheim Gustafsson, M. Gebre-Medhin, P. Munck af Rosenschöld, A. Ånghede Haraldsson	
Prediction of hormone status in breast cancer using 18F-FDG PET/CT radiomics features	PO - 2084
<u>B.Z. Devran (Turkey)</u> , O. Ayyıldız, G. Özden, H. Alkış, T. Öneş, S. Özgüven	
A radiobiological model of the synergy between radiotherapy and immunotherapy	PO - 2085
<u>I. Gonzalez-Crespo (Spain)</u> , A. Buñuel-Muriscot, A. Gomez-Caamaño, O. Lopez Pouso, J.D. Fenwick, J. Pardo-Montero	
Machine learning to predict local failure in melanoma brain metastases treated with radiosurgery	PO - 2086
<u>M. Shanker (Australia)</u> , P. Ramachandran, R. Motley, M. Huo, M. Foote, M. Pinkham	
NTCP modelling with dosiomics features for postoperative complications in oesophageal cancer	PO - 2087
<u>R. Duwaerts (Belgium)</u> , G. Defraene, P. Populaire, E. Sterpin, K. Haustermans	
Delta radiomic analysis of mesorectum to predict treatment response and prognosis in LARC	PO - 2088
<u>G. Nicoli (Italy)</u> , G. Chiloio, D. Cusumano, A. Romano, L. Boldrini, B. Barbaro, B. Corvari, E. Meldolesi, V. Valentini, M.A. Gambacorta	
Toxicity modelling in RT using Bayesian network topology optimization with simulated annealing	PO - 2089
<u>K. Stenhouse (Canada)</u> , P. McGeachy, S. Spampinato, K. Tanderup, K. Martell, S. Quirk, K. Kirchheiner, M. Schmid, M. Roumeliotis	
Can Radiomics support Early Regression Index in predicting rectal cancer response to MRgRT?	PO - 2090
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- A method to explore dose and LET for normal tissue response studies in large proton therapy cohorts PO - 2091
R. Klitgaard (Denmark), P. Johnson, N.P. Mendenhall, M. Artz, C. Bryant, P. Lægdsmand, L.F. Fjæra, L.P. Muren
- Early toxicity and diffusion-weighted MRI assessment after Single-Dose Ablative Radiotherapy for PCa PO - 2092
R. Lucchini (Italy), D. Gandola, V. Faccenda, G. Purrello, C. Talei Franzese, D. Panizza, S. Arcangeli
- Deep-learning standardization of MR images in radiomic studies-Application to LACC T2w MRI PO - 2093
S. Niyoteka (France), R. Rouhi, P. Laurent, A. Carré, S. Achkar, S. Diffetocq, C. Balleyguier, C. Chargari, E. Deutsch, C. Robert
- Dosimetrics applied to biological dose and LET maps to predict Local Recurrence in Sacral Chordoma PO - 2094
G. Parrella (Italy), L. Morelli, S. Annunziata, S. Molinelli, G. Magro, M. Ciocca, A. Chalaszczyk, M.R. Fiore, C. Paganelli, E. Orlandi, G. Baroni
- In silico identification of dose equivalences in hypofractionated prostate cancer radiotherapy PO - 2095
C. Sosa-Marrero (France), A. Briens, P. Fontaine, O. Acosta, R. de Crevoisier
- Machine learning prediction of Dice similarity coefficient for accuracy evaluation PO - 2096
Y.M. Wong (Singapore), P.L. Yeap, A.L.K. Ong, H.Q. Tan, W.S. Lew, J.C.L. Lee
- Acute toxicity prediction after breast radiotherapy using machine-learning and spectrophotometry PO - 2097
S. Cilla (Italy), C. Romano, G. Macchia, M. Boccardi, D. Pezzulla, M. Buwenge, A. Di Castelnuovo, F. Bracone, A. De Curtis, C. Cerletti, L. Iacoviello, M.B. Donati, F. Deodato, A.G. Morganti
- Deep learning post-radiotherapy recurrence prediction in head and neck cancer from planning PET/CT PO - 2098
D. Kutnar (Denmark), D. Kutnar
- Bladder dose surface maps identify subregions associated to late toxicities after prostate cancer RT PO - 2099
E. Gioscio (Italy), A. Cicchetti, J. Iacovacci, S. Spampinato, J.M. Waskiewicz, B. Avuzzi, E. Garibaldi, E. Villa, A. Magli, D. Cante, G. Girelli, M. Gatti, L. Ferella, B. Noris Chiorda, P. Ferrari, C. Piva, M. Pavarini, R. Valdagni, V. Vavassori, F. Munoz, C. Fiorino, C. Cozzarini, T. Rancati
- Radiomic features and PFS post-PACIFIC in the Blue Sky Observational Study on stage 3 PDL1+ NSCLC. PO - 2100
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- Added value of mri radiomics to predict pathological status of prostate cancer patients PO - 2101
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- CT-based radiomics for outcome prediction in oropharyngeal cancer patients treated with curative RT PO - 2102

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X. Yang (China), B. Feng, F. Jin, X. Wang, H. Yang, H. Luo, H. Peng

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P. Mateus (The Netherlands), I. Bermejo, A. Dekker

Machine learning prediction of pain response to palliative radiation therapy with CT-based radiomics PO - 2106

O. Llorian (Germany), J. Akhgar, S. Pigorsch, K. Borm, S. Münch, D. Bernhardt, B. Rost, M. Andrade, S. Combs, J. Peecken

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Impact of breathing and image filtering on radiomic features derived from 4D-CT in early-STAGE NSCLC PO - 2108

S. Volpe (Italy), F. Mastroleo, A. Gaeta, M. Zaffaroni, M. Pepa, M.G. Vincini, S. Raimondi, L.J. Isaksson, C. Rampinelli, M. Cremonesi, S. Gandini, M. Guckenberger, R. Orecchia, B.A. Jerezcek-Fossa

Impact of normalisation methods for longitudinal MR images on radiomic features. PO - 2109

A. Rankin (United Kingdom), M. Aznar, A. Davey, R. Portner, A. McWilliam

Normalised odds ratios help understand the relative importance of dose in multivariable models PO - 2110

E. Dalqvist (Sweden), T. Rancati, H. Ólafsdóttir, G. Gagliardi, G. Alexandersson von Döbeln, M. Nilsson, F. Klevebro, E. Onjukka

The role of combined radiomics features as predictor of response to CRT or BRT in patients with OPC PO - 2111

H. Inokuchi (Japan), N. Mukumoto, M. Sakagami, M. Yamagishi, N. Hamaura, H. Itoyama, S. Matsuda, K. Shibuya

Radiomics of diffusion-MRI for predicting Gleason Score in Prostate Cancer treated with radiotherapy PO - 2112

L. Morelli (Italy), C. Paganelli, G. Marvaso, S. Annunziata, G. Parrella, M. Pepa, M. Zaffaroni, M.G. Vicini, L.J. Isaksson, G. Corrao, P. Pricolo, S. Alessi, P.E. Summers, F. Cattani, O. De Cobelli, R. Orecchia, G. Petralia, B.A. Jerezcek-Fossa, G. Baroni

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A. Huat (France), N.R. Franco, J. Chang-Claude, A. Cicchetti, S. Gutiérrez-Enríquez, P. Seibold, C. Talbot, A. Vega, D. Gibon, P. Zunino, T. Rancati

- Machine learning and image-oriented methods for head and neck cancer treatment outcome prediction PO - 2114
B.N. Huynh (Norway), A.R. Groendahl, O. Tomic, I.S. Knudtsen, F. Hoebers, W. van Elmpt, E. Malinen, E. Dale, C.M. Futsaether
- federated learning of decentralized AI for predicting radiation pneumonitis in lung cancer patients PO - 2115
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- Manual or automatic heart contours do not lead to difference in predicted survival in NSCLC patients PO - 2116
M. Fernandes (The Netherlands), J. Bussink, R. Wijsman, R. Monshouwer, B. Stam
- CTV-free lung planning: Can we reduce toxicity whilst maintaining local control? PO - 2117
M. Craddock (United Kingdom), C. Faivre-Finn, M. van Herk, A. McWilliam, G. Price
- Late toxicity predictors in high-risk prostate cancer radiotherapy using accumulated delivered dose PO - 2118
A. Ong (Singapore), V. Panettieri, M. Dimmock, M. Dimmock, J. Tuan, H.Q. Tan, C. Wright
- Repeatability of Voxel-Based Analysis pipeline in radiation oncology: a first pilot experiment PO - 2119
S. Monti (Italy), E. Mylona, R. de Crevosier, C. Fiorino, T. Rancati, O. Acosta, G. Palma, L. Cella
- In silico simulation for better prediction of biochemical recurrence in prostate cancer radiotherapy PO - 2120
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- Determination of prognostic factors in 18F-FDG PET/CT of relapsed/refractory Hodgkin lymphoma PO - 2121
M. Jajroudi (Iran Islamic Republic of), P. Geramifar, S. Eslami
- Effect of early fractional lymphocyte loss on lymphopenia probability models for NSCLC PO - 2122
T. Kanehira (Japan), H. Taguchi, N. Katoh, Y. Uchinami, T. Yoshimura, M. Tamura, R. Suzuki, T. Hashimoto, H. Aoyama
- Deep Learning Prediction of 2-year Survival in Lung Cancer Patients Undergoing Radical Radiotherapy PO - 2123
Y. ZHANG (United Kingdom), M. Simard, O. Chohan, Z. Shen, P. Zaffino, G. Royle, D. Brand, M. Hawkins, C.A. Collins Fekete
- Multiparametric MRI and PET to predict ISUP grade groups in prostate cancer patients PO - 2124
E. Nilsson (Sweden), K. Sandgren, J. Grefve, J. Jonsson, J. Axelsson, A. Keeratijarut Lindberg, K. Söderkvist, C. Thellenberg Karlsson, A. Widmark, L. Blomqvist, S. Strandberg, K. Riklund, A. Bergh, T. Nyholm
- Contrastive self-supervised learning of lung tumor imaging predicts immunotherapy response PO - 2125
T. Chaunzwa (USA), S. Pai, D. Bontempi, B. Ricciuti, S. Bernatz, J. Alessi, R. Mak, M. Awad, H. Aerts
- Integrative Radiomic-Clinical Model Improves Long-term Prognostication of High-risk Prostate Cancer PO - 2126
C.F. CHING (Hong Kong (SAR) China), C.F. Ching, C.H. Lam, O.Y. Lui, C.K. Kwong, Y.H. Lo, W.H. Chan, W.S. Leung, S.W. Lee

Linear quadratic model is not a valid predictive model for post radiation clonogenic cell survival PO - 2127

H. Li (USA)

Track: Brachytherapy

Poster (Digital): Brachytherapy: Breast

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Poster Stations

HDR perioperative interventional radiotherapy (brachytherapy) in soft tissue sarcomas of extremities PO - 2128

N. Dinapoli (Italy), B. Fionda, V. Lancellotta, E. Placidi, G.C. Mattiucci, T. Greco, C. Graci, C. Perisano, V. Valentini, G. Maccauro, L. Tagliaferri

Track: Brachytherapy

Poster (Digital): Brachytherapy: Gynaecology

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Poster Stations

Dose gradients between HR-CTV 100% and IR-CTV 50% in IGBT of GYN cancer: Tandem vs Needles PO - 2129

R. Kim (USA), S. Marcrom, M. Yusuf, J. Peacock, Z. Iqbal

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S. Wang (China), J. Lang (China), L. Shun

Results of accelerated intracavitary interventional radiotherapy schedules for cervix cancer PO - 2131

V. Lancellotta (Italy), G. Macchia, B. Fionda, M. De Angeli, R. Autorino, M. Campitelli, A. Salvati, G. Ferrandina, R. De Vincenzo, G. Scambia, M.A. Gambacorta, L. Tagliaferri

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L.K. Lam (Hong Kong (SAR) China)

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A. Beiki-ardakani (Canada), I. Yeung, A. Simeonov, A. Rink, J. Borg, R. Weersink, M. Milosevic, J. Jezioranski

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N. Nagai (Japan), M. Kawamura, S. Ishihara, Y. Oie, Y. Kozai, Y. Takase, M. Okumura, Y. Shindo, R. Yasui, Y. Yanagi, S. Naganawa

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- Outcomes of postoperative vaginal brachytherapy in the early-stage endometrial cancer PO - 2138
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- Improvements of Elekta Fletcher type applicator in brachytherapy using 3D printing technology PO - 2139
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- Are 7.5Gyx2 fractions more efficient than 6Gyx3 in postoperative endometrial cancer brachytherapy? PO - 2140
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- Cervix brachytherapy: determining the optimal bladder volume using empty and full bladder MRI scans PO - 2141
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- Dosimetric uncertainties due to inter-fraction organ at risk movement in HDR cervical brachytherapy. PO - 2142
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- Comparison of doses according to bladder classification in brachytherapy for cervical cancer PO - 2143
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- Prelude to a registration study on CT based IGABT for cervical cancer: An international survey PO - 2145
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- Pre-plan Technique Benefice in Transperineal Brachytherapy PO - 2146
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- Analysis of time-dependent pretreatment OAR dose variation during Image-guided brachytherapy PO - 2154
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- Image guided brachytherapy and implementation of the interstitial technique in cervical cancer PO - 2155
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- Optimization of catheter placement for transperineal interstitial gynaecological brachytherapy PO - 2156
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- The experiences of women receiving low-dose brachytherapy for cervical cancer PO - 2158
A. hadhemi (Tunisia), K. Ben Zid, N. Attia, A. Mousli, S. Messoudi, F. Bouguerra, R. Abidi, C. Nasr
- Clinical outcomes and toxicities of cervical cancer patients treated with HDR-BT after CCRT PO - 2159
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- Dose escalation in brachytherapy for locally advanced cervical cancer PO - 2162
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Track: Brachytherapy

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Estimation of dose of a brachytherapy source to train public authorities for an emergency situation <i>M. Baumgartl (Switzerland), M. Ackermann, K. Uher, S. Tanadini-Lang</i>	PO - 2175

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<i>O. Mc Laughlin (United Kingdom), S. Esteve, O. Houlihan, G. Workman, M. Byrne, S. Jain, A. Hounsell, K. Prise, C. McGarry</i>	
Optimisation and dose calculation differences between algorithms in endometrial brachytherapy	PO - 2180
<i>S. Honorato Hernandez (Spain), D. Hernandez Gonzalez, P. Castro Tejero, P. Chamorro Serrano, M. Roch Gonzalez, R. Simon de Blas, M.S. Talaya Alarcon, S. Carroceda Gonzalez, A. Valiente Gonzalez</i>	
Studies performed for the characterization of a mailed dosimetric audit of HDR Brachytherapy	PO - 2181
<i>L. Oliver Canamas (Spain), J. Vijande-Asenjo, C. Candela-Juan, J. Gimeno-Olmos, M.C. Pujades-Claumarchirant, J.J. Rovira-Escutia, J.A. Martínez-Navarro, A. Zaragoza-Carrillo, J.M. Calatayud-Jordán, F. García-Cases, F. Ballester-Pallarés, J. Pérez-Calatayud</i>	
Development of an atlas-based segmentation tool for gynecological Interventional Radiation Therapy	PO - 2182
<i>L. Breschi (Italy), V. Lancellotta, A. Quici, B. Fionda, F. Greco, S. Teodoli, P. Cornacchione, L. Tagliaferri, L. Indovina, E. Placidi</i>	
Evaluation of MOSFET response in phantom for in vivo dosimetry in high-rate brachy breast treatments	PO - 2183
<i>M. Gutierrez Ruiz (Spain), J. Alonso, G. Camacho, A. Reguilon, J. Albendea, F. Pinto, M. Garcia, A. Rivero, C. Uriel, V. Cañon, M. Ferri, J. Anchuelo, R. Astudillo, D. Bruzos, F. Gomez, A. Vazquez, I. Raba, M.T. Pacheco, P.J. Prada, S. Arrebola, R. Fabregat</i>	

Track: Brachytherapy

Poster (Digital): Brachytherapy: Head and neck, skin, eye

-	Poster Stations
Brachytherapy in the elderly for non-melanoma skin cancers: a single center experience	PO - 2184
<i>B. Santo (Italy), M.C. Barba, E. Cavallera, E. Ciurlia, P. De Franco, G. Di Paola, S. De Matteis, C. Federico, A. Leone, A. Papaleo, D. Russo</i>	
High-dose-rate brachytherapy in recurrent head and neck cancer after the previous radiotherapy	PO - 2185
<i>M. Sakuramachi (Japan), N. Murakami, T. Kashiwara, H. Igaki</i>	
Does HDR brachytherapy for head and neck cancers still have a place in 2022 ?	PO - 2186
<i>J. Bouziane (Morocco), M. Ait Erraisse, W. Hassani, F.Z. Farhane, Z. Alami, T. Bouhafa</i>	
Challenges in implementing brachytherapy for head & neck cancer in a New Comprehensive Cancer Centre	PO - 2187
<i>R. Vadgaonkar (India), R. Miriyala, A. Mehta, C. Kiriti, R. Hajare, K.K. Sreelakshmi, M. Anil Kumar, S. Dash, P. Parab, N. Kumar, R. Reddy, S.R. Bulla, V. Shende, R. Biswas, A. Nawar, K. Gunjal, S. Ghagre, C. Dravid, S.K. Kavutarapu, U. Mahantshetty</i>	

High dose rate surface brachytherapy in non-melanoma skin cancer	PO - 2188
<i>C. F. Pedrero (Spain), S. Fernandez Alonso, S. Guardado González, C. Arias Guillén, G. Pozo Rodríguez, E. Capón Saez, A. Ferrando Sanchez, R. D'Ambrosi, J.F. Pérez-Regadera Gómez</i>	
Plesiotherapy with 3D-printed custom molds for extramammary testicular Paget's disease (EMPD)	PO - 2189
<i>C. F. Pedrero (Spain), S. Guardado Gonzalez, S. Fernandez Alonso, C. Arias Guillén, E. Capón Sáez, G. Pozo Rodríguez, A. Ferrando Sanchez, J.F. Pérez-Regadera Gómez</i>	
Comparison of doses in the critical organs in oral cavity tumors, applying BT, VMAT and SRT	PO - 2190
<i>&. Ferenczi (Hungary)</i>	
Technique and oncological outcomes with high dose rate skin surface brachytherapy for skin tumors.	PO - 2191
<i>K. Soussy (Morocco), M. Ait Erraisse, M. Baraka, W. Hassani, F.Z. Farhane, Z. Alami, T. Bouhafa</i>	

Track: Brachytherapy

Poster (Digital): Brachytherapy: Urology (prostate, bladder, penile)

-	Poster Stations
Congruence between patient-reported outcomes and toxicity of LDR Brachytherapy for prostate cancer	PO - 2192
<i>L. Bardoscia (Italy), M.A. Gilio, P. Cocuzza, M. Quattrocchi, M. Mignogna</i>	
Organ positional differences between planning US and implant procedure in two-step LDR brachytherapy	PO - 2193
<i>O. Houlihan (United Kingdom), S. Esteve, O. McLaughlin, G. Workman, M. Byrne, K. Prise, A. Hounsell, D. Mitchell, S. Jain</i>	
uLDR-BT in treating patients with unfavorable intermediate-risk group prostate cancer.	PO - 2194
<i>A. Kluska (Poland), A. Chicheł, W. Burchardt, M. Włodarczyk, A. Chyrek</i>	
Two implant-fraction HDR-brachytherapy for prostate cancer: preliminary results and early toxicity	PO - 2195
<i>I. Strouthos (Cyprus), K. Ferentinos, E. Karagiannis, G. Antorkas, A. Antoniou, Y. Roussakis, N. Zamba, E. Georgiou</i>	
Dosimetric results of a randomised trial of HDR vs. LDR single dose BT of localised prostate cancer	PO - 2196
<i>G. Fröhlich (Hungary), P. Ágoston, K. Jorgo, T. Major, Z. Takácsi-Nagy, C. Polgár</i>	
Prostate inverse brachy boost - 10 Gy with implantation of gold markers – results and feasibility	PO - 2197
<i>M. Hetnał (Poland), A. Romaniszyn, K. Serwańska, M. Tumidajewicz, W. Burchardt</i>	
MRI guided nodular salvage Brachytherapy after Prostatectomy and EBRT. 3 years outcome	PO - 2198
<i>P. Willisch Santamaria (Spain), B. Andrade Alvarez, E. Cespon Outeda, L. Rojas Bua, M.L. Vazquez de la Torre Gonzalez, A. Lopez Medina, S. Montemuiño Muñiz, M. Martínez Agra, E. Castelao, V.M. Muñoz Garzon</i>	
Nadir PSA in prostate brachytherapy: relationship with biochemical control and clinical results.	PO - 2199
<i>S. Rodriguez Villalba (Spain), D. Guevara Barrera, J. Pérez-Calatayud, F. Blazquez Molina, M. Santos Ortega</i>	

Track: Radiobiology

Poster (Digital): Normal tissue radiobiology

-	Poster Stations
Universal DICOM NTCP Platform development and its first application to NTCP accuracy study <i>K. Choi (Korea Republic of), J. Kim, S. Lee, H. Chang, S. Cho</i>	PO - 2200
The functional mechanism of gut microbiota in acute radiation enteritis based on metabonomics <i>C. Ma (China), X. He, X. Xu, J. Zhou</i>	PO - 2201
Radioprotective effects of propolis and caffeic acid phenethyl ester in kidney tissue of rats <i>H. Alkış (Turkey), E. Demir, S. Taysi</i>	PO - 2202
Generation of synthetic radiation pneumonitis images using deep learning <i>Z. Wang (The Netherlands), J. Liu, Y. Zhang, Z. Zhang, A. Dekker, A. Traverso</i>	PO - 2203
Radiation affects bronchial epithelial progenitor function as assessed by organoid formation assay <i>M. Kuipers (The Netherlands), D. Ninaber, A. Slats, P. Hiemstra</i>	PO - 2204
Histopathological examination of proton radiation-induced late effects in mice legs <i>C. Bang Overgaard (Denmark), D. Mortensen, J. Randel Nyengaard, T. Tramm, B. Singers Sørensen</i>	PO - 2205
Radiopathological consequences of low energy X-rays overexposures: a dose effect study <i>M. Guillou (France), B. L'Homme, F. Trompier, A. Errabii, G. Gruel, Y. Prezado, M. Dos Santos</i>	PO - 2206
Hydrogen Peroxide (H ₂ O ₂) production in response to multiple beam irradiation of protons at UHDR <i>G. Delpon (France), V. Fiegel, M. Evin, Q. Mouchard, E. Craff, F. Haddad, C. Koumeir, L. Maigne, V. Métivier, V. Potiron, N. Servagent, S. Supiot, J. Vandendorre, G. Blain, S. Chiavassa</i>	PO - 2207

Track: Radiobiology

Digital Poster: Microenvironment

-	
The inflammatory environment analysis of acute radiation enteritis for cervical cancer <i>C. Ma (China), J. Zhao, X. Xu, X. Li, X. He, M. Zhang, Y. Gu, J. Zhou</i>	PO - 2208
Beneficial effects of combining hypofractionated radiation doses with hyperthermia temperature <i>F. Charlemagne Asonqanyi (Denmark), P. M. Sinha, M. K. Sitarz, P. B. Elming, M. R. Horsman</i>	PO - 2209
Exosomal miRNA in postoperative microenvironment of patients with breast cancer treated with IORT <i>K. Kulcenty (Poland), M. Lach, I. Piotrowski, W. Suchorska</i>	PO - 2210
Early data of a phase II study of PRA3.0 regimen for remedy of HER2-expressing advanced pan-cancer <i>M. Xu (China), R. Chen, Y. Kong, X. Zhao, L. Zhang</i>	PO - 2211

- Metabolic reprogramming using OXPHOS inhibitors alleviates hypoxia in tumor spheroids PO - 2212
A. Beerkens (The Netherlands), D. Boreel, F. Göllersch, P. Roelofs, S. Heskamp, G. Adema, P. Span, J. Bussink
- The impact of the tumour microenvironment on head and neck SCC cell viability and radiosensitivity. PO - 2213
A. Chander (United Kingdom), A. Pellon Rodriguez, V. Butterworth, T. Guerrero Urbano, A. Kong, M. Lei, I. Petkar, T. Ng, D. Moyes, M. Reis Ferreira, M. Reis Ferreira
- Dose Rate in External Beam Radiotherapy: Missing Piece of the Puzzle? PO - 2214
M.T. Yilmaz (Turkey), M.E. Gedik, A. Gok, A. Caglayan, F.Y. Yedekci, S. Aydin Dilsiz, G. Gunaydin, A. Akyol, P. Hurmuz
- 3D bioprinting of breast cancer and its stroma: tool to decrypt cell interactions upon radiotherapy PO - 2215
T. Desigaux (France), L. Comperat, N. Dusserre, M. Stachowicz, H. Oliveira, J. Fricain, F. Paris
- frequency and phenotypes of CD8+T-cells and DCs are prognostic in HNSCC patients after radiotherapy PO - 2216
J. Kirchner (Germany), I. Plesca, A. Linge, S. Löck, M. Schmitz, M. Krause

Track: Radiobiology

Poster (Digital): Tumour radiobiology

- | | Poster Stations |
|---|-----------------|
| - | |
| Supplemented gut bacteria effect the viability and radiosensitivity of bladder tumour cells in vitro PO - 2217
<u>T. Lumsden (United Kingdom)</u> , A. Moomin, S. Hay, A. Kiltie | |
| RNAi-mediated silencing of PSMA7 sensitizes GBM cells to ionizing radiation and temozolomide PO - 2218
<u>C. Showalter (USA)</u> , T. Cui, E. Sebastian, P. Rajasekera, J. McElroy, A. Becker, J. Fleming, H. Manning, S.J. Haque, A. Chakravarti | |
| Radiosensitivity Index as potential marker of biological sex differences to radiation response PO - 2219
<u>L. Marignol (Ireland)</u> , D.R. Grimes | |
| Single cell sequencing is feasible in delineating chemoradiation resistance in rectal cancer PO - 2220
<u>M. Or (Australia)</u> , P. Sundaresan, J. Lai, B. Gloss, H. Shen, A. Sharma, H. Mahajan, N. Pathma-Nathan, T. El-Khoury, J. Toh, J. Jayamohan, M. Wong, A. Nagrial, E. Hau | |
| The effect of Ultra-High Dose-Rate Carbon ion irradiation to cell invasion on breast tumor cells. PO - 2221
<u>K. Oniwa (Japan)</u> , K. Minami, M. Yagi, S. Shimizu, M. Koizumi, K. Ogawa, T. Kanai | |
| In silico model for low dose hyper-radiosensitivity linking mutation induction and cell survival PO - 2222
<u>B. Madas (Hungary)</u> , S. Polgár | |
| Primary stem cell enriched sarcoma cell lines for radiobiological investigations PO - 2223
<u>F. Eckert (Austria)</u> , J. Palm, K. Ganser, J. Kolbensschlag, S. Sachsenmaier, H. Boesmueller, V. Potkrajcic | |

- Abiraterone and Enzalutamide sensitise response to radium-223 by suppressing key DNA repair proteins PO - 2224
T. Wright (United Kingdom), K. Prise, A. Cole, V. Dunne
- Characterization of the RBE of various photon radiation qualities on human cancer cell lines PO - 2225
N. Chabaytah (Canada), J. Babik, J. Li, B. Behmand, T. Connell, M. Evans, R. Ruo, H. Bekerat, S. A. Enger, T. Vuong
- Transcriptome profiling of tumour samples could predict radioresistance in glioblastoma patients PO - 2226
S. Serrano (Spain), G. Antelo, J. Balart, S. Comas, C. Ansón, C. Balañà, A.M. Soto Cambres, I. Valduvico, S. Villà, M. Mollà, C. Gomà
- Uncovering Proton Boron Capture Therapy: In-vitro Cell Irradiation and Monte Carlo Simulations PO - 2227
V.L. Jacobsen (Denmark), J.G. Johansen, B.S. Sørensen, H.O.U. Fynbo, M. Sitarz, A.T. Frederiksen, N. Bassler
- Biodegradable nanomedicine for imaging-guided RT enhancement PO - 2228
C. de Faria (Italy), A. Spinelli, R. Vago, M. Bissoli, V. Amendola
- Five silver atoms clusters enhance radiation sensitivity of pancreatic and glioblastoma cell lines PO - 2229
K. Rosiak-Stec (United Kingdom), W. Waissi, M. Treder, A. Chalmers
- Proposing a radiobiological assay using videomicroscopy to dynamically track single cell response PO - 2230
F. Paris (France)
- Ex vivo response markers for radiotherapy treatment personalization of oropharyngeal cancer patients PO - 2231
I. Lauwers (The Netherlands), K. Pachler, G. Verduijn, A. Sewnaik, J. Hardillo, D. Monsereez, S. Keereweer, D. van Gent, M. Hoogeman, M. Capala, S. Petit
- Prediction of clonogenic survival following spatial fractionation - a novel 2D quadrat analysis PO - 2232
D. Arous (Norway), J. Larsen Lie, N. Frederike Jeppesen Edin, E. Malinen
- Reintroducing free radical hydrogen peroxide as potent radiosensitizer in solid tumors PO - 2233
F. Geirnaert (Belgium), I. Dufait, L. Kerkhove, A. Rifi, H. Vandenplas, K.L. Law, C. Corbet, T. Gevaert, M. De Ridder
- Genetic abnormalities as a predictive factor for neoadjuvant treatment in soft tissue sarcomas PO - 2234
M. Spalek (Poland), K. Bobak, A. Tysarowski, A. Szumera-Ciećkiewicz, K. Sokół, M. Wągradzki, H. Koseła-Paterczyk, P. Rutkowski, A.M. Czarnicka
- Photon and Proton irradiation in Patient-derived, 3D Soft Tissue Sarcoma models: A Pilot Study PO - 2235
S. Roohani (Germany)

Track: Radiobiology

Poster (Digital): Immuno-radiobiology

-	Poster Stations
Low dose fractionated radiotherapy enhances immunotherapy treatment outcomes <i>R. D'Alonzo (Australia), S. Keam, K. MacKinnon, A. Cook, A. Nowak, S. Gill, P. Rowshanfarzad, M. Ebert</i>	PO - 2236
Role of protein glycosylation in radiation-induced immune cell recruitment <i>O. Guipaud (France), F. Milliat, S. Ladaigue</i>	PO - 2237
Improving immunotherapy outcome in solid tumor by combining with other established cancer treatments <i>P. Sinha (Denmark), F.C. Asonganyi, S. Nygaard, M.K. Sitarz, P.B. Elming, M.R. Horsman</i>	PO - 2238
Remaining chromosomal and immunological changes years after prostate cancer brachy- and teletherapy <i>Z. Juranyi (Hungary), Z.S. Kocsis, K. Lumniczky, K. Balázs, P. Ágoston, G. Farkas, G.O. Sándor, G. Székely, T. Major, C. Pesznyák, G. Stelczer, K. Jorgo, L. Gesztesí, C. Polgár, G. Sáfrány</i>	PO - 2239
Caspases modulate immunogenic cell death and interferon signaling after radiation and ATR inhibition <i>A. Eek Mariampillai, S. Hauge, R. Syljuåsen (Norway)</i>	PO - 2240
Understanding cGAS activation: the key to unravelling the full potential of ablative therapies? <i>V. Mekers (The Netherlands), M. Looman, L. van den Boogaard, J. Bussink, M. Ansems, G. Adema</i>	PO - 2241
HDR-brachytherapy increases PD-L1 immune expression on prostate cancer (NCT04247217) <i>B. Vanneste (The Netherlands), E. Van Limbergen, L. Dubois, L. Wieten, M. Aarts, J. Van Roermund, T. Marcelissen, X. Li, I. Samarask, D. De Ruysscher</i>	PO - 2242
Development of a µCT radiomic platform to identify radio-immune signatures in murine tumor models <i>G. Mazzaschi (France), M. Dos Santos, P. Bergeron, L. Sitterle, M. Gerbé De Thoré, W. Liu, C. Clémenson, L. Meziani, A. Gonnelli, O. Bawa, A. Leroy, R. Sun, T. Henry, P. Laurent, L. Moron Dalla Tor, F. Quaini, M. Tiseo, F. Milliat, C. Robert, M. Mondini, E. Deutsch</i>	PO - 2243
The effect of hyperthermia and radiation therapy sequence on the immune phenotype of breast cancer <i>A. Sengedorj (Germany), M. Hader, B. Frey, E.M. Scutigliani, F. Cerna Lobo, P.M. Krawczyk, L. Heger, D. Dudziak, R. Fietkau, O.J. Ott, S. Scheidegger, S.M. Barba, U.S. Gaipl, M. Rueckert</i>	PO - 2244
In situ abscopal effect: synergistic efficacy of immunotherapy and partial tumor irradiation <i>P. Bergeron (France), M. Dos Santos, L. Sitterle, W. Liu, L. Meziani, M. Benadjaoud, J. Lavigne, M. Gerbé de Thore, C. Clémenson, C. Schott, E. Deutsch, F. Milliat, M. Mondini</i>	PO - 2245

Track: RTT

Poster (Digital): Patient care, preparation, immobilisation and IGRT verification protocols

-	Poster Stations
Real-time motion during 6D-Skull tracking: An Initial study from the first Cyberknife Center of UAE <i>T. Singh (United Arab Emirates), S. Yanek, S. Murphy, C. Antypas</i>	PO - 2246
Impact of SGRT setup over three-point localization in pelvic patients for two different IGRT workflow <i>S. Manna, S. Singh, P.K. Gupta (India), R. T</i>	PO - 2247
Patient positioning accuracy with surface guided radiotherapy <i>D. Mychko (Belarus), P. Dziameshka, A. Zverava, S. Siamkousky, N. Shautsou, M. Chyrets</i>	PO - 2248
Is photo biomodulation effective in managing oral mucositis in head and neck radiotherapy? <i>E. Smith (United Kingdom), V. Poole, E. Casey</i>	PO - 2249
SGRT for whole breast radiotherapy treatments: accuracy compared to conventional tattoo method <i>C. Marino (Italy), C. Gigliuto, E. Bonanno, G. Borzi, N. Cavalli, A. Girlando, A.M. Gueli, M. Pace, G. Stella, L. Zirone</i>	PO - 2250
Using the IntegraBite™ for improved setup and reduced swallowing motion in head and neck treatment <i>R. Butt (United Kingdom), A. Krishnan, D. Quince, K. Chiu, D. Megias</i>	PO - 2251
Evaluation of activated breath control and surface guided radiotherapy in breast cancer. <i>S. Raby (United Kingdom), C. Anandadas, T. Awofisoye, J. Kelly</i>	PO - 2252
The creation of a multidisciplinary care pathway for the management of head and neck cancer patients <i>A. Lastrucci (Italy), A. Breschi, E. Serventi, R. Zagni, R. Marianelli, S. Marzano, S. Moretti, R. Ricci</i>	PO - 2253
Real-world intrafraction motion assessment of Stereotactic Radiosurgery using HyperArc™ <i>L. Barry (Ireland), E. Bennett, T. O'Donovan, P. Kelly</i>	PO - 2254
Pharmaceutical prevention and management of radiation dermatitis in clinical practice <i>J.P. Laver (Germany), K. Laver, A. Glasmacher, G. Sarria, A. Böhner, Y.L. Laver, P. Feyer, B. Baumert, R. Baumann, D. Krug, F. Giordano, L.C. Schmeel</i>	PO - 2255
An evaluation of the suitability of decorated immobilisation in MRI and Proton Beam Therapy <i>J. O'Brien (United Kingdom), C. Gillies, C. Hardy</i>	PO - 2256
An evaluation of IGRT strategies in N1 prostate cancer patients receiving nodal irradiation <i>D. Fairweather (United Kingdom), W. Kinnaird, H. Grimes, R. Davda, L. Taylor, A. Webster</i>	PO - 2257
Risk assessment, surveillance and non-pharmaceutical prevention of acute radiation dermatitis	PO - 2258

K. Layer (Germany), J.P. Layer, A. Glasmacher, G. Sarria, A. Böhner, Y. Layer, P. Feyer, B. Baumert, A. Schendera, R. Baumann, D. Krug, F. Giordano, L.C. Schmeel

Analysis of Patient Cranial Angle and Intrafractional Stability in CyberKnife Robotic Radiosurgery PO - 2259

Y. Huang (Taiwan), C. Kang, S. Tsai, Y. Chen

The effectiveness of SGRT and innovative pelvis positioning gadget for prone rectum RT patients PO - 2260

X. Chen (China), A. Chen, W. Cai, X. He, Y. Wang, W. Diao, L. Liu, J. Zhu, X. Jiang

On the implementation of a clinical workflow for the Transit-Guided Radiation Therapy technique PO - 2261

E. Escudero (Spain), C. Castro, A. Latorre-Musoll, S. Serrano, G. Oses, G. Antelo, M. Mollà

GI factors, prevalence of and potential to affect motion during radiotherapy. A scoping review PO - 2262

S. Alexander (United Kingdom), H. McNair, U. Oelfke, A. Tree

Working with Lesbian, Gay, and Bisexual people to address their experiences in cancer care PO - 2263

G. Hill (United Kingdom), C. Bulley

Assessment of weight loss and setup reproducibility in nasopharyngeal cancer patients. PO - 2264

K.M. Lee (Singapore), S.Y. Goh, N. Liu, S.Y. Sin, H.J.H. Tan, E. Caluraud, S.N. Chen, S.M.M. Wong, E.P.P. Pang

Patient position verification for multi isocenter total body irradiation with VMAT PO - 2265

A. Zoetelief (The Netherlands), T. Harderwijk, B. Hoebe, M. Willemsen-Bosman, L. Krikke, E. Seravalli

A stop-motion animation aid to provide information to patients on radiotherapy for thoracic cancers PO - 2266

T. O'Donovan (Ireland), L. Delaney, A. Devine, D.A. England, P.M. McEntee, P.A. Barry, C. Harman, D.M.F. Jamaluddin

Does the presence of Magtrace preclude adaptive breast radiotherapy on an MR-Linac? PO - 2267

L. Davies (United Kingdom), L. McDaid, C. Anandadas, P. Fendall Amaro, R. Chuter, D. Woolf, C. Eccles

comparison of the pelvic movement with cone beam CT (CBCT), SGRT, and the CyberKnife x-ray cameras PO - 2268

R. Nachtigall (Germany), S. Exner, O. Bislich, F. Behrens, N. Seeto, B. Peters, F. Fehlaue

Bladder filling verification with bladder scan for prostate radiotherapy: how reproducible we are? PO - 2269

D.G. Bosetti (Switzerland), G.A. Pesce, S. Leva, F.M. Castronovo, T. Zilli, M. Coppotelli, S. Presilla, M.A. Piliero

Accuracy of a skull based automatic 6D match with kV-kV imaging on a Truebeam PO - 2270

S. Hoek (The Netherlands)

A predictive model to determine optimal breath-hold parameters in breast radiotherapy PO - 2271

D. Piro (Italy), F. Grusso, M. Aquilano, A. Boschetti, F. Catucci, A. D'Aviero, P. Gaias, M. Iezzi, M. Marras, S. Menna, D. Piccari, E. Pilloni, F. Preziosi, F. Quaranta, A. Re, N. Ulgheri, V. Verusio, C. Votta, V. Valentini, D. Cusumano, G.C. Mattiucci

- Uptake of the Noona System for patient reported outcomes & education 1-year after implementation PO - 2272
S. Graham (United Kingdom), N. Akar, A. Ward
- Comparison of immobilisation, imaging and set-up errors during head and neck radiotherapy PO - 2273
L. Hay (United Kingdom), L. Devlin, A. Duffton
- The impact of patient positioning lasers on setup accuracy for MR-Linac radiotherapy PO - 2274
L. Hogan (Australia), M. Jameson, D. Crawford, K. Biggerstaff, M. Picton, C. Tran, L. McKenzie, T. Liang, M. Carr, J. DeLeon, H. Tan, V. Batumalai
- Single-centre implementation of radiotherapy-dedicated bra for large and pendulous breast PO - 2275
S. Trivellato (Italy), M.C. Daniotti, P. Caricato, V. Pisoni, S. Terrevazzi, A. Mantovani, M. Castellano, E. Ierman, T. Brandolese, S. Meregalli, R.M. Niespolo, E. Bonetto, E. De Ponti, S. Arcangeli
- Importance of daily CT imaging in brachytherapy of cervical tumor patients PO - 2276
J. Papp (Hungary), M. Simon, E. Csiki, Á. Kovács
- Inter/intra-operator comparison study in daily CBCT for prostate IGRT with or without fiducials PO - 2277
L. De Cicco (Italy), L. Marzoli, R.M. Mancuso, R. Lorusso, E. Petazzi, A.G. Lanceni, E. Della Bosca, S. Buttignol, A. Starace, B. Bortolato, C. Verusio
- A pilot study on upright breast RT: positioning volunteers using a robotic chair & specialised bras PO - 2278
T. Underwood (United Kingdom), J. McNamara, J. Nunn, N. Schreuder, H. Probst
- Preliminary analysis of subcutaneous tissue fibrosis and dose-volume relationships for limb sarcoma PO - 2279
R. Simoes (United Kingdom), S. Gulliford, B. Seddon, M. Robinson, S. Forsyth, L. White, H. Dehbi, P. Gaunt, A. Hughes, E. Miles, P. Hoskin, K. Harrington, A. Miah
- Use of Chabner XRT® radiation bra in large-breasted patients: a preliminary experience PO - 2280
M. di Benedetto (Italy), F. Cucciarelli, L. Vagnoni, E. Arena, C. Mariucci, C. Di Carlo, E. Galofaro, M.V. Agbaje Olufemi, V. Panni, M. Parisotto, L. Vicenzi, F. Fenu, M. Valenti, G. Mantello
- MRgRT with an MR scanner for simulation: benefits for patients treated with MRL/conventional LINAC PO - 2281
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