

ESTRO
2021

Scientific Programme

**Optimal
radiotherapy
for all**

**ESTRO
ANNUAL
CONFERENCE**

27 - 31 August 2021

Onsite in Madrid, Spain & Online



Saturday
28 August
2021



Track: Radiobiology

Teaching lecture: The microbiome: Its role in cancer development and treatment response

Saturday, 28 August 2021 08:00 - 08:40

N104

Chair: Marc Vooijs

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08:00 **The microbiome: Its role in cancer development and treatment response**
A. Facciabene (USA)

SP - 0004

Track: Clinical

Teaching lecture: Breast reconstruction and radiotherapy

Saturday, 28 August 2021 08:00 - 08:40

Plenary

Chair: Philip Poortmans

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08:00 **Breast reconstruction and radiotherapy**
O. Kaidar-Person (Israel)

SP - 0005

Track: Clinical

Teaching lecture: Neurocognitive changes following radiotherapy for primary brain tumours

Saturday, 28 August 2021 08:00 - 08:40

Room 1

Chair: Brigitta G. Baumert

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08:00 **Evaluation and care of neurocognitive effects after radiotherapy**
M. Klein (The Netherlands)

SP - 0006

08:20 **Imaging biomarkers of dose-induced damage to critical memory regions**
A. Laprie (France)

SP - 0007

Track: Physics

Teaching lecture: Independent dose calculation and pre-treatment patient specific QA

Saturday, 28 August 2021 08:00 - 08:40

Room 2.1

Chair: Kari Tanderup

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08:00 **Independent dose calculation and pre-treatment patient specific QA**
P. Carrasco de Fez (Spain)

SP - 0008

Track: Physics

Teaching lecture: Diffusion MRI: How to get started

Saturday, 28 August 2021 08:00 - 08:40

Room 2.2

Chair: Tufve Nyholm

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Chair: Jan Lagendijk

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08:00 **Diffusion MRI: How to get started**

SP - 0009

R. Tijssen (The Netherlands)

Track: RTT

Teaching lecture: The role of RTT leadership in advancing multi-disciplinary research

Saturday, 28 August 2021 08:00 - 08:40

N103

Chair: Sophie Perryck

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08:00 **The role of RTT leadership in advancing multi-disciplinary research**

SP - 0010

M. Velec (Canada)

Track: Brachytherapy

Teaching lecture: New developments in skin cancers treatment: is brachytherapy the new frontier especially for the face?

Saturday, 28 August 2021 08:00 - 08:40

N105-N106

Chair: Luca Tagliaferri

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08:00 **New developments in skin cancers treatment: is brachytherapy the new frontier especially for the face?**

SP - 0011

P. Wojcieszek (Poland)

Track: Interdisciplinary

Symposium: Education in radiation oncology

Saturday, 28 August 2021 08:45 - 10:00

N101-102

Chair: Jesper Grau Eriksen & TBC

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08:45 **ESTRO Curricula done and published - Now what?**

SP - 0012

M. Giuliani (Canada)

09:03 **How to design a training programme that actually train the resident** SP - 0013
B. Millar (Canada)

09:21 **Does work-place based assessment deliver on its promise?** SP - 0014
S. Turner (Australia)

09:39 **The trainee perspective - What do we really need for good training?** SP - 0015
J. Heukelom (The Netherlands)

Track: Radiobiology

Joint symposium: ESTRO-EACR: How does cancer cell metabolism affect the radiation response and vice versa?

Saturday, 28 August 2021 08:45 - 10:00

N104

Chair: Caroline Dive -

Chair: Anthony Chalmers -

08:48 **Tumour metabolic adaptations as biomarkers for radiation oncology** SP - 0016
O. Maddocks (United Kingdom)

09:06 **Application of metabolic imaging for the predication and assessment of treatment response** SP - 0017
J. Bussink (The Netherlands)

09:24 **Radiation-driven tumour metabolic reprogramming** SP - 0018
T. Burns (UK)

09:42 **Targeting tumour metabolism for enhancing radiotherapy response** SP - 0019
L. Kunz-Schughart (Germany)

Track: Clinical

Symposium: New endpoints for early breast cancer - Less is more?

Saturday, 28 August 2021 08:45 - 10:00

Plenary

Chair: Elisabetta Bonzano -

Chair: Dorota Gabrys -

08:45 **Health-related quality of life - Primary or surrogate endpoint?** SP - 0020
I. Meattini (Italy)

09:03	Less surgery or less radiation therapy in early stage breast cancer? <i><u>P. Poortmans (Belgium)</u></i>	SP - 0021
09:21	Tumour bed boost in breast cancer - When, whom, how? <i><u>M. Krause (Germany)</u></i>	SP - 0022
09:39	Less endocrine therapy for very low-risk patients? <i><u>E. Nowicka (Poland)</u></i>	SP - 0023

Track: Clinical

Symposium: Radiosurgery for central nervous system disorders: Beyond glioblastoma and metastases

Saturday, 28 August 2021 08:45 - 10:00 Room 1

Chair: Sławomir Blamek -

Chair: Maximilian Niyazi -

08:45 **Radiotherapy for vestibular schwannoma and meningioma** SP - 0024
E. Herrmann (Switzerland)

09:03 **SRS for Parkinson's disease and trigeminal neuralgia - in memoriam Leszek Miszczyk** SP - 0025
L. Miszczyk (Poland), G. Głowacki, A. Roch-Zniszczoł, D. Larysz, M. Stąpór-Fudzińska, B. Goc, S. Blamek, A. Rożek

09:21 **Primary and repeat radiosurgery for functioning and nonfunctioning pituitary adenoma** SP - 0026
G. Minniti (Italy)

09:39 **Can we treat epilepsy and obsessive-compulsive disorder with radiation?** SP - 0027
Sameer Sheth (USA)

Track: Physics

Symposium: Clinical implementation of in vivo dosimetry

Saturday, 28 August 2021 08:45 - 10:00 Room 2.1

Chair: Elise Konradsson -

Chair: Cristina Garibaldi -

08:45	Large scale clinical implementation of in vivo dosimetry - What value does it bring? <i><u>E. Bossuyt (Belgium)</u></i>	SP - 0028
09:10	In vivo dosimetry in EBRT: Requirements and future directions for research, development, and clinical practice <i><u>I. Olaciregui Ruiz (The Netherlands)</u></i>	SP - 0029
09:35	In vivo dosimetry in brachytherapy: Requirements and future directions for research, development and clinical practice <i><u>K. Tanderup (Denmark), G. Fonseca, J.G. Johansen, R. Smith, L. Beaulieu, S. Beddar, G. Kertzscher, F. Verhaegen</u></i>	SP - 0030

Track: Physics

Symposium: The use of MR in radiotherapy

Saturday, 28 August 2021 08:45 - 10:00 Room 2.2

Chair: Marielle Philippens, Ulke van der Heide & Emilia Persson -

08:45	Does MR-only treatment planning live up to its expectations? <i><u>T. Nyholm (Sweden)</u></i>	SP - 0147
09:10	Real-time adaptation under MR-guidance <i><u>J. Bertholet (Switzerland)</u></i>	SP - 0148
09:35	A roadmap for imaging biomarker studies on MR-linac systems <i><u>P. van Houdt (The Netherlands)</u></i>	SP - 0149

Track: RTT

Symposium: RTT-led radiomics research

Saturday, 28 August 2021 08:45 - 10:00 N103

Chair: Ingrid Kristensen -

Chair: Sophie Perryck -

08:45	Personalised breast cancer treatment using radiomics <i><u>W. Tran (Canada)</u></i>	SP - 0035
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09:10 **MR radiomics in prostate cancer** SP - 0036
M. Leech (Ireland)

09:35 **Head and neck radiomics in a toxicity prediction model** SP - 0037
A. Duffton (United Kingdom), W. Nailon, T. Berger, D. Noble, C. Paterson

Track: Brachytherapy

Debate: Prostate cancer: Short treatments by SBRT or brachytherapy?

Saturday, 28 August 2021 08:45 - 10:00

N105-N106

Chair: Barbara Jereczek-Fossa -

Chair: Carl Salembier -

08:45 **SBRT** SP - 0038
G. Marvaso (Italy)

09:10 **Brachy** SP - 0039
P. Hoskin (United Kingdom)

09:35 **Rebuttals + Discussion** SP - 0040

Track: Physics

Poster highlights: Poster Highlights 1: Treatment planning 1

Saturday, 28 August 2021 08:45 - 09:45

Online Stream 1

Chair: Christopher Kurz -

08:45 **Introducing a probabilistic target presence in expected-value optimization** PH - 0041
G. Buti (Belgium), K. Souris, A.M. Barragan-Montero, J.A. Lee, E. Sterpin

08:53 **Dosimetric impact of auto segmentation on treatment planning in IMRT for prostate patients** PH - 0042
M. Kawula (Germany), D. Purice, M. Li, G. Vivar, S. Ahmadi, K. Parodi, C. Belka, G. Landry, C. Kurz

- 09:01 **Robustness of Wide Tangents and VMAT through simulations and CBCT delivered dose in breast cancer** PH - 0043
J. Gleeson (United Kingdom), M. Toomey, K. Hutchinson, H. Chantler
- 09:09 **Robust planning of VMAT for breast cancer including loco-regional lymph nodes** PH - 0044
M. Kjeldsen (Denmark)
- 09:17 **Comparing robustness of margin and robustly optimised plans to anatomical deformations in H&N** PH - 0045
J. Robbins (United Kingdom), E. Vasquez Osorio, A. Green, M. van Herk
- 09:25 **Benefit of 4D robustly optimized proton plans for NSCLC patients with intrafractional motion > 5mm** PH - 0046
S. Spautz (Germany), L. Haase, M. Tschiche, S. Makocki, E.G. Troost, C. Richter, K. Stützer
- 09:33 **CTV and OAR robustness of clinical neuro IMPT: dosimetric impact of the DUPROTON robustness protocol** PH - 0047
J. Rojo Santiago (The Netherlands), S.J. Habraken, D. Lathouwers, A. Méndez Romero, Z. Perko, M.S. Hoogeman

Track: Clinical

Poster highlights: Poster Highlights 2: Head and neck 1

Saturday, 28 August 2021 08:45 - 09:45

Online Stream 2

Chair: Pierluigi Bonomo -

- 08:45 **Pattern of failure after curative (C-)RT in HNSCC: data from the phase III DAHANCA19 study** PH - 0048
M.H. Kristensen (Denmark), C.R. Hansen, R. Zukauskaitė, A.I.S. Holm, E.S. Hinsby, C. Maare, J. Johansen, H. Primdahl, Å. Bratland, C.A. Christensen, M. Andersen, J. Overgaard, J.G. Eriksen
- 08:53 **Reduction of GTV to CTV radiation margin in head and neck squamous cell carcinoma is oncological safe and significantly reduced acute and late radiation-related toxicity** PH - 0049
A. Al-Mamgani (The Netherlands), R. Kessels, A. Navran, O. Hamming-Vrieze, C.L. Zuur, J.P. de Boer, M.C. Jonker, T. Janssen, J. Sonke, C.A. Marijnen
- 09:01 **Detailed analysis of lymphatic progression patterns for oropharyngeal squamous cell carcinoma** PH - 0050
B. Pouymayou (Switzerland), J. Hoffmann, R. Ludwig, M. Guckenberger, P. Balermipas, J. Unkelbach

- 09:09 **Outcomes after definitive (C)RT in HPV+ OPC: Largescale comparison of two population-based cohorts** PH - 0051
P. Lassen (Denmark), S.H. Huang, J. Su, B. O'Sullivan, J. Waldron, M. Andersen, H. Primdahl, J. Johansen, C. Andrup Kristensen, E. Andersen, J. Eriksen, C. Rønn Hansen, J. Alsner, J. Lilja-Fisher, S. V. Bratman, J. Ringash, J. Kim, A. Hope, A. Spreafico, J. de Almeida, W. Xu, J. Overgaard
- 09:17 **Do head and neck cancer patients in randomized trials represent the population in daily practice?** PH - 0052
J. Kaanders (The Netherlands), S. van den Bosch, J. Kleijnen
- 09:25 **NBTXR3 activated by SBRT combined with nivolumab or pembrolizumab in advanced cancers: phase I trial** PH - 0053
C. Shen (USA), J. Frakes, J. Niu, A. Rosenberg, J. Weiss, J. Caudell, K. Jameson, P. Said, T. Seiwert
- 09:33 **Re-Irradiation in head & neck cancer - a pooled analysis of 253 individual cases** PH - 0054
J. Roesch (Germany), M. Oertel, A. Fabian, M. Höck, J. von der Grün, A. Löser, C. Süß, M. Vinsensia, B. Tamaskovics, S. Heß, M. Waltenberger, S. Wegen, M. Trommer, M. Mäurer, D. Medenwald, A. Rühle, L. Käsmann, D. Fleischmann, S. Dobiasch, M. Hecht

Track: Interdisciplinary

Proffered papers: Proffered papers 1: Health services and health economics

Saturday, 28 August 2021 10:30 - 11:30

N101-102

Chair: TBC

- 10:30 **COVID-19 impact on working conditions for researchers in radiation oncology: a qualitative analysis** OC - 0055
J. Dhont (The Netherlands), C.A. Pittens, V. Petit-Steeeghs, P. Franco, L. Dubois, L. Mullaney, S. Petit, J. Bertholet
- 10:40 **Cost of the external beam radiotherapy in Catalonia (Spain): an application of the ESTRO-HERO model** OC - 0056
J. Corral, M. Algara, C. Muñoz-Montplet, A. Eraso, J. Giralt, J.A. Espinàs, J. Solà, N. Defourny, Y. Lievens, J.M. Borras (Spain)
- 10:50 **Report of Radiotherapy and Cancer Status in Latin America: Tailoring a Projection to 2030** OC - 0057
G.R. Sarria (Germany), D.A. Martinez-Perez, R. Del Castillo, A. Salgado, L. Pinillos, A. Felix, I. Bobadilla, G. Ferraris, J. Carmona, P. Aquino, L. Aviles, L. Ricagni, N. Isa, C. Flores, B. Li, M. Castilho, A. Polo, E.H. Zubizarreta, F.A. Giordano, G.J. Sarria
- 11:00 **Impact of increased hypofractionation on treatment cost** OC - 0058
N. Defourny (United Kingdom), K. Spencer, D. Tunstall, V. Cosgrove, K. Kirkby, A. Henry, Y. Lievens, P. Hall

11:10 **Multidisciplinary Tumor Board Smart Virtual Assistant in Locally Advanced Cervical Carcinoma** OC - 0059
G. Macchia (Italy), G. Ferrandina, S. Patarnello, R. Autorino, C. Masciocchi, V. Pisapia, C. Calvani, C. Iacomini, A. Cesario, B. Gui, V. Rufini, L. Boldrini, G. Scambia, V. Valentini

11:20 **Clinical adoption patterns of 0.35 Tesla MR-guided radiation therapy in Europe and Asia** OC - 0060
M.A. Clark (USA), B. Slotman, E. Ozyar, M. Kim, J. Itami, A. Tallet, J. Debus, R. Pfeffer, P. Gentile, Y. Hama, N. Andratschke, D. Azria, P. Camilleri, C. Belka, M. Quivrin, B. Kim, A. Pedersen, M. van Overeem Felter, K. Young, J.H. Kim, V. Valentini

Track: Radiobiology

Proffered papers: Proffered Papers 2: Tumour microenvironment

Saturday, 28 August 2021 10:30 - 11:30

N104

Chair: Michael Horsman -

Chair: François Paris -

10:30 **Radiotherapy affects the morphology and phenotype of HNSCC derived Cancer associated fibroblasts** OC - 0061
M. Ansems (The Netherlands), M. Dotinga, V. Mekers, A. Beerkens, K. Strepj

10:40 **Potential predictive biomarkers for Nimorazole-modified radiochemotherapy in head and neck cancer** OC - 0062
M.J. Besso (Germany), V. Bitto, L. Koi, W. Hadiwikarta, R. Euler-Lange, M. Bonrouhi, A. Linge, M. Krause, I. Kurth, M. Baumann

10:50 **Role of microenvironment on the post-irradiation regenerative potential of salivary gland stem cells** OC - 0063
Y. Wu (The Netherlands), S. Pringle, U. Brouwer, X. Peng, A. Vissink, L. Barazzuol, R.P. Coppes

11:00 **Microbeam radiosurgery enhances drug delivery across the vascular wall: results from 2 animal models** OC - 0064
C. Fernandez (Switzerland), V. Trappetti, J. Fazzari, O. Martin, V. Djonov

11:10 **Overcoming radioresistance with the hypoxia-activated prodrug CP-506: a pre-clinical in vivo study** OC - 0065
A. Yaromina (The Netherlands), L. Koi, A. van der Wiel, N.G. Lieuwes, J. Theys, L. Dubois, M. Krause, P. Lambin

11:20 **Heterogeneity of a hypoxia gene signature within the dominant tumor lesion in prostate cancer** OC - 0066
U.B. Salberg (Norway), V. Eide Skingen, C. Sæten Fjeldbo, T. Hompland, L. Vlatkovic, K.H. Hole, T. Seierstad, H. Lyng

Track: Clinical

Proffered papers: Proffered papers 3: Breast

Saturday, 28 August 2021 10:30 - 11:30

Plenary

Chair: Dorota Gabrys

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Chair: Icro Meattini

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10:30 **De-escalation of radiation therapy after primary chemotherapy in cT1-2N1 breast cancer (RAPCHEM)** OC - 0067

S. de Wild (The Netherlands), L. de Munck, J. Verloop, T. van Dalen, P. Elkhuizen, R. Houben, E. van Leeuwen, S. Linn, R. Pijnappel, P. Poortmans, L. Strobbe, J. Wesseling, A. Voogd, L. Boersma

Elective internal mammary node irradiation in women with node-positive breast cancer OC - 0068

Withdrawn

10:40 **Quality assessment of locoregional breast cancer radiotherapy in the international SENOMAC-trial** OC - 0069

S. Alkner (Sweden), D. Lundstedt, E. Wieslander, M. Berg, I. Kristensen, J. Ahlgren, B. Offersen, J. de Boniface, H. Dahl Nissen, O.B.O.T.S.T.G. .

10:50 **Patient-reported symptoms of late radiation toxicity in breast cancer patients** OC - 0070

D. Mink van der Molen (The Netherlands), M. Batenburg, A. Doeksen, T. van Dalen, E. Schoenmaeckers, R. Bijlsma, A. Witkamp, M. Ernst, M. Sier, W. Maarse, D. van den Bongard, F. van der Leij, H. Verkooijen

11:00 **Safety and efficacy of concomitant radiation and CDK4/6 inhibitors in breast cancer patients** OC - 0071

L. Visani (Italy), I. Ratosá, E. Scoccimarro, C. Becherini, C. Saieva, I. Desideri, V. Scotti, M. Ozarem, D. Ribnikar, M. Aquilano, C. Cerbai, L. Orzalesi, M. Bernini, L. Sanchez, J. Nori, S. Bianchi, I. Meattini, L. Livi

11:10 **Hypofractionated radiotherapy for breast cancer: Findings from an international ESTRO-GIRO survey** OC - 0072

M. Mushonga (Canada), J. Weiss, A.Z. Liu, O. Mohamad, Y. Lievens, D. Rodin

Track: Clinical

Proffered papers: Proffered papers 4: CNS

Saturday, 28 August 2021 10:30 - 11:30

Room 1

Chair: Giuseppe Minniti & TBC

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10:30	Reirradiation of brain metastases with SRS after local or marginal recurrence from prior SRS	OC - 0073
	<i>R. Kowalchuk (USA), A. Niranjana, C. Lee, H. Yang, R. Liscak, K. Guseynova, M. Tripathi, N. Kumar, S. Peker, Y. Samanci, J. Hess, V. Chang, C. Iorio-Morin, D. Mathieu, S. Pikis, Z. Wei, L. Lunsford, D. Trifiletti, J. Sheehan</i>	
10:40	Different pre-operative glioma location patterns in patients with or without post-radiation injury	OC - 0074
	<i>A. van der Boog (The Netherlands), S. David, A. Steennis, J.W. Dankbaar, T. Snijders, P. Robe, J. Verhoeff</i>	
10:50	Dual FET PET-guided SIB in radiotherapy of newly diagnosed glioblastoma- a pilot study.	OC - 0075
	<i>M. Harat (Poland), M. Blok, I. Wiatrowska, B. Małkowski</i>	
11:00	Meningioma I° involves optical structures: does proton therapy lead to subjective changes in vision?	OC - 0076
	<i>B. Flechl (Austria), L. Konrath, E. Hug, C. Lütgendorf-Caucig, M. Achtaewa, M. Pelak, A. Schallerbauer-Peter, J. Zimmermann, M. Sebek, C. Svardal, M. Mumot, U. Mock, R. Konstantinovic, P. Fossati, P. Georg</i>	
11:10	High-dose post-operative Protontherapy to improve the outcome of high-grade meningiomas	OC - 0077
	<i>K. Holub (Spain), S. Froelich, H. Adle-Biassette, J. Guichard, K. Champeaux, A. Carpentier, K. Mokhtari, L. Feuvret, G. Lot, S. Bolle, C. Alapetite, S. Helfre, F. Goudjil, I. Pasquie, C. Nauraye, R. El Ayachy, V. Calugaru, R. Dendale, H. Mammar</i>	
11:20	Impact of surgery and PET-guided radiotherapy in therapy management of cavernous sinus meningioma	OC - 0078
	<i>I. Hadi (Germany), A. Biczok, N. Terpolilli, J. Thorsteinsdottir, R. Forbrig, N.L. Albert, P. Yanchovski, B. Zollner, R. Bodensohn, S. Corradini, P. Bartenstein, C. Belka, J. Tonn, C. Schichor, M. Niyazi</i>	

Track: Physics

Proffered papers: Proffered Papers 5: Applied dosimetry

Saturday, 28 August 2021 10:30 - 11:30

Room 2.1

Chair: Frank Verhaegen

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Chair: Igor Olaciregui Ruiz

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10:30	EPID in vivo dosimetry implementation world-wide: results of an ESTRO survey	OC - 0079
	<i>M. Esposito, J.B. van de Kamer, E. Bossuyt, S.F. Kry, D. Verellen, C. Clark, <u>N. Jornet Sala (Spain)</u></i>	

10:40	First theoretical determination of relative biological effectiveness of very high energy electrons	OC - 0080
	<i><u>R. Delorme (France), T. Masilela, C. Etoh, F. Smekens, Y. Prezado</u></i>	
10:50	Blood dose calculation model: proton therapy versus photon therapy	OC - 0081
	<i><u>A. Hammi (Germany)</u></i>	
11:00	Impact of intra-fraction deformations on proton therapy measured with a 3D silicone-based dosimeter	OC - 0082
	<i><u>S. Vindbæk Jensen (Denmark), P. Balling, L. P. Muren, J. B. B. Petersen, L. B. Valdetaro, P. R. Poulsen</u></i>	
11:10	QA of DL-based dose calculations: determination of the application range	OC - 0083
	<i><u>G. Tsekas (The Netherlands), G. Bol, B.W. Raaymakers, C. Kontaxis</u></i>	
11:20	Validation of a source tracking method for brachytherapy in vivo dosimetry using a realistic phantom	OC - 0084
	<i><u>T. van Wagenberg (The Netherlands), G. Fonseca, R. Voncken, C. Van Beveren, F. Verhaegen</u></i>	

Track: Physics

Proffered papers: Proffered Papers 6: Adaptive RT: MR-guided and SBRT

Saturday, 28 August 2021 10:30 - 11:30

Room 2.2

Chair: Jan Lagendijk

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Chair: Rob Tijssen

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10:30	Development and quantitative evaluation of AI-based pelvic MRI autocontouring for adaptive MRgRT	OC - 0085
	<i><u>M. Nachbar (Germany), M. Lo Russo, S. Boeke, D. Wegener, J. Boldt, S. Butzer, T. Roque, A. Lombard, L. De Vitry, N. Paragios, D. Zips, D. Thorwarth</u></i>	
10:40	PTV margins for intrafraction motion in MRI-guided online adaptive radiotherapy in rectal cancer	OC - 0086
	<i><u>C. Kensen (The Netherlands), T. Janssen, A. Betgen, L. Wierseman, F. Peters, P. Remeijer, C. Marijnen, U. Van der Heide</u></i>	
10:50	Benchmarking daily plan adaptation on the Unity MR-Linac	OC - 0087
	<i><u>T. Jagt (The Netherlands), T. Janssen, A. Betgen, L. Wiersema, R. Verhage, S. Garritsen, T. Vijlbrief-Bosman, P. de Ruiter, F. Peters, P. Remeijer, C. Marijnen, J. Sonke</u></i>	

11:00 **Margin calculation for multiple metastases in single-isocenter lung SBRT** OC - 0088
J. van Timmeren (Switzerland), M. Hoogeman, S. Ehrbar, M. Mayinger, N. Andratschke, M. Guckenberger, S. Tanadini-Lang

11:10 **Impact of using uncorrected CT-based DIR-propagated autocontours on online ART for pancreatic SBRT** OC - 0089
A. Magallón Baro (The Netherlands), M. Milder, P. Granton, W. den Toom, J. Nuyttens, M. Hoogeman

11:20 **Dosimetric evaluation of an online adaptive strategy for prostate SBRT** OC - 0090
J. Calvo-Ortega (Spain), J. Torices-Caballero, S. Moragues-Femenia, C. Laosa-Bello, J. Casals-Farran

Track: RTT

Proffered papers: Proffered Papers 7: Advances in RT imaging and contouring

Saturday, 28 August 2021 10:30 - 11:30

N103

Chair: Bartosz Bak -

Chair: Aileen Duffton -

10:30 **Head Coil Head Support: in support of the head and the head coil** OC - 0091
W. Frans (The Netherlands), M. Frantzen-Stenecker, J. Osinga, U.A. van der Heide, R. Navest

10:40 **Evaluation of MRI sequences for image guided radiotherapy in a MR-only radiotherapy planning pathway** OC - 0092
R. Brooks (United Kingdom), R. Pearson, K. Pilling, S. West, B. Ormston, A. Beardmore, D. Redding, J. Wyatt

10:50 **Automated organ at risk delineation in T2w head and pelvis MR images for MR-only radiation therapy** OC - 0093
L. Ruskó (Hungary), V. Czipczer, B. Kolozsvári, B. Deák-Karancsi, R. Czabány, B. Gyalai, D. Hajnal, Z. Karancsi, M.E. Capala, G.M. Verduijn, R. Pearson, J.J. Wyatt, E. Borzasi, G. Kelemen, R. Kószó, V. Paczona, Z. Végyváry, C. Cozzini, T. Tan, R. Maxwell, J.A. Hernandez Tamames, S.F. Petit, H. Mccallum, K. Hideghéty, F. Wiesinger

11:00 **Real-world performance of neural network segmentation of Head and Neck Contours** OC - 0094
M. Butler (USA), A. Kruzer, A. Nelson

11:10 **ADC predicts persistent cervical lymph node disease following curative (chemo)radiotherapy** OC - 0095
A. Salah (United Kingdom), Y. Jain, S. Bonington, A. France, D. Buckley, C. Eccles, A. McPartlin

11:20 **Does inter-observer variation affect functional imaging quantification in DW-MRI for HNSCC?** OC - 0096
L. Hay (United Kingdom), I. McCrea, A. Duffton, P. McLoone, C. Paterson

Track: Brachytherapy

Symposium: Highlights of WCB 2021

Saturday, 28 August 2021 10:30 - 11:30

N105-N106

Chair: Christian Kirisits -

Chair: Bradley Pieters -

10:30 **Intensity modulated HDR ocular brachytherapy using Yb-169 and Se-75** SP - 0098
J. Dupere (USA)

10:40 **Tumor regression of cervical cancer during chemoradiation evaluated by the T-score in EMBRACE I** SP - 0099
J.C. Lindegaard (Denmark)

10:50 **APBI versus very APBI in the elderly: a comparison analysis of oncological outcome and late toxicity** SP - 0100
J-M- Hannoun-Levi (France)

11:00 **Comparative study of brachytherapy vs. radical cystectomy for cT1-2 muscle-invasive bladder cancer** SP - 0101
B. Pieters (The Netherlands)

11:10 **Development of a dynamic-shielding intensity modulated endorectal brachytherapy applicator** SP - 0102
A. Thibodeau-Antonacci

Track: Physics

Poster highlights: Poster Highlights 3: Outcome modelling

Saturday, 28 August 2021 10:30 - 11:30

Online Stream 1

Chair: Ivan Richter Vogelius -

10:30 **Outcome prediction for the prognosis of head and neck cancer patients based on deep learning** PH - 0103
J. Guo, T. Zhai, A. van der Schaaf, R. J.H.M. Steenbakkens, S. Both, J. A. Langendijk, P. M.A. van Ooijen, N. M. Sijtsema (The Netherlands)

- 10:38 **[18F]-FDG PET radiomics to predict survival in locally advanced cervical cancer and anal carcinomas** PH - 0104
S. Niyoteka (France)
- 10:46 **Prediction of clinical complete response in rectal cancer using clinical and radiomics features** PH - 0105
P. Mbanu (United Kingdom), E. Vasquez Osorio, H. Mistry, J. Mercer, L. Malcomson, R. Kochhar, A. Renehan, M. van Herk, M. Saunders
- 10:54 **FDG-PET features help predict distant metastases in oropharyngeal cancer patients with definitive RT** PH - 0106
P. Brodin (USA), J. Lubin, J. Eichler, C. Velten, S. Zhu, S. Saha, W. Tomé, C. Guha, S. Kalnicki, R. Kabarriti, M. Garg
- 11:02 **A dynamic model for lymphatic progression of cancer through the head & neck** PH - 0107
R. Ludwig (Switzerland), B. Pouymayou, P. Balermipas, J. Unkelbach
- 11:10 **New dose-volume constraints for patient-reported acute bowel toxicity symptoms in whole pelvis IMRT** PH - 0108
A. Bresolin, A. Faiella, E. Garibaldi, F. Munoz, D. Cante, V. Vavassori, J.M. Waskiewicz, G. Girelli, B. Avuzzi, E. Villa, A. Magli, B. Noris Chiorda, M. Gatti, L. Ferella, A. Maggio, V. Landoni, S. Aimonetto, C. Sini, T. Rancati, G. Sanguineti, R. Valdaghi, N. Di Muzio, C. Cozzarini, C. Fiorino (Italy)
- 11:18 **Reactive Feeding Tube Insertion Relates to Dose to Tongue Subunits and Brainstem** PH - 0109
E.M. Vasquez Osorio (United Kingdom), A. Abravan, A. Green, A. Green, V. Kota, S. Gaito, A. McPartlin, M. van Herk

Track: Clinical

Poster highlights: Poster Highlights 4: Lower GI (colon, rectum, anus)

Saturday, 28 August 2021 10:30 - 11:30

Online Stream 2

Chair: Florence Huguet -

- 10:30 **Surgical Tolerability after Chemoradiotherapy. Preliminary Data of phase III OPERA in rectal cancer** PH - 0110
J. Gerard (France), N. Barbet, B. Thamphya, A. Dhadda, N. Magné, L. Mineur, M. Deberne, T. Zilli, A. Sun Myint
- 10:38 **Impact of body-mass index on multimodal treatment and outcome in locally advanced rectal cancer** PH - 0111
M. Diefenhardt (Germany), E.B. Ludmir, R. Hofheinz, M. Ghadimi, B. D. Minsky, M. Fleischmann, E. Fokas, C. Rödel

10:46	Multicenter large retrospective database on SBRT for colorectal lung metastases: the LaIT-SABR study	PH - 0112
	<i><u>L. Nicosia (Italy), D. Franceschini, F. Perrone Congedi, F. Casamassima, M.A. Gerardi, M. Perna, V. Scotti, A. Fodor, R. Mazzola, M. Rigo, A. Iurato, F. Pasqualetti, G. Gadducci, S. Chiesa, R.M. Niespolo, A. Bruni, L. Frassinelli, P. Borghetti, A. Di Marzo, A. Ravasio, B. De Bari, M. Sepulcri, D. Aiello, G. Mortellaro, C. Sangalli, M. Franceschini, G. Montesi, F.M. Aquilanti, R. Valdagni, I. Fazio, L. Corti, L. Vavassori, E. Maranzano, S.M. Magrini, F. Lohr, S. Arcangeli, V. Valentini, F. Paiar, S. Ramella, N.G. Di Muzio, L. Livi, B.A. Jereczek-Fossa, M.F. Osti, M. Scorsetti, F. Alongi</u></i>	
10:54	Anti-Epidermal Growth Factor Receptor Therapy in combination with Chemoradiotherapy for the Treatment of Locally Advanced Anal Canal Carcinoma: Results of a Phase II Study with Panitumumab (FFCD 0904)	PH - 0113
	<i><u>V. Vendrely (France), P. Ronchin, K. Le-Malicot, M. Minsat, C. Lemanski, X. Mirabel, A. Lievre, A. Darut-Jouve, C. De La Fouchardiere, G. Breysacher, D. Argo-Leignel, E. Thimonier, N. Magne, C. Belletier, C. Lepage, T. Aparicio</u></i>	
11:02	Pelvic insufficiency fractures detected by MRI one-year after chemoradiotherapy for anal cancer.	PH - 0114
	<i><u>C. Kronborg (Denmark), B.G. Pedersen, J. Klemmensen, A.C. Lefèvre, K.L. Wind, K.G. Spindler</u></i>	
11:10	Bone marrow-sparing IMRT in anal cancer patients: final results of a prospective phase II trial	PH - 0115
	<i><u>P. Franco (Italy), F. Arcadipane, F. Olivero, P. Silveti, I. Chiovatero, L. Spinelli, R. Carlevato, E. Gallio, F.R. Giglioli, C. Fiandra, U. Ricardi</u></i>	
11:18	Zebrafish avatars as radiosensitivity predictors in Rectal Cancer: towards personalized treatment	PH - 0116
	<i><u>O. Parés i Grau (Portugal), B. Costa, S. Vieira, J. Stroom, M.J. Cardoso, R. Coutinho, R. Rio-Tinto, M. Bispo, I. Santiago, L. Fernandez, N. Figueiredo, C. Greco, R. Fior</u></i>	

Track: Interdisciplinary

Plenary session: Presidential symposium - Optimal radiotherapy for all

Saturday, 28 August 2021 11:40 - 12:40 Plenary

Chair: Ben Slotman -

11:40 **Introduction** SP - 0117
B. Slotman (The Netherlands)

11:50 **Multidisciplinary collaboration** SP - 0118
U. Ricard (Italy)

12:00 **Patients as advocates** SP - 0119
A. Kirby (United Kingdom)

12:10 **Policy-making** SP - 0120
Y. Lievens (Belgium)

12:20 **Discussion** - 0121

Track: Interdisciplinary

Symposium: Guidelines

Saturday, 28 August 2021 14:15 - 15:30

N101-102

Chair: Claus Belka & TBC

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14:15 **Introduction: Guideline pipeline**
C. Belka (Germany)

SP - 0122

14:20 **Guideline development: Prostate**
C. Salembier (Belgium)

SP - 0123

14:30 **Guideline development: Lung**
U. Nestle (Germany)

SP - 0124

14:40 **Guideline development: Upper GI**
V. Valentini (Italy)

SP - 0125

14:50 **Guideline development GEC ESTRO**

SP - 0126

V. Strnad, J. Perez-Calatayud (Spain), I. Jurgenliemk-Schulz

15:00 **Guideline development RTT**

SP - 0127

M. Mast (The Netherlands)

15:05 **Guideline development clinical DIVERSA - Glio, breast, skull base**

SP - 0128

M. Høyer (Denmark)

15:15 **Look into the future: ESTRO/Guidelines**

SP - 0129

U. Ricardi (Italy)

Track: Radiobiology

Symposium: Radiobiology underpinning the interactions between radiotherapy and the anti-tumour immune response

Saturday, 28 August 2021 14:15 - 15:30

N104

Chair: Navita Somaiah

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Chair: Laure Maignol

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14:15 **Apoptotic caspases - Key regulators of the interaction between radiotherapy and anticancer immunity**

SP - 0130

L. Galluzzi (USA)

14:33 **Molecular triggers of the abscopal effect by radiotherapy**

SP - 0131

M. Rodríguez-Ruiz (Spain)

14:51 **Manipulating the immune contexture to improve radiotherapy responses** SP - 0132
T. Illidge (United Kingdom)

15:09 **Radiation-induced remodelling of the inflammatory microenvironment by tumour cells** SP - 0133

M. McLaughlin (United Kingdom)

Track: Clinical

Debate: Should the majority of radiation treatments after breast conserving surgery consist of maximum 5 fractions?

Saturday, 28 August 2021 14:15 - 15:30

Plenary

Chair: Icro Meattini -

Chair: Ivica Ratoso -

14:15 **Should the majority of radiation treatments after breast conserving surgery consist if maximum 5 fractions? For the motion.** SP - 0134

C. Coles (United Kingdom)

14:30 **Against the motion** SP - 0135
B. Offersen (Denmark)

14:45 **For the motion (rebuttal)** SP - 0136
E. Senkus-Konefka (Poland)

15:00 **Against the motion (rebuttal)** SP - 0137
S. Rivera (France)

15:15 **Discussion** - 0138

Track: Clinical

Joint symposium: ESTRO-CARO: COVID-19

Saturday, 28 August 2021 14:15 - 15:30

Room 1

Chair: Ben Slotman -

Chair: Corinne Doll -

14:15 **Effect of Covid on radiotherapy practice** SP - 0139
B. Slotman (The Netherlands)

14:30	Hypofractionation after Covid? <u>F. Cury (Canada)</u>	SP - 0140
14:45	Low-dose radiotherapy for treatment of Covid <u>N. Sanmamed Salgado (Spain), P. Alcantara, E. Cerezo, M. Gaztañaga, N. Cabello, S. Gomez, A. Bustos, A. Doval, J. Corona, G. Rodriguez, M.E. Fuentes, A. Sanz, M. Vazquez, F. Ortuño</u>	SP - 0141
15:00	Covid-toxicity and consequences for future radiotherapy <u>B. Abdulkarim (Canada)</u>	SP - 0142
15:15	Discussion	- 0143

Track: Physics

Symposium: Proton arc therapy - An evolution or revolution?

Saturday, 28 August 2021 14:15 - 15:30

Room 2.1

Chairs: Aswin Hoffmann, Kristian Ytre-Hauge & Stefan Both

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14:15	Spot scanning arc therapy: From concept to first delivery <u>X. Ding (USA)</u>	SP - 0144
14:40	Improving proton therapy dose distribution through the use of arc irradiation <u>L. Toussaint (Denmark)</u>	SP - 0145
15:05	Can proton arc therapy offer the opportunity to increase the therapeutic index? <u>A. Carabe (USA)</u>	SP - 0146

Track: Physics

Joint symposium: ESTRO-AAPM: A roadmap for the use of quantitative imaging in radiation oncology

Saturday, 28 August 2021 14:15 - 15:30

Room 2.2

Chair: James O'Connor & Marianne Aznar

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14:15	Introduction (O'Connor roadmap) + PET/MRI biomarker discovery and validation for Radiation Oncology <u>K.R. Redalen (Norway)</u>	SP - 0031
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14:33	Technical validation of MR imaging biomarkers for interventional trials in radiation oncology <u>M. Philippons (The Netherlands)</u>	SP - 0032
14:51	PET-based radiotherapy adaptation: From biomarker discovery and technical validation to clinical trials <u>S. Graves (USA)</u>	SP - 0033
15:09	CT-based quantification of existing biomarkers <u>A. McWilliam (United Kingdom)</u>	SP - 0034

Track: RTT

Symposium: What's next for breathing motion management in radiotherapy?

Saturday, 28 August 2021 14:15 - 15:30

N103

Chair: Angela Botticella

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Chair: Bartosz Bak

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14:15	Advanced motion management in MR guided radiotherapy <u>D. O'Dwyer (Denmark)</u>	SP - 0150
14:40	Advanced motion management in proton radiotherapy <u>K. Andersson (Sweden)</u>	SP - 0151
15:05	Safely regularising breathing motion and prolonging single breath-holds for radiotherapy with a mechanical ventilator <u>S. Parveen (United Kingdom), M. Parkes, E. Wingate, B. Shingler, S. Green , Q. Ghafoor</u>	SP - 0152

Track: Brachytherapy

Joint symposium: ESTRO-ESGO - State of the Art: Updated ESGO-ESTRO-ESP guidelines in endometrial cancer

Saturday, 28 August 2021 14:15 - 15:30

N105-N106

Chair: Nicole Concin

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Chair: Carien Creutzberg

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14:15	Introduction to the ESGO-ESTRO-ESP guidelines and methodology <u>N. Concin (Austria)</u>	SP - 0153
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14:20	Pathology aspects <u>X. Matias-Guiu (Spain)</u>	SP - 0154
14:32	Surgical aspects <u>N. Concin (Austria)</u>	SP - 0155
14:44	Early stage disease, adjuvant treatment including molecular risk classification <u>C. Creutzberg (The Netherlands)</u>	SP - 0156
14:56	Advanced/relapsed disease <u>A. Taylor (United Kingdom)</u>	SP - 0157
15:08	Discussion and Q&A	- 0158

Track: RTT

Poster highlights: Poster Highlights 5: Advanced radiotherapy service implementation

Saturday, 28 August 2021 14:15 - 15:15

Online Stream 1

Chair: Filipa Sousa

14:15	Starting a new era in radiotherapy, transition of work from radiation-oncologist to RTT. <u>L. ten Asbroek (The Netherlands), L. Zwart, E. van Dieren, F. Ong, E. de Wit</u>	PH - 0159
14:23	An evaluation of a therapeutic radiographer led “Sexual Care after Radiotherapy” clinic. <u>H. Nisbet (United Kingdom), L. Caulfield, E. Holloway</u>	PH - 0160
14:31	Virtual reality distraction during uterovaginal brachytherapy applicators’ removal: a pilot study <u>R. Varnier, O. Brière, T. Brouillard, I. Martel-Lafay, A. Serre, A. Couillet, G. Chvetzoff, C. Freulet, P. Pommier (France)</u>	PH - 0161
14:39	Evaluation of New Patient Positioning Workflow on Setup Efficiency and Accuracy <u>G. Zhang (China), H. Zhong, Y. Gao, H. Wu, J. Liu, D. Zhang, B. Li</u>	PH - 0162
14:47	1.5 T MR Linac RO-Lite Workflow <u>M. Jameson, D. Crawford (Australia), L. Hogan, C. Loo, T. Twentyman, A. baker, J. de Leon</u>	PH - 0163

14:55 **Abdominal compression; development of a non-gated pancreas MRIgRT workflow** PH - 0164
S. Alexander (United Kingdom), R. Lawes, G. Adair Smith, H. Barnes, I. Hanson, T. Herbert, R. Huddart, C. Lacey, H. McNair, A. Mitchell, S. Nill, C. Ockwell, U. Oelfke, H. Taylor, A. Wetscherek, K. Aitken, A. Hunt

Track: Clinical

Poster highlights: Poster Highlights 6: CNS 1

Saturday, 28 August 2021 14:15 - 15:15

Online Stream 2

Chair: Mechthild Krause

14:15 **Differentiation of Pseudoprogession vs. True Progressive Disease using Contrast Clearance Analysis** PH - 0165

R. Bodensohn (Germany), R. Forbrig, S. Lietke, J. Reis, A. Boulesteix, U. Mansmann, I. Hadi, D.F. Fleischmann, K.H.J. von Henning-Yoo, J. Mücke, A. Holzgreve, N.L. Albert, V. Ruf, M. Dorostkar, S. Corradini, C. Belka, N. Thon, M. Niyazi

14:23 **Hypofractionated radiotherapy preserves/improves quality-of-life in poor-prognosis high-grade glioma** PH - 0166

Y. Baviskar (India), B. Likonda, S. Pant, A. Dasgupta, A. Chatterjee, S. Mokal, P. Maitre, S. Kanan, J. Goda Sastri, R. Jalali, T. Gupta

14:31 **MRI features correlate with a molecular signature in glioblastoma stem cells** PH - 0167

F. Eckert (Germany), K. Ganser, N. Stransky, B. Bender, J. Schittenhelm, S. Noell, E. Hoffmann, L. Klumpp, D. Zips, F. Paulsen, S. Huber

14:39 **Hyper-versus normofractionated radiochemotherapy with temozolomide in patients with glioblastoma.** PH - 0168

V. Lewitzki (Germany), R. Sweeney, R.J. Klement, A. Grosu, B. Polat, I. Popp

14:47 **Proton therapy for low grade glioma, who will benefit most?** PH - 0169

H. van der Weide (The Netherlands), M. Kramer, D. Scandurra, M. Landeweerd, R. Enting, I. Bosma, M. Heesters, A. Bannink-Gawryszuk, S. Both, J. Langendijk

14:55 **Proton therapy for adult craniopharyngioma** PH - 0170

N. Scher, R. Bentahila, C. Alapetite, A. Beddok (France), S. Helfre, S. Bolle, H. Mammari, R. Dendale, V. Calugaru, L. Feuvret

15:03 **Linac-based Stereotactic Radiosurgery for Brain Arteriovenous Malformations** PH - 0171

A. Gawish (Germany), A. Mpotsaris, I. Sandalcioglu, K.P. Stein, T. Brunner

Track: Interdisciplinary

Award lecture: E van der Schueren Award

Saturday, 28 August 2021 16:00 - 16:20 Plenary

16:00 **Introduction** SP - 0172
B. Slotman (The Netherlands)

16:05 **ESTRO Education: What did we learn from COVID-19?** SP - 0173
J.G. Eriksen (Denmark)

Track: Interdisciplinary

Award lecture: Jens Overgaard Legacy Award

Saturday, 28 August 2021 16:20 - 16:40 Plenary

16:20 **Introduction** SP - 0174
J. Overgaard (Denmark)

16:25 **Towards evidence-based radiation oncology** SP - 0175
H. Laqendijk (The Netherlands)

Track: Interdisciplinary

Proffered papers: Proffered papers 8: Patient-reported outcome measures & quality of life

Saturday, 28 August 2021 16:45 - 17:45 N101-102

Chair: Michelle Leech -

Chair: Birgitte Offersen -

16:45 **Risk factors for cognitive impairment in NSCLC: Secondary findings of the NVALT-11 study** OC - 0176
H. Zeng (The Netherlands), L. Hendriks, W. Witlox, H. Groen, A. Dingemans, J. Praag, J. Belderbos, R. Houben, V. van der Noort, D. De Ruyscher

16:55 **Quality of life after dose-escalated chemoradiation for locally advanced rectal cancer** OC - 0177
M. Verweij (The Netherlands), S. Hoendervangers, A. Couwenberg, M. Burbach, M. Berbee, J. Buijsen, J. Roodhart, O. Reerink, A. Pronk, E. Consten, A. Smits, J. Heikens, H. van Grevenstein, M. Intven, L. Verkooijen

17:05 **Impact of gender on quality of life and toxicity following (chemo)radiotherapy for bladder cancer** OC - 0178
L. Philipps (United Kingdom), N. Porta, N. James, R. Huddart, S. Hafeez, E. Hall

- 17:15 **Associations between patient-reported outcomes and radiation dose in brain tumour patients.** OC - 0179
L. Haldbo-Classen (Denmark), A. Amidi, L. Wu, S. Lukacova, G.V. Oettingen, Y. Lassen-Ramshad, R. Zachariae, J.F. Kallehauge, M. Høyer
- 17:25 **Empowering Patients in Radiation Oncology: Educating cancer patients about Radiation Oncology.** OC - 0180
M. Leech (Ireland), A. Cardone, K. Ceka, C. Hoving, C. Poole
- 17:35 **Implementation of direct quality of life guided treatment plan optimisation** OC - 0181
A. van der Schaaf (The Netherlands), H.P. van der Laan, L. Van den Bosch, E. Korevaar, S. Both, J.A. Langendijk

Track: Radiobiology

Proffered papers: Proffered Papers 9: Radiation immune effects

Saturday, 28 August 2021 16:45 - 17:45

N104

Chair: Ludwig Dubois & TBC

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- 16:45 **SIRT2 promotes murine melanoma progression through natural killer cell inhibition** OC - 0182
S. Acklin-Wehnert (USA), M. Zhang, J. Gillenwater, W. Du, M. Patra, J. Yu, F. Xia
- 16:55 **Hypofractionated radiation synergizes with lenalidomide to induce an abscopal immune response** OC - 0183
K. Onyshchenko (Germany), R. Luo, G. Niedermann
- 17:05 **Comparison of the potency of clinically relevant platinum derivatives to enhance the abscopal effect** OC - 0184
R. Luo (Germany), K. Onyshchenko, L. Wang, E. Firat, G. Niedermann
- 17:15 **Radiation plus PI3K- γ inhibitor potentiated PD-1 blockade in murine and human breast cancer models** OC - 0185
I.A. Kim (Korea Republic of), M.G. Han, B.S. Jang, M.H. Kang
- 17:25 **Innate immune signalling and immunogenic cell death upon treatment with radiation and ATR inhibitors** OC - 0186
A. Eek Mariampillai (Norway), S. Hauge, R.G. Syljuåsen
- 17:35 **Effects of proton vs photon irradiation on inflammation and senescence in salivary gland organoids** OC - 0187
D. Cinat (The Netherlands), L. Barazzuol, R. Coppes

Track: Clinical

Proffered papers: Proffered papers 10: Lung

Saturday, 28 August 2021 16:45 - 17:45

Plenary

Chair: Sara Ramella

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Chair: Dirk De Ruyscher

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16:45 **Adjuvant treatment following irradical resection of stage I-III NSCLC: a population-based study** OC - 0188

M. Rasing (The Netherlands), M. Peters, M. Aarts, G. Herder, A. van Lindert, F. Schramel, F. van der Meer, J. Verhoeff, P. van Rossum

Postoperative radiotherapy in non-small cell lung cancer pN1 OC - 0189

Withdrawn

16:55 **Validation of the impact of heart base dose on survival in NSCLC patients from the PET-Plan Trial** OC - 0190

M. Craddock (United Kingdom), U. Nestle, T. Schimek-Jasch, S. Kremp, S. Lenz, G. Price, A. Salem, C. Faivre-Finn, M. van Herk, A. McWilliam

17:05 **Cardiac death relates to cardiac admission and left anterior descending artery RTdose in lung cancer** OC - 0191

A. Abravan (United Kingdom), C. Faivre-Finn, J. Khalifa, K. Banfill, A. McWilliam, M. van Herk

17:15 **Impact of heart irradiation on survival (OS) in lung SBRT and locally advanced NSCLC treatments.** OC - 0192

M. Fatyga (USA), J. Li, J. Hu, S.E. Schild, J. Anderson

17:25 **Introduction of IMPT for (N)SCLC patients: NTCP model based selection of patients and first results** OC - 0193

R. Wijsman (The Netherlands), O. Chouvalova, P. Klinker, A. Niezink, A. Van der Leest, F. Ubbels, M. Woltman - Van Iersel, S. Both, E. Korevaar, J. Langendijk

Track: Physics

Proffered papers: Proffered papers 11: Detectors and dosimetry

Saturday, 28 August 2021 16:45 - 17:45

Room 2.1

Chair: Hugo Palmans & TBC

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16:45 **Monte Carlo determination of magnetic field correction factors kB,Q for dosimetry in 1.5T MR-Linacs** OC - 0194

V. Margaroni (Greece), E.P. Pappas, A. Episkopakis, P. Karaiskos

- 16:55 **The effective point of measurement of thimble-type chambers in the presence of a magnetic field** OC - 0195
T. Tekin (Germany), I. Blum, B. Delfs, B. Poppe, H.K. Looe
- Determination of the beam-quality correction factors k_Q for the PTW PinPoint 3D 31022 chamber** OC - 0196
Withdrawn
- 17:05 **Dose response of diode-type detectors in magnetic field under small field conditions** OC - 0197
I. Blum (Germany), T. Tekin, B. Delfs, A. Schönfeld, R. Kapsch, B. Poppe, H.K. Looe
- 17:15 **First microdosimetry 2D maps with an array of new 3D-cylindrical microdetectors in proton therapy** OC - 0198
C. Guardiola (France), D. Bachiller-Perea, C. Fleta, D. Quirion, L. De Marzi, A. Maia Leite³, F. Gómez
- 17:25 **Toward traceable dosimetry for electronic brachytherapy devices with skin applicators** OC - 0199
B. Reniers (Belgium), D. Colson, M. Wieme, S. Arits, R. Federighi, P. Aviles Lucas, K. Elfried, G.Y. Fernando, J. Derrien, L. de Prez, F. Verhaegen

Track: Physics

Proffered papers: Proffered papers 12: Adaptive RT: Proton

Saturday, 28 August 2021 16:45 - 17:45

Room 2.2

Chair: Jenny Bertholet -

Chair: Christian Richter -

- 16:45 **Patterns Of Practice in Adaptive and Real-Time Particle Therapy, Part I: intrafractional motion** OC - 0200
Y. Zhang (Switzerland), P. Trnkova, B. Heijmen, C. Richter, M. Aznar, F. Albertini, A. Bolsi, J. Daartz, J. Bertholet, A. Knopf
- Breast specific cone-beam CT calibration for daily dose verification in proton therapy** OC - 0201
Withdrawn
- 16:55 **Influence of deformable propagated structures for lung cancer online daily adaptive proton therapy** OC - 0202
L. Nenoff (Switzerland), M. Matter, E.J. Amaya, M. Josipovic, A. Knopf, T. Lomax, G.F. Persson, C.O. Ribeiro, S. Visser, M. Walser, D.C. Weber, Y. Zhang, F. Albertini

- 17:05 **Nominal, daily and accumulated target coverage for photon and proton treatment of sinonasal cancer** OC - 0203
R. Argota Perez (Denmark), M.B. Sharma, U.V. Elstroem, D.S. Moeller, C. Grau, K. Jensen, S.S. Korreman, A.I. Holm
- 17:15 **Prompt-gamma-based verification in proton therapy: CNN-based classification of treatment deviations** OC - 0204
J. Pietsch (Germany), C. Khamfongkhruea, J. Berthold, G. Janssens, K. Stützer, S. Löck, C. Richter
- 17:25 **Thermoacoustic Range Verification During Delivery of a Clinical Plan to a Abdominal Imaging Phantom** OC - 0205
S. Patch (USA), C. Nguyen, R. Labarbe, G. Janssens, J. Lambert, M. Cohilis, K. Souris, S. Ono, T. Lynch

Track: Clinical

Proffered papers: Proffered papers 13: Haematology / Paediatrics / Sarcoma

Saturday, 28 August 2021 16:45 - 17:45

N103

Chair: Beate Timmermann

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Chair: Anne Laprie

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- 16:45 **Radiotherapy as bridging strategy in Large B-cell lymphoma patients selected for CAR T-cell therapy** OC - 0206
A. Niezink (The Netherlands), M. Beijert, J. van Doesum, C.T. Muijs, J.A. Langendijk, D.M. Busz, A.P. Crijns, T. van Meerten
- 16:55 **Long-term results of peri-transplant RT in Hodgkin's lymphomas: results from a multi-center study** OC - 0207
M. Levis (Italy), B. Campbell, F. Matrone, G. Furfaro, L. Grapulin, A. Di Russo, M. Buglione, I. Iamundo De Cumis, G. Simontacchi, P. Ciammella, A. Magli, G. Pascale, S. Meregalli, M. MacManus, G. Fanetti, F. De Felice, A. Alghisi, M.A. Deidda, M. Manicone, G. Ciccone, A.R. Filippi, U. Ricardi
- 17:05 **Cardiac substructure dosimetry and late cardiac arrhythmia in the Childhood Cancer Survivor Study** OC - 0208
J. Bates (USA), S. Shrestha, Q. Liu, S. Smith, D. Mulrooney, W. Leisenring, T. Gibson, L. Robison, E. Chow, K. Oeffinger, G. Armstrong, L. Constine, B. Hoppe, C. Lee, Y. Yasui, R. Howell
- 17:15 **Radiation-induced cavernomas: investigating the role of MRI-SWI for screening and surveillance in long-term cancer survivors** OC - 0209
B. Campbell (Australia), A. Lasocki, M. Bressel, S. Oon, N. Goroncy, J. Seymour, M. Dwyer, K. Wiltshire, K. Mason, D. Tange, M. Xu, G. Wheeler

17:25 **Long-term results from the phase II/III Act.In.Sarc trial evaluating NBTXR3 in locally advanced STS** OC - 0210
S. Bonvalot (France), P. Rutkowski, J. Thariat, S. Carrère, A. Ducassou, M. Sunyach, P. Agoston, A. Hong, A. Mervoyer, M. Rastrelli, C. Le Péchoux, V. Moreno, R. Li, B. Tiangco, Z. Papai

17:35 **Overall survival of patients with myxofibrosarcomas: an epidemiological study** OC - 0211
P. Braam (The Netherlands), C. van der Horst, S. Bongers, Y. Versleijen-Jonkers, V. Ho, J. de Wilt, I. Desar

Track: Physics

Poster highlights: Poster Highlights 7: Quantitative functional and biological imaging

Saturday, 28 August 2021 16:45 - 17:45

Online Stream 1

Chair: Petra van Houdt &TBC -

16:45 **Optimization of intravoxel incoherent motion diffusion MRI for brain tumours biomarkers estimation** PH - 0212
G. Buizza, M.A. Zampini, G. Sablone, G. Fontana, S. Imperato, G. Riva, A. Iannalfi, E. Orlandi, C. Paganelli (Italy), G. Baroni

16:53 **Repeatability of free breathing diffusion weighted MRI for MR guided liver SBRT** PH - 0213
V. van Pelt (The Netherlands), R.J.M. Navest, M.E. Nowee, U.A. van der Heide, P.J. van Houdt

17:01 **Does longitudinal Diffusion-Weighted MRI have the potential to carry biological information?** PH - 0214
A. Bisgaard (Denmark), C. Brink, M. Lynge Fransen, T. Schytte, C. Behrens, H. Nissen, F. Mahmood

17:09 **Repeatability of diffusion-weighted MRI in head and neck cancer at a 1.5 T MR-Linac** PH - 0215
J. Habrich (Germany), S. Boeke, M. Nachbar, K. Nikolaou, F. Schick, C. Gani, D. Zips, D. Thorwarth

17:17 **Volumetric and dosimetric stability of metabolic tumor volume in dose painting of anal cancer** PH - 0216
A.M. Acosta Roa (Norway), V.E. Skingen, B.L. Rekstad, M.G. Guren, E. Rusten, E. Malinen

17:25 **Synergistic use of combined FDG and FMISO PET/CT imaging for personalized dose prescription** PH - 0217
M. Lazzeroni (Sweden), A. Ureba, N.H. Nicolay, N. Wiedenmann, B. Thomann, D. Baltas, M. Mix, I. Toma-Dasu, A.L. Grosu

- 17:33 **Functionality-optimised radiotherapy for lung cancer patients using SPECT/CT** PH - 0218
A. Quinet, Y. Jourani (Belgium), B. Vanderlinden, P. Fernandes, Z. Paquier, F. Charlier, L. Moretti, P. Flamen, P. Van Houtte, D. Van Gestel, N. Reynaert

Track: Clinical

Poster highlights: Poster Highlights 8: Breast

Saturday, 28 August 2021 16:45 - 17:45

Online Stream 2

Chair: Dorota Gabrys -

- 16:45 **Ten-year results of hypofractionated whole breast RT and intraoperative boost in premenopausal women** PH - 0219
S. Dicuonzo, C. Cormio, C.I. Fodor, A. Morra, D.P. Rojas, M.A. Zerella (Italy), F. Cattani, V.E. Galimberti, P. Veronesi, M. Zaffaroni, R. Orecchia, M.C. Leonardi, B.A. Jereczek-Fossa
- 16:53 **Long-term quality of life in breast cancer survivors 10 years after radiotherapy** PH - 0220
P. Seibold (Germany), Y. Gao, S. Behrens, J. Chang-Claude
- 17:01 **Invasive ductal carcinoma tumor grade in patients treated with intra-operative radiation therapy** PH - 0221
B. Schwartzberg (USA), H. Chang, A.M.N. Syed, W. Hodge, S. Reiner
- 17:09 **Irradiation With or Without Boost in Low Risk Early Breast Cancer: Data from a Large Health System** PH - 0222
S.W. Seol (USA), T. Pflederer, L. Weller, C. Goodman, E. Donnelly, J. Hayes, J. Strauss
- 17:17 **Pathological complete response after preoperative chemoradiotherapy for HER2+/TN breast cancer** PH - 0223
R. Ciervide (Spain), A. Montero, M. García-Aranda, B. Alvarez, X. Chen-Zhaoi, R. Alonso, M. Lopez, O. Hernando, E. Sanchez, J. Valero, M. Nuñez, M. Izquierdo, K. Rossi, C. Cañadillas, M.A. De la Casa, J. Marti, L. Alonso, P. Fernandez Leton, C. Rubio
- 17:25 **Association between the genomic immune response and locoregional control in ER- breast cancer** PH - 0224
C. Liveringhouse (USA), C. Wilson, M. Mills, R. Thapa, B. Fridley, T. Robinson, R. Diaz
- 17:33 **TROG 14.04: Multicentre study of feasibility and impact on anxiety of DIBH in breast cancer patients** PH - 0225
T. Kron (Australia), M. Bressel, P. Lonski, C. Hill, R. Mercieca-Bebber, V. Ahern, M. Lehman, C. Johnson, D. Latty, R. Ward, D. Miller, D. Banjade, D. Moriss, R. De Abreu Lourenco, J. Woodcock, R. Montgomery, J. Lehmann, B. Chua

Track:

Plenary session: Poster Awards Ceremony

Saturday, 28 August 2021 18:00 - 19:00

N101-102

Chair: Jenny Bertholet

-

Chair: Sophie Perryck

-

Sunday
29 August
2021



Track: Interdisciplinary

Teaching lecture: Biomarker-guided precision radiotherapy

Sunday, 29 August 2021 08:00 - 08:40

N101-102

Chair: Anna Dubrovská

-

08:00 **Biomarker-guided precision radiotherapy**
S. Bratman (USA)

SP - 0226

Track: Radiobiology

Teaching lecture: The radiobiology of the normal brain

Sunday, 29 August 2021 08:00 - 08:40

N104

Chair: Anthony Chalmers

-

08:00 **The radiobiology of the normal brain**
C. Limoli (USA)

SP - 0227

Track: Clinical

Teaching lecture: Shifting cold to hot tumors: Interplay between radiation, cancer cells and microenvironment

Sunday, 29 August 2021 08:00 - 08:40

Plenary

Chair: Maria Antonietta Gambacorta

-

08:00 **Shifting cold to hot tumors: Interplay between radiation, cancer cells and microenvironment.**
S. Tubin (Austria)

SP - 0228

Track: Clinical

Teaching lecture: How to tailor your cervical cancer treatment based on evidence-based dose-effect relationships

Sunday, 29 August 2021 08:00 - 08:40

Room 1

Chair: Ina Jürgenliemk-Schulz

-

08:00 **Dose-effect relationship in the targets**
M. Schmid (Austria)

SP - 0229

08:20 **Dose-effect relationship in the organs at risk**
A. Sturdza (Austria)

SP - 0230

Track: Physics

Teaching lecture: IAEA TRS 398: Update for modern radiotherapy

Sunday, 29 August 2021 08:00 - 08:40

Room 2.1

Chair: Catharine Clark

-

08:00 **IAEA TRS 398: Update for modern radiotherapy**
H. Palmans (Austria)

SP - 0231

Track: Physics

Teaching lecture: The dos and don'ts for statistical treatment outcome modelling

Sunday, 29 August 2021 08:00 - 08:40

Room 2.2

Chair: Ane Appelt

-

08:00 **The do and don'ts for statistical treatment outcome modelling**
I. Vogelius (Denmark)

SP - 0232

Track: RTT

Teaching lecture: The future of RTT advanced practice

Sunday, 29 August 2021 08:00 - 08:40

N103

Chair: Michael Velec

-

08:00 **The future of RTT advanced practice**
Y.M. Tsang (United Kingdom)

SP - 0233

Track: Interdisciplinary

Symposium: Turning cold into hot tumours: Challenges in radio-immunotherapy

Sunday, 29 August 2021 08:45 - 10:00

N101-102

Chair: Kerstin Borgmann

-

Chair: Sara Pilskog

-

08:45 **Radiotherapy and Immunotherapy Combinations: The Hype and the Hope**
R. Weichselbaum (USA)

SP - 0234

09:10 **How to boost the abscopal effect** SP - 0235
S. Formenti (USA)

Track: Radiobiology

Symposium: Normal tissue effects of combined therapies

Sunday, 29 August 2021 08:45 - 10:00

N104

Chair: Navita Somaiah -

Chair: Brita Singers Sørensen -

08:45 **Necessity of normal tissue models** SP - 0237
A. van der Kogel (USA)

09:03 **Normal tissue effects of radiation combined with vascular targeting agents** SP - 0238
M. Horsman (Denmark)

09:21 **NOTCH interference and lung radiation response** SP - 0239
M. Vooijs (The Netherlands)

09:39 **DDR inhibition combined with thoracic irradiation side effects** SP - 0240
M. Hecht (Germany)

Track: Clinical

Joint symposium: ESTRO-RANZCR - Challenges and benefits of SBRT

Sunday, 29 August 2021 08:45 - 10:00

Plenary

Chair: Keen Hun Tai -

Chair: Sara Ramella -

08:45 **Primary and adjuvant pancreatic SBRT for close or positive margins** SP - 0241
A. Namysł-Kaletka (Poland), J. Wydmanski, I. Debosz-Suwinska, R. Kulik, A. Roch-Zniszczol, D. Gabrys

09:03 **Current status and future perspectives of SBRT for lung tumours** SP - 0242
E. Troost (Germany)

09:21 **SBRT - A new frontier for primary kidney cancer** SP - 0243
S. Siva (Australia)

09:39 **SBRT for liver tumours** SP - 0244
M. Lee (Australia)

Track: Clinical

Joint symposium: ESTRO-ESR: MRI-guided radiotherapy in gynaecological cancer treatment

Sunday, 29 August 2021 08:45 - 10:00

Room 1

Chair: Henrike Westerveld -

Chair: Regina Beets-Tan -

08:48 **Functional MRI for cervical cancer** SP - 0245
E. Sala (United Kingdom)

09:06 **MR-linac in gynaecological tumours: Looking for added values** SP - 0246
L. Boldrini (Italy)

09:24 **MR anatomy of the uterus, cervical and pelvic floor: All you need to know for accurate contouring** SP - 0247
S. Nouqaret (France)

09:42 **Image-guided adaptive brachytherapy in gynaecological tumours** SP - 0248
R. Nout (The Netherlands)

Track: Physics

Joint symposium: ESTRO-EFOMP: New radiotherapy technology - What does it mean for radioprotection

Sunday, 29 August 2021 08:45 - 10:00

Room 2.1

Chair: Núria Jornet -

Chair: Brendan McClean -

08:45 **Radiation protection in proton therapy facilities** SP - 0249
H. Nyström (Sweden)

09:03 **Implementation of new BSS in a radiotherapy department: Implications for medical physicists** SP - 0251
B. McClean (Ireland)

09:21 **Justification and optimisation of radiation doses for imaging in radiotherapy** SP - 0252
A. Torresin (Italy)

Track: Physics

Symposium: Novel planning approaches for uncertainties in GTV delineation and microscopic disease around GTVs

Sunday, 29 August 2021 08:45 - 10:00

Room 2.2

Chair: Claudio Fiorino -

Chair: Christian Rønn Hansen -

08:45 **Modelling and quantifying microscopic tumour progression** SP - 0253
J. Unkelbach (Switzerland), R. Ludwig, B. Pouymayou, J. Hoffmann, P. Balermipas

09:10 **Probabilistic planning for microscopic disease** SP - 0254
N. Shusharina (USA), T. Bortfeld

09:35 **Prioritised MCO to automatically balance dose extensions for uncertainties in GTV contours and microscopic disease against doses in OARs** SP - 0255
S. Korreman (Denmark)

Track: RTT

Symposium: Opportunities for RTTs in higher education: Making the right choice

Sunday, 29 August 2021 08:45 - 10:00

N103

Chair: Elizabeth Forde -

Chair: Aileen Duffton -

08:45 **Higher education for advancing clinical practice - Examining the degrees of "preparation"** SP - 0256
N. Harnett (Canada)

09:10 **Preparing for a clinical academic career** SP - 0257
H. McNair (United Kingdom)

09:35 **Training RTTs for leadership** SP - 0258
C. Washington (USA)

Track: Brachytherapy

Symposium: Salvage brachytherapy for breast cancer

Sunday, 29 August 2021 08:45 - 10:00

N105-N106

Chair: Vratislav Strnad -

Chair: Jean-Michel Hannoun-Levi -

08:45 **In-breast recurrences: Patients selection for salvage lumpectomy and brachytherapy** SP - 0259
P. Csaba (Hungary)

09:03 **Techniques and results of salvage brachytherapy after 2nd breast conserving surgery** SP - 0260
J. Hannoun-Levi (France)

09:21 **Salvage surface-brachytherapy of thoracic wall - indications, technique, results** SP - 0261
A. Chichet (Poland)

09:39 **Interstitial Salvage -brachytherapy for recurrent breast cancer of thoracic wall** SP - 0262
P. Niehoff (Germany)

Track: Physics

Poster highlights: Poster highlights 9: Intra-fraction motion management

Sunday, 29 August 2021 08:45 - 09:45

Online Stream 1

Chair: Oliver Blanck -

08:45 **Pre-clinical vs. clinical 4D accumulated proton dose delivery for thoracic tumours with large motion** PH - 0263
C. O. Ribeiro (The Netherlands), E.W. Korevaar, S. Visser, A.C. Hengeveld, G. G. Marmitt, J.A. Langendijk, R. Wijsman, A. Knopf, A. Meijers, S. Both

- 08:53 **Quantification of organ motion during prolonged breath-holding using deformable image registration** PH - 0264
E.R. Gunwhy (The Netherlands), Z. van Kesteren, M.J. Parkes, M.F. Stevens, J.G. van den Aardweg, G. van Tienhoven, A. Bel, I.W. van Dijk
- 09:01 **Diaphragm motion prediction based on optical surface with machine learning for liver tumor SBRT** PH - 0265
Z. Dai (China), Y. Zhang, Q. He, S. Zhao, Y. Zhu, H. Jin, J. Chen, X. Wang
- 09:09 **Fast deformable contour propagation for intra-fraction adaptive MR-guided prostate radiotherapy** PH - 0266
T. Willigenburg (The Netherlands), C. Zachiu, J. Lagendijk, H. de Boer, J. van der Voort van Zyp, B. Raaymakers
- 09:17 **Exploration of feasible motion metrics for bowel motion quantification in pelvic radiotherapy** PH - 0267
M. Dassen (The Netherlands), D. Barten, J. Laan, H. Westerveld, A. Bel, Z. Van Kesteren
- 09:25 **Precision of image-guided RT for spinal SABR patients and impact of positioning variables** PH - 0268
C. Billiet (Belgium), S. Van Laere, I. Joye, C. Mercier, P. Dirix, W. Vingerhoed, P. Vermeulen, D. Nevens, P. Meijnders, D. Verellen
- 09:33 **Intrafractional monitoring of patients in four immobilization mask systems for cranial radiotherapy** PH - 0269
D. Reitz (Germany), J. Muecke, V. Mendes da Silva, G. Landry, M. Reiner, M. Niyazi, C. Belka, S. Corradini, P. Freisleder

Track: Clinical

Poster highlights: Poster Highlights 10: Lung

Sunday, 29 August 2021 08:45 - 09:45

Online Stream 2

Chair: TBC

-

- 08:45 **Prediction models for cardiotoxicity in patients with non-small-cell lung cancer: systematic review** PH - 0270
F. Tohidinezhad (The Netherlands), F. Pennetta, J. Van Loon, D. De Ruyscher, A. Traverso
- 08:53 **Mid-p strategy versus ITV strategy in locally advanced lung cancer. A randomized phase II study** PH - 0271
L. Claude (France), V. Isnardi, C. Schiffler, S. Metzger, I. Martel-Lafay, S. Rit, D. Sarrut, T. Baudier, M. Ayadi

- 09:01 **Prospective quality of life in 682 lung cancer patients treated with radiotherapy: real life data** PH - 0272
M. Nies (The Netherlands), R. Wijsman, O. Chouvalova, F.J. Ubbels, H.J. Elzinga, E. Haan-Stijntjes, M. Woltman-van Iersel, A.H. van der Leest, J.A. Langendijk, A.G. Niezink
- 09:09 **Chemoradiotherapy for NSCLC patients with a high predicted risk of irradical resection** PH - 0273
H. van Joolingen (The Netherlands), M. Rasing, M. Peters, A. van Lindert, L. de Heer, M. Aarts, J. Verhoeff, P. van Rossum
- 09:17 **NLR & ALC as prognostic markers in patients treated with curative intent radiotherapy for NSCLC** PH - 0274
C. Hiley (United Kingdom), A. Punjabi, E. Barrett, A. Cheng, A. Mulla, G. Walls, D. Johnston, J. McAleese, K. Moore, J. Hicks, K. Blyth, M. Denholm, L. Magee, D. Gilligan, S. Silverman, M. Qureshi, H. Clinch, M. Hatton, L. Phillips, S. Brown, M. O'Brien, F. Macdonald, C. Faivre-Finn, M. Evison
- 09:25 **Estimating the casual effect of reducing dose to cardiac structures in lung cancer radiotherapy** PH - 0275
A. McWilliam (United Kingdom), A. Abravan, K. Banfill, G. Price, C. Faivre-Finn, M. van Herk
- 09:33 **Prospective study exploring early cardiac toxicity in radiotherapy for LA-NSCLC:Preliminary Analysis** PH - 0276
M. Miele (Italy), M. Fiore, E. Ippolito, S. Mega, M. Carpenito, S. Ramella

Track: Interdisciplinary

Proffered papers: Proffered papers 14: Hypoxia and tumour microenvironment

Sunday, 29 August 2021 10:30 - 11:30

N101-102

Chair: Iuliana Toma-Dasu

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Chair: Marc Vooijs

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- 10:30 **A 6-gene signature for loco-regional control prognosis in HNSCC patients treated by PORT-C** OC - 0277
S. Patil (Germany), A. Linge, M. Grosser, V. Gudziol, A. Nowak, I. Tinhofer, V. Budach, A. Sak, M. Stuschke, P. Balcermpas, C. Rödel, H. Schäfer, A. Grosu, A. Abdollahi, J. Debus, U. Ganswindt, C. Belka, S. Pigorsch, S.E. Combs, D. Mönnich, D. Zips, G.B. Baretton, M. Baumann, M. Krause, S. Löck
- 10:40 **Accelerated CH-RT with/without nimorazole for p16- HNSCC: the randomized DAHANCA 29-EORTC 1219 trial** OC - 0278
V. Grégoire (France), Y. Tao, J. Kaanders, J. Machiels, N. Vulquin, S. Nuyts, C. Fortpied, H. Lmalem, S. Marreaud, J. Overgaard

10:50	Hypoxic gene expression is a prognostic factor for survival in locally advanced SCC cervical cancer	OC - 0279
	<i>J. Alsner (Denmark), J. Overgaard, T. Tramm, J.C. Lindegaard</i>	
11:00	Tumour hypoxia and immunity as predictors of chemoradiotherapy outcome in cervical cancer	OC - 0280
	<i>C. Fieldbo (Norway), V.E. Skingen, E. Aarnes, G.B. Kristensen, H. Lyng</i>	
11:10	Tumour reoxygenation by intratumoural hydrogen peroxide: a mechanism for enhanced radiosensitivity	OC - 0281
	<i>S. Nimalasena (United Kingdom), S. Anbalagan, C. Box, J.K. Boult, N. Bush, S.P. Robinson, J. Yarnold, N. Somaiah</i>	
11:20	Inhibition of oxidative phosphorylation alters the tumor microenvironment in syngeneic mouse models	OC - 0282
	<i>D. Boreel (The Netherlands), P. Span, A. Kip, H. Peters, R. van den Bijgaart, S. Heskamp, G. Adema, J. Bussink</i>	

Track: Radiobiology

Proffered papers: Proffered papers 15: Radiobiology of normal tissues

Sunday, 29 August 2021 10:30 - 11:30

N104

Chair: Rob Coppes

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Chair: Albert van der Kogel

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10:30	LET dependence of proton RBE in early normal tissue damage in vivo	OC - 0283
	<i>C. Overgaard (Denmark), M.K. Sitarz, N. Bassler, H. Spejlborg, J.G. Johansen, E. Kanouta, C. Grau, J. Overgaard, P. Poulsen, B.S. Sørensen</i>	
10:40	MAN1C1, a potential regulator of monocyte – endothelial cell interactions after irradiation	OC - 0284
	<i>S. LADAIGUE (France), A. Lefranc, K. Baldé, M. Quitoco, E. Bacquer, A. François, V. Paget, F. Milliat, O. Guipaud</i>	
10:50	Differential neurocognitive response after partial brain proton irradiation	OC - 0285
	<i>D. Voshart (The Netherlands), F. van Buuren-Broek, M. Klaver, A. Scholma, P. van Luijk, R. Coppes, L. Barazzuol</i>	
11:00	Wnt-associated DKK3 mediates radiation-induced dermal inflammation and fibrosis	OC - 0286
	<i>L. Li (Germany), R. Jennemann, K. Shehzad, E. Grimm, R. Lopez Perez, R. Sandhoff, P. Nelson, P. Huber</i>	

11:10 **Long-term recovery of pulmonary vasculature after thoracic irradiation requires sparing of the heart** OC - 0287

J. Wiedemann (The Netherlands), S.K. Paruchuru, L.E. den Boef, U. Brouwer, E.M. Schouten, M.G. Dickinson, R.A. de Boer, R.P. Coppes, P. van Luijk

11:20 **Preclinical study of chronic radiation cystitis and cell therapy treatment** OC - 0288

C. Brossard (France), A. Lefranc, M. Dos Santos, M. Benadjaoud, C. Demarquay, V. Buard, G. Tarlet, C. Linard, C. Squiban, N. Mathieu, R. Granger, A. Sache, D. Denais Lalieve, J. Simon, M. Benderitter, F. Milliat, A. Chapel

Track: Clinical

Proffered papers: Proffered papers 16: Late-breaking abstracts

Sunday, 29 August 2021 10:30 - 11:30

Plenary

Chair: Anna Kirby

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Chair: Umberto Ricardi

-

10:30 **Comparison of side effects at 2 years in the randomised PACE-B trial (SBRT vs standard radiotherapy)** OC - 0289

A.C. Tree (United Kingdom), E. Hall, P. Ostler, H. van der Voet, A. Loblaw, W. Chu, D. Ford, S. Tolan, S. Jain, A. Martin, J. Staffurth, P. Camilleri, K. Kancherla, J. Frew, D.H. Brand, A. Chan, I.S. Dayes, S. Brown, J. Pugh, S. Burnett, A. Dufton, C. Griffin, M. Mahmud, O. Naismith, N. van As, O.B. of the

10:40 **Discussant: P. Ost (Belgium)**

10:50 **IMPORT HIGH trial: Dose escalated simultaneous integrated boost radiotherapy in early breast cancer** OC - 0291

C. Coles (United Kingdom), J.S. Haviland, A.M. Kirby, I. Bhattacharya, A.M. Brunt, C. Chan, E.M. Donovan, D.J. Eaton, C.L. Griffin, P. Hopwood, M.L. Jefford, S. Lightowlers, C. Rajapakse, E. Sawyer, L. Stones, I. Syndikus, J.C. Tittley, Y. Tsang, N.I. Twyman, J.M. Bliss, J.R. Yarnold

Discussant: L. Boersma (The Netherlands)

11:10 **TNT in rectal cancer: Final results of the CAO/ARO/AIO-12 randomized phase 2 trial** OC - 0293

E. Fokas (Germany), A. Schlenska-Lange, B. Polat, G. Klautke, R. Fietkau, T. Kuhnt, T. Brunner, A. Grosu, S. Kirste, M. Flentje, C. Germer, W. Bechstein, T. Friede, R. Hofheinz, M. Ghadimi, C. Rödel

11:20 **Discussant: C. Marijnen (The Netherlands)**

Chair: Gabriella Macchia &TBC

- 10:30 **New Prognostic factors in locally advanced cervical cancer treated with MR-IGABT in EMBRACE Study.** OC - 0295
U. Mahantshetty (India), M. Schmid, C. Kirisits, K. Tanderup, C. Haie-Meder, L. Fokdal, A. Sturdza, P. Hoskin, B. Segedin, K. Bruheim, F. Huang, B. Rai, R. Cooper, E. van der Steen-Banasik, E. van Limbergen, B. Pieters, L.T. Tan, R. Hawaldar, S. Kannan, R. Nout, A. A.C. de Leeuw, N. Nesvacil, I. Jürgenliemk-Schulz, J. Lindegaard, R. Pötter
- 10:40 **Risk factors for severe gastrointestinal morbidity in locally advanced cervix cancer (EMBRACE study)** OC - 0296
S. Spampinato (Denmark), N.B. Jensen, L.U. Fokdal, R. Pötter, C. Haie-Meder, J.C. Lindegaard, M.P. Schmid, A. Sturdza, I.M. Jürgenliemk-Schulz, U. Mahantshetty, B. Segedin, P. Hoskin, K. Bruheim, B. Rai, E. Wiebe, R. Cooper, E. van der Steen-Banasik, E. Van Limbergen, C. Kirisits, R.A. Nout, S. Chopra, K. Kirchheiner, K. Tanderup
- 10:50 **Preliminary results of the Italian Retrospective Study on exclusive radiotherapy for vulvar cancer** OC - 0297
C. Casà (Italy), L. Tagliaferri, M. Ferioli, V. Lancellotta, M. Boccardi, A. Cerrotta, F. Tortoreto, E. Ippolito, C. Laliscia, A. Huscher, S. Gribaudo, A.G. Morganti, R. Lazzari, G. Garganese, G. Macchia
- 11:00 **Toxicity and patient-reported symptoms after 3D-conformal or intensity-modulated pelvic radiotherapy** OC - 0298
B. Wortman (The Netherlands), C. Post, M. Powell, P. Khaw, A. Fyles, R. D'Amico, C. Haie-Meder, I. Jürgenliemk-Schulz, M. McCormack, V. Do, D. Katsaros, P. Bessette, M. Baron, R. Nout, K. Whitmarsh, L. Mileshkin, L. Lutgens, H. Kitchener, S. Brooks, H. Nijman, E. Astreimidou, H. Putter, C. Creutzberg, S. de Boer
- 11:10 **Is pelvic radiation the right approach after surgery for FIGO IB grade 3 or type II uterine cancers?** OC - 0299
Z. Horne (USA), M. Manire, S. Crafton, E. Miller, J. Nakayama, C. Morse, T. Krivak, S. Glaser, S. Teterichko, S. Beriwal
- 11:20 **Patients' and clinicians' preferences in adjuvant treatment for high-risk endometrial cancer** OC - 0300
C. Post (The Netherlands), J.W. Mens, M. Haverkort, F. Koppe, I. Jürgenliemk-Schulz, A. Snyers, E. Roeloffzen, E. Schaake, A. Slot, T. Stam, J. Beukema, H. van den Berg, L. Lutgens, H. Nijman, C. de Kroon, J. Kroep, A. Stiggelbout, C. Creutzberg

Track: Physics

Proffered papers: Proffered papers 18: Training and implementation for new technologies

Sunday, 29 August 2021 10:30 - 11:30

Room 2.1

Chair: Eirik Malinen &TBC

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10:30 **Update of the ESTRO-EFOMP core curriculum for medical physics experts in radiotherapy** OC - 0301

C. Garibaldi (Italy), M. Essers, B. Heijmen, J. Bertholet, E. Koutsouveli, M. Schwarz, C. Bert, N. Jornet, C.H. Clark

10:40 **FFF beam steering discrepancies not identified by traditional physics workflow** OC - 0302

J. McAloney (Australia)

10:50 **Using spatial probability maps to highlight potential inaccuracies in deep learning based contours** OC - 0303

W. Verbakel (The Netherlands), W. van Rooij, B. Slotman, M. Dahele

11:00 **A novel direct machine-specific parameter Spot-scanning proton arc (SPArc) optimization algorithm** OC - 0304

X. Ding (USA), G. Liu, L. Zhao, D. Yan, X. Li

11:10 **Acceptance procedure of a novel Flash irradiation system with standard dosimetric tools** OC - 0305

A. Gasparini (Belgium), V. Vanreusel, M. Pacitti, B. Reniers, F. Di Martino, G. Felici, D. Verellen

11:20 **Performance evaluation of BgRT delivery directed at multiple PET-avid targets** OC - 0306

O.M. Oderinde, M. Narayanan (USA), P. Olcott, Y. Voronenko, J. Burns, D. Zaks, S. Xu, D. Rigie, M. Haytmyradov, R.H. Gong, L. Shao, S.M. Shirvani, G. Kuduvalli

Track: Physics

Proffered papers: Proffered papers 19: Plan optimisation and algorithms

Sunday, 29 August 2021 10:30 - 11:30

Room 2.2

Chair: Victor Hernandez

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Chair: Lamberto Widesott

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10:30 **Results of the ESTRO plan quality assessment 2020 online survey** OC - 0307

L.P. Kaplan (Denmark), L. Placidi, A. Bäck, M. Hussein, R. Canters, V. Hernandez, M. Fusella, T. Piotrowski, A. Vaniqui, C.R. Hansen, L. Widesott

10:40	Fast Monte-Carlo dose simulation with recurrent deep learning <i>S. Martinot (France), N. Bus, M. Vakalopoulou, C. Robert, E. Deutsch, N. Paragios</i>	OC - 0308
10:50	Non-coplanar beam angle optimization in IMRT using a total-beam-space reference plan <i>B. Schipaanboord (The Netherlands), B. Heijmen, S. Breedveld</i>	OC - 0309
11:00	Planning dose constraint corrections due to changes in treatment and measurement accuracy <i>J. Stroom (Portugal), A. Taborda, S. Vieira, C. Greco, B. Nijsten</i>	OC - 0310
11:10	Integrating data envelopment analysis into radiotherapy treatment planning for head and neck cancer <i>J. Simpson (Australia), A. Raith, F. Fauzi, K. Lin, A. Macann, P. Rouse, M. Ehrgott</i>	OC - 0311
11:20	CT-less 3D image guidance for high-precision small animal particle irradiation <i>M. Boucsein (Germany), J. Müller, T. Suckert, E. Beyreuther, M. Alber, A. Dietrich, A. Lühr, E. Bahn</i>	OC - 0312

Track: RTT

Proffered papers: Proffered papers 20: Education and training

Sunday, 29 August 2021 10:30 - 11:30

N103

Chair: Mirjam Mast

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Chair: Elizabeth Forde

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10:30	Future solutions to improve comfort during radiotherapy: patient & radiation therapist interviews <i>S. Goldsworthy (United Kingdom), S. Palmer, J. Latour, H. McNair, M. Cramp</i>	OC - 0313
10:40	Panoptes - a novel tool for teaching organ at risk delineation to radiotherapy technologists <i>J. Scheurleer (The Netherlands), E.M. Vasquez Osorio, E. Assendelft, A. Bel, I. van Dijk, H. Bijwaard, M. van Herk</i>	OC - 0314
10:50	Qualitative evaluation of the role of RTTs IGRT specialists and their influence on treatment quality <i>F. Sousa (Belgium), M. Somoano, Y. Jourani, D. Van Gestel</i>	OC - 0315
11:00	Knowledge and skills for MRI in radiotherapy practice: An international modified Delphi study <i>M. Campbell (Canada), L. D'Alimonte, K. Porter, D. Erler, S. Morassaei, J. Croke</i>	OC - 0316

- 11:10 **Improving patients' experience in RT: development and clinical assessment of a PREMS questionnaire** OC - 0317
G. Van Ooteghem (Belgium), S. Konings, A. Vaandering
- 11:20 **A novel eLearning tool for ongoing radiation therapist education on pelvic radiotherapy late effects** OC - 0318
M. Kirby, L. Oliver (United Kingdom), L. Kind, B. Porritt

Track: Physics

Poster highlights: Poster highlights 11: Dosimetry 1

Sunday, 29 August 2021 10:30 - 11:30

Online Stream 1

Chair: Brigitte Reniers -

- 10:30 **Alanine dosimeters for determining linear energy transfer in proton beams** PH - 0319
R. Nattudurai (Norway), D. Arous, N. F.J. Edin, E. Malinen
- 10:38 **Influence of variable beam quality on dosimetry for light ion beams relevant for ocular treatments** PH - 0320
A. Resch (Austria), D. Georg, H. Palmans
- 10:46 **Determination of the effective point of measurement of a ionization chamber in light-ion beams** PH - 0321
S. Barna (Austria), A. Resch, M. Puchalska, D. Georg, H. Palmans
- 10:54 **Application of the TRS-483 protocol for the determination of field output factors** PH - 0322
R. Rodríguez Romero (Spain), A. López Corella, M. Pinto Monedero, P. Sánchez Rubio, A. Montes Uruén, J. Martínez Ortega
- 11:02 **clinical evaluation of the myQA SRS detector for stereotactic body radiotherapy plan verification** PH - 0323
C. Stepanek (United Kingdom), A. Stapleton, J. Haynes, S. Fletcher
- 11:10 **Suitability of plastic detector dosimetry in MR-Linacs** PH - 0324
M.F. Klavsén (Denmark), K. Boye, R.H. Hansen, C. Ankjærgaard, C.E. Andersen
- 11:18 **Quality assurance of electronic brachytherapy treatment units with a plastic scintillation detector** PH - 0325
P. Georgi (Denmark), G. Kertzsch, T. Schneider, J. Graversen Johansen, K. Tanderup, L. Nyvang

Chair: TBC

- 10:30 **Treatment for recurrent Ependymoma : A retrospective and multicentric French study** PH - 0326
J. desrousseaux (France), L. Chaltiel, L. Claude, L. Padovani, A. Ducassou, S. Bolle, J.L. Habrand, C. Carrié, X. Muracciole, A. Escande, C. Alapetite, S. Supiot, V. Bernier-Chastagner, A. Huchet, J. Lesueur, C. Kerr, G. Truc, S. Servagi-Vernat, P. Leblond, A. Bertozzi, S. Boetto, A. Sevely, F. Tensaouti, A. Laprie
- 10:38 **Tumour control and visual outcomes after proton therapy for uveal melanoma** PH - 0327
N. Horeweg (The Netherlands), L.J. Pors, F.P. Peters, A. Schalenbourg, A. Pica, J. Hrbacek, K. Vu, J. Bleeker, C.R. Rasch, M.J. de Jager, G.P. Luyten, M. Marinkovic
- 10:46 **Current practice for selection of adult patients for proton therapy across Europe** PH - 0328
M. Tambas (The Netherlands), H.P. van der Laan, R. Steenbakkens, J. Doyen, B. Timmermann, E. Orlandi, M. Hoyer, K. Haustermans, P. Georg, N.G. Burnet, K. Kirkby, V. Gregoire, V. Calugaru, E.G. Troost, F. Hoebbers, F.A. Calvo, J. Widder, F. Eberle, M. van Vulpen, P. Maingon, T. Skóra, D.C. Weber, K. Bergfeldt, J. Kubes, J.A. Langendijk
- 10:54 **Feasibility and outcome of bridging RT pre CAR-T in DLBCL in one centre with a wide referral network** PH - 0329
J. Brady (United Kingdom), I. Vasiliadou, V. Potter, R. Benjamin, P. Patten, M. Cuadrado, O. Evans, E. Alexander, C. Gillham, J. Summers, T. Ajithkumar, A. Bates, R. Sanderson, A. Kuhn, N. Mikhaeel
- 11:02 **Introducing IMPT for mediastinal lymphoma: feasibility and NTCP model based selection of patients** PH - 0330
A. Niezink (The Netherlands), P. Klinker, D.M. Busz, M. Beijert, S. Both, P. Pisciotta, E.W. Korevaar, J.A. Langendijk, A.P. Crijns
- 11:10 **Patterns And Predictors Of Relapse In Merkel Cell Carcinoma :Results From A Population Based Study.** PH - 0331
K. Joseph (Canada), J. Wong, A. Abraham, A. Menon, S. Ghosh, H. Warkentin, J. Walker, T. Salopek
- 11:18 **The role of multidimensional evaluation in curative radiotherapy for elderly patients (aged ≥75)** PH - 0332
L. Gasparini (Italy), L. Caravatta, M. Taraborrelli, F. Allegra, M. Candeloro, I. Bottone, E. Porreca, D. Genovesi

	Chair: Ben Slotman	-
	Chair: Maria Antonietta Gambacorta	-
11:40	Dose-painting multicenter phase III trial in newly diagnosed glioblastoma: the SPECTRO-GLIO trial	OC - 0333
	<i>A. Laprie (France), G. Noel, L. Chaltiel, G. Truc, M. Sunyach, M. Charissoux, N. Magné, P. Auberdiac, S. Ken, F. Roux, L. Vieillevine, F. Tensaouti, I. Catalaa, S. Boetto, E. Uro-Coste, S. Supiot, V. Bernier, T. Filleron, M. Mounier, M. Poublanc, J. Delord, E. Cohen-Jonathan-Moyal</i>	
11:50	Partial vs whole-breast irradiation for breast cancer patients in the randomized DBCG PBI trial	OC - 0334
	<i>B. Offersen (Denmark), J. Alsner, H.M. Nielsen, E.H. Jacobsen, M.H. Nielsen, L. Stenbygaard, A.N. Pedersen, M.S. Thomsen, E. Yates, M. Berg, E. Lorenzen, I. Jensen, M. Josipovic, M. Jensen, J. Overgaard</i>	
12:00	Final results of TROG 13.01 SAFRON II: Single vs multi-fraction SABR for pulmonary oligometastases	OC - 0335
	<i>S. Siva (Australia), M. Bressel, T. Mai, H. Le, S. Vinod, H. de Silva, S. Macdonald, M. Skala, N. Hardcastle, A. Rezo, D. Pryor, S. Gill, B. Higgs, K. Wagenfuehr, R. Montgomery, R. Awad, B. Chesson, T. Eade, W. Wong, G. Sasso, R. De Abreu Lourenco, T. Kron, D. Ball, P. Neeson</i>	
12:10	Dose escalated chemoradiotherapy in esophageal cancer : randomized phase 2/3 CONCORDE trial	OC - 0336
	<i>G. Crehange (France), C. M'vondo, A. Bertaut, R. Pereira, E. Rio, D. Peiffert, K. Gnep, K. Benezery, P. Ronchin, G. Noel, L. Mineur, A. Drouillard, J. Blanc, M. Rouffiac, J. Boustani</i>	
12:20	Quality of life, functional outcome and late toxicity in patients treated within the RAPIDO trial	OC - 0337
	<i>E. Dijkstra (The Netherlands), G. Hospers, C. van de Velde, J. Fleer, R. Bahadoer, M. Guren, J. Tjalma, H. Putter, E. Meershoek-Klein Kranenbarg, A. Roodvoets, A. ten Tije, J. Capdevila, M. Hendriks, A. Cervantes, P. Nilsson, B. Glimelius, B. van Etten, C. Marijnen</i>	
12:30	Prognostic value of testosterone following androgen deprivation and high-dose radiotherapy in prostate cancer	OC - 0338
	<i>A. Zapatero (Spain), A. Guerrero, X. Maldonado, A. Alvarez, C. González San Segundo, M.A. Cabeza Rodríguez, C. Martín de Vidales, J.M. Sole, A. Pedro Olivé, F. Casas, A. Boladeras, M.L. Vázquez de la Torre, F.A. Calvo</i>	

Track: Interdisciplinary

Joint symposium: ESTRO-JASTRO - Current status of hyperthermia in radiation oncology

Sunday, 29 August 2021 14:15 - 15:30

N101-102

Chair: Yasushi Nagata

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Chair: Stephan Bodis

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14:15 **Introduction to hyperthermic radiation oncology** SP - 0339
J. Overgaard (Denmark)

14:20 **Biological rationale for combining heat and radiation** SP - 0340
J. Crezee (The Netherlands)

14:36 **Clinical heating techniques, thermometry and quality assurance** SP - 0341
G. van Rhoon (The Netherlands), M. Paulides, S. Curto

14:52 **Status of clinical hyperthermia in Japan** SP - 0342
H. Sakurai (Japan)

15:08 **Combining hyperthermia and radiotherapy: Clinical evidence and indications** SP - 0343
O. Ott (Germany)

15:24 **Concluding remarks on the future role of hyperthermia in radiation oncology**
B. Slotman (The Netherlands)

Track: Radiobiology

Symposium: Novel model systems for radiobiology research

Sunday, 29 August 2021 14:15 - 15:30

N104

Chair: François Paris

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Chair: Monica Olcina

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14:15 **Normal tissue organoids for radiosensitivity studies** SP - 0345
R. Coppes (The Netherlands)

14:33	Low-dose lung radiotherapy for COVID-19 lung disease: Preclinical studies in a bleomycin model of pneumonitis <i><u>A. Chalmers (UK)</u></i>	SP - 0346
14:51	Organoid model system to study response in radiotherapy <i><u>M. Mahé (France)</u></i>	SP - 0347
15:09	Patient-derived xenografts as a model system for radiobiology research <i><u>C. Willey (USA)</u></i>	SP - 0348

Track: Clinical

Symposium: Multiple and multifocal SBRT in advanced disease

Sunday, 29 August 2021 14:15 - 15:30

Plenary

Chair: Max Dahele

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Chair: Łukasz Kuncman

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14:15	Manageable or oligometastatic disease: Evolution of terminology in radiation oncology <i><u>M. Guckenberger (Austria)</u></i>	SP - 0349
14:33	Repeat SBRT: Number of treatments, response, toxicity and patient performance <i><u>S. Blamek (Poland)</u></i>	SP - 0350
14:51	How to register images and dose from all treatment plans <i><u>I. Toma-Dasu (Sweden)</u></i>	SP - 0351
15:09	How to differentiate local tumour progression and recurrence from radiation-induced changes after SBRT <i><u>M. Dahele (The Netherlands)</u></i>	SP - 0352

Track: Clinical

Symposium: Update in advanced breast cancer

Sunday, 29 August 2021 14:15 - 15:30

Room 1

Chair: Birgitte Offersen

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Chair: Tomasz Latusek

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- 14:15 **Axillary management after primary systemic treatment** SP - 0353
L. Boersma (The Netherlands)
- 14:33 **Radiotherapy in case of complete pathological response after primary systemic therapy** SP - 0354
L. Bech Jellesmark Thorsen (Denmark)
- 14:51 **SBRT as a strategy to delay systemic treatment in metastatic breast cancer** SP - 0355
D. Gabrys (Poland), R. Kulik, D. Graupner, T. Latusek, I. Debosz-Suwinska, A. Roch-Zniszczol, A. Namysl-Kaletka
- 15:09 **Concomitant radio-chemotherapy in a metastatic setting - Is it safe?** SP - 0356
C. Becherini (Italy)

Track: Physics

Proffered papers: Proffered papers 21: Motion management

Sunday, 29 August 2021 14:15 - 15:30

Room 2.1

- Chair: Mirjana Josipovic** -
- 14:15 **Chair: Martin Fast** -
- 14:15 **The MArkerless Lung target Tracking CHallenge (MATCH)** OC - 0357
M. Mueller (Australia), P. Poulsen, W. Verbakel, R. Berbeco, D. Ferguson, L. Wang, L. Ren, S. Mori, J. Roeske, P. Zhang, P. Keall
- 14:24 **Development and validation of 4DCT(MRI) numerical lung phantoms for 4D radiotherapy investigations** OC - 0358
A. Duetschler (Switzerland), M. Krieger, D.C. Weber, A.J. Lomax, Y. Zhang
- 14:33 **A novel external/internal tracking algorithm mitigating respiratory motion baseline drifts.** OC - 0359
M. Gیزیńska (The Netherlands), Y. Seppenwoolde, B. Heijmen
- 14:42 **A surrogate-driven motion model for incorporating motion irregularity into 4D proton treatment** OC - 0360
Y. Zhang (Switzerland), L. Huang, G. Fattori, A. Duetschler, D. Weber, A. Lomax
- 14:51 **Treatment planning and 4D robust evaluation for proton therapy of lung tumors with large motion** OC - 0361
V. Taasti (The Netherlands), D. Hattu, F. Vaassen, R. Canters, M. Velders, J. Mannens, J. van Loon, I. Rinaldi, M. Unipan, W. van Elmpt

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|-------|---|-----------|
| 15:00 | What to expect from MR-guided beam gating: Residual motion, efficiency and dose reconstruction
<i>S. Ehrbar (Switzerland), S. Braga Magalhaes, M. Chamberlain, J. Krayenbühl, L. Wilke, M. Mayinger, H. Garcia Schüler, M. Guckenberger, N. Andratschke, S. Tanadini-Lang</i> | OC - 0362 |
| 15:09 | Evaluation of how well a PCA model represents anatomical variations during H&N radiation treatment
<i>J. Robbins (United Kingdom), R. Argota-Perez, A. Green, M. van Herk, S. Korreman, E. Vasquez Osorio</i> | OC - 0363 |
| 15:18 | A statistical method for reducing systematic errors in the presence of organ at risk deformations
<i>Ø. Rørtveit (Norway), L.B. Hysing, A.S. Stordal, S. Pilskog</i> | OC - 0364 |

Track: Physics

Symposium: Automatic contouring: Metrics and clinical evaluation approaches

Sunday, 29 August 2021 14:15 - 15:30

Room 2.2

Chair: Ellen Brunenberg

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Chair: Laura Patricia Kaplan

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|-------|---|-----------|
| 14:15 | Overview of AI-based methods for automatic contouring of OARs and tumours
<i>C. Brouwer (The Netherlands)</i> | SP - 0365 |
| 14:33 | Contour similarity metrics and clinical usability
<i>M. Gooding (United Kingdom)</i> | SP - 0366 |
| 14:51 | Clinical validation of automatic segmentation
<i>C. Robert (France), A. Gasnier, P. Blanchard, S. Rivera, A. Munoz, V. Grégoire, E. Deutsch</i> | SP - 0367 |
| 15:09 | Quality assurance of image segmentations used for radiotherapy treatment planning | SP - 0368 |

Track: RTT

Symposium: Working with infections/contagious patients - COVID-19

Sunday, 29 August 2021 14:15 - 15:30

N103

Chairs: Mirjam Mast, Yatman Tsang & Sophie Bockel

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|-------|---|-----------|
| 14:15 | RTT practice during COVID-19
<i>L. Capone (Italy)</i> | SP - 0369 |
|-------|---|-----------|

14:40 **ESTRO RTTC guidance on COVID-19** SP - 0370
M. Rossi (The Netherlands)

15:05 **Radiotherapy service continuity during the COVID-19 pandemic** SP - 0371
P. Scherer (Austria)

Track: Brachytherapy

**Symposium: Next generation of brachytherapy treatment planning systems:
What do we want and what do they need?**

Sunday, 29 August 2021 14:15 - 15:30

N105-N106

Chair: Frank-André Siebert -

Chair: Elisa Placidi -

14:15 **Advancement of model-based dose calculation algorithms in brachytherapy and their clinical impact** SP - 0372
J. Vijande (Spain)

14:40 **Do we have enough data to feed automated dose planning algorithms in brachytherapy?** SP - 0373
B. Pieters (The Netherlands)

15:05 **Requirements for a clinical treatment planning concept to guide automated brachytherapy planning** SP - 0374
E. Placidi (Italy)

Track: Physics

Poster highlights: Poster highlights 13: Treatment planning 2

Sunday, 29 August 2021 14:15 - 15:30

Online Stream 1

Chair: Stine Korreman -

14:15 **Lymphocyte-sparing in pelvic radiotherapy for prostate cancer: an in-silico planning study** PH - 0375
M. Baré (Belgium), S. Poeta, Y. Jourani, F. Otte, P. Lambin, D. Van Gestel, R. Van den Begin

14:23 **Dose escalation to lymph nodes in cervical cancer using a sequential boost on the MR-Linac (MRL)** PH - 0376
J. Lodeweges (The Netherlands), F. van der Leij, I. Jürgenliemk Schulz, A. de Leeuw, J. Hes, A. van Lier

- 14:31 **Organ-at-risk sparing in head and neck radiotherapy with dynamic trajectory radiotherapy** PH - 0377
J. Bertholet (Switzerland), P. Mackeprang, S. Mueller, W. Volken, D. Frei, O. Elicin, D.M. Aebersold, M.K. Fix, P. Manser
- 14:39 **How to achieve the sharpest dose fall-off for hypo-fractionated radiosurgery of large brain lesions?** PH - 0378
T. Nano (USA), O. Morin, B. Ziemer, D. Raleigh, L. Boreta, J. Nakamura, S. Fogh, P. Sneed, S. Harvey-Jumper, P. Theodosopoulos, S. Braunstein, L. Ma
- 14:47 **Influence of tumor site on neurovascular structure doses in proton therapy of pediatric brain tumors** PH - 0379
L. Toussaint (Denmark), S. Peters, R. Mikkelsen, S. Karabegovic, C. Bäumer, L.P. Muren, L. Tram-Henriksen, M. Høyer, Y. Lassen-Ramshad, B. Timmermann
- 14:55 **Longitudinal evaluation of Knowledge-based planning for prostate treatments** PH - 0380
A. Scaggion (Italy), M. Fusella, F. Dusi, B. El Khouzai, A. Germani, N. Pivato, A. Roggio, M.A. Rossato, M. Sepulcri, R. Zandonà
- 15:03 **Creating and Validating a Distributed RapidPlan Head and Neck ‘Super-Model’** PH - 0381
M. Frizzelle (United Kingdom), N. Lalli, A. Pediatitaki, C. Thomas, C. South, S. Jagadeesan, E. Adams, R. van der Straeten, W. Wiessler, R. Lynn

Track: Clinical

Poster highlights: Poster highlights 14: Head and neck 2

Sunday, 29 August 2021 14:15 - 15:30

Online Stream 2

Chair: Daniela Alterio

- 14:15 **Radiotherapy as nose preservation treatment for cancer of the nasal vestibule: the Dutch experience** PH - 0382
M. Czerwinski (The Netherlands), P. Jansen, E. Zwijnenburg, A. Al-Mamgani, M. Vergeer, J. Langendijk, F. Wesseling, J. Kaanders, C. Verhoef
- 14:23 **Hearing loss in nasopharyngeal carcinoma survivors in modern era – Effect of radiation and cisplatin** PH - 0383
P.L. Yip (Hong Kong (SAR) China), K.C.J. Mok, A.C.L. Wong, F.C.S. Wong, K.W. Yeung, S.F. Lee
- 14:31 **Risk of stroke in nasopharyngeal cancer survivors: a national registry-based, population cohort study** PH - 0384
T.H. Tan (Singapore)
- 14:39 **Modulations of salivary microbiota during radiotherapy for head and neck cancer** PH - 0385
E. Gioscio (Italy), N.A. Iacovelli, R. Ingargiola, A. Cavallo, L. De Cecco, S. Alfieri, P. Bossi, N. Facchinetti, M.S. Serafini, A. Devecchi, C. Bergamini, F. Badenchini, T. Rancati, R. Valdagni, E. Orlandi

14:47 **NTCP modeling for late radiation-associated taste impairment in oropharyngeal cancer patients** PH - 0386

S. Stieb (USA), G.M. Engeseth, L.V. van Dijk, A.S. Mohamed, R. He, I. Perez-Martinez, S. Rock, T.S. Deshpande, A.S. Garden, D.I. Rosenthal, S.J. Frank, G.B. Gunn, C.D. Fuller

14:55 **Mandible osteoradionecrosis: a dosimetric study** PH - 0387

L. Humbert-Vidan (United Kingdom), V. Patel, R.H. Begum, M. McGovern, D. Eaton, A. Kong, I. Petkar, M. Reis Ferreira, M. Lei, A.P. King, T. Guerrero Urbano

15:03 **Development of guideline for dental care in head and neck cancer patients prior to radiation therapy** PH - 0388

A. Oladega (Canada), D. Mojdami, A. Hope, E. Watson, M. Glogauer

Track: Interdisciplinary

Award lecture: C Regaud Award

Sunday, 29 August 2021 16:00 - 16:20

Plenary

16:00 **Introduction** SP - 0389
A. Kiiirby (United Kingdom)

16:05 **Hypofractionation for breast cancer and some other things** SP - 0390
J. Yarnold (United Kingdom)

Track: Interdisciplinary

Award lecture: Iridium Award

Sunday, 29 August 2021 16:20 - 16:40

Plenary

16:20 **Introduction** SP - 0391
I. Jürgenliemk-Schulz (The Netherlands)

16:25 **Merits and challenges for Multicatheter Interstitial Brachytherapy (MCBT) in the treatment of Breast Cancer** SP - 0392
E. Van Limbergen (Belgium)

Track: Interdisciplinary

Proffered papers: Proffered papers 22: Functional and biological imaging

Sunday, 29 August 2021 16:45 - 17:45

N101-102

Chair: Gert Meijer

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Chair: Rob Coppes

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16:45	Intravoxel incoherent motion MRI, a potential alternative for DCE MRI in prostate cancer patients	OC - 0393
	<i>E. Kooreman, <u>P. van Houdt (The Netherlands)</u>, V. van Pelt, M. Nowee, F. Pos, U. van der Heide</i>	
16:55	Early prediction of tumour changes in NSCLC patients during radiotherapy	OC - 0394
	<i><u>L.M. Amugongo (United Kingdom)</u>, E. Vasquez Osorio, A. Green, D. Cobben, M. van Herk, A. McWilliam</i>	
17:05	Ex vivo validation of PET imaging for response based dose-painting of NSCLC	OC - 0395
	<i>T. Meijer, J. de Swart, C. Groenendijk, L. Maat, R. Kanaar, D. van Gent, J. von der Thüsen, <u>S. Petit (The Netherlands)</u></i>	
17:15	Decrease in tumour blood flow during radiation predicts overall survival in rectal cancer	OC - 0396
	<i><u>K. Bakke (Norway)</u>, S. Meltzer, E. Grøvik, A. Negård, S.H. Holmedal, L.T.G. Mikalsen, L.G. Lyckander, F.M.I. Julbø, A. Bjørnerud, K. Gjesdal, A.H. Ree, K.R. Redalen</i>	
17:25	Quantitative analysis of diffusion weighted imaging in rectal cancer during MR-Linac radiotherapy	OC - 0397
	<i><u>M. Ingle (United Kingdom)</u>, M.D. Blackledge, I. White, S. Lalondrelle, S. Hafeez, S. Bhide</i>	
17:35	Stability of multiparametric MR imaging biomarker-derived dose prescriptions for glioblastoma	OC - 0398
	<i><u>C. Brighi (Australia)</u>, D. Waddington, A. Walker, L. Holloway, F. Aly, E. Koh, P. Keall</i>	

Track: Radiobiology

Proffered papers: Proffered papers 23: Radiation response and biomarkers

Sunday, 29 August 2021 16:45 - 17:45

N104

Chair: Leoni Kunz-Schughart

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Chair: Marc Vooijs

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16:45	Co-occurrence of APOBEC3B and Homologous Recombination Deficiency is Rare in Breast Cancer	OC - 0399
	<i><u>P. Span (The Netherlands)</u>, M. Jarvis, J. Martens, R. Harris, P. Roelofs</i>	
16:55	The mutational landscape of cancer's sensitivity to ionizing radiation	OC - 0400
	<i><u>M. Abazeed (USA)</u>, T. Bera, J. Castrillon, A. Petty, B. Yard, P. Gopal</i>	

- 17:05 **Avoidance of DNA Replication Stress Leads to Decreased Cytosolic DNA in Breast Cancer Stem Cells** OC - 0401
F. Meyer (Germany), A. Engel, A. Krause, T. Wagner, L. Poole, A. Dubrovskaya, C. Peitzsch, C. Petersen, K. Rothkamm, K. Borgmann
- 17:15 **Metabolomics as predictor of treatment response in neoadjuvant chemoradiation for rectal cancer** OC - 0402
C. Rosa (Italy), F.C. Di Guglielmo, L. Gasparini, L. Caravatta, M. Di Tommaso, D. Pieragostino, P. Del Boccio, I. Cicalini, D. Genovesi
- 17:25 **MiR-200 family members as predictive biomarkers for radioresistance in cervical cancer** OC - 0403
A. Nilsen (Norway), T. Hillestad, V. Eide Skingen, E. Aarnes, C. Sæten Fjeldbo, T. Hompland, T. Sandø Evensen, G. Balle Kristensen, B. Grallert, H. Lyng
- 17:35 **Role of single nucleotide polymorphisms (SNPs) in high-grade gliomas treated with concomitant RTCT** OC - 0404
A. Gonnelli, F. Pasqualetti, A. Molinari, G. Gadducci (Italy), N. Giannini, G. Malfatti, P. Fabiola

Track: Clinical

Proffered papers: Proffered papers 24: Palliation

Sunday, 29 August 2021 16:45 - 17:45

Plenary

Chair: Francesco Cellini & TBC

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- 16:45 **Development and internal validation of an RPA-based pre-treatment decision tool for spinal SBRT** OC - 0405
R. Kowalchuk (USA), T. Mullikin, W. Harmsen, P. Rose, B. Siontis, D. Kim, B. Costello, J. Morris, J. Marion, B. Johnson-Tesch, R. Gao, S. Shiraishi, J. Lucido, D. Trifiletti, K. Olivier, D. Owen, B. Stish, M. Waddle, N. Laack, S. Park, P. Brown, K. Merrell
- 16:55 **Short-course palliative radiotherapy of advanced solid cancer (sharon project): a pooled analysis.** OC - 0406
E. Farina (Italy), F.A. Mauro, G. Macchia, F. Deodato, D. Pezzulla, S. Cilla, F. Cellini, G. Siepe, A. Zamagni, M.A. Sumon, K.A.F.M. Uddin, T. Wondemagegnhu, A.A. Woldemariam, B.T. Deressa, L. Caravatta, M. Buwenge, S. Cammelli, A.G. Morganti
- 17:05 **Quality of Life after Palliative Radiotherapy for Bone Metastases: Analysis of the PRESENT-cohort** OC - 0407
M. Bartels (The Netherlands), J. van der Velden, B. Pielkenrood, S. Gerlich, M. Bras, J. Verlaan, E. Monnikhof, M. Peters, Y. van der Linden, H. Verkooijen
- 17:15 **Higher-dose radiotherapy for metastatic spinal cord compression: First results of a phase II trial** OC - 0408
D. Rades (Germany), C. Staackmann, D. Lomidze, D. Lomidze, N. Jankarashvili, A. Navarro, F. Lopez, B. Šegedin, B. Groselj, A.J. Conde-Moreno, N.H. Holländer, S.E. Schild, J. Cacicedo

17:25 **Salivary gland Radiotherapy for Sialorrhea Treatment in Amyotrophic Lateral Sclerosis patients.** OC - 0409

A. Assouline (France), A. Schernberg, M. del Mar Amador, C. Morelot-Panzini, J. Gonzalez-Bermejo, T. Lenglet, N. Le Forestier, G. Bruneteau, F. Salachas, S. Delanian, P. Pradat

17:35 **Adequacy of pain treatment in radiotherapy departments: a multicentric study (ARISE)** OC - 0410

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

Track: Clinical

Proffered papers: Proffered papers 25: Upper GI

Sunday, 29 August 2021 16:45 - 17:45

Room 1

Chair: Karin Haustermans -

Chair: Thomas Brunner -

16:45 **The prognostic value of tumor markers in patients with resectable gastric cancer** OC - 0411

A. Slagter (The Netherlands), M. Vollebergh, I. Caspers, J. van Sandick, K. Sikorska, P. Lind, M. Nordsmark, H. Putter, J. Braak, E. Meershoek-Klein Kranenbarg, C. van de Velde, E. Jansen, A. Cats, H. van Laarhoven, N. van Grieken, M. Verheij

16:55 **Quality of life associated with survival in gastric cancer patients: Results from the CRITICS trial** OC - 0412

R. van Amelsfoort (The Netherlands)

17:05 **Definition Of Local REcurrence Site in resected pancreatic cancer: a multicentric study (DOLORES-1)** OC - 0413

A. Arcelli (Italy), F. Bertini, S. Strolin, G. Macchia, F. Deodato, S. Cilla, S. Parisi, A. Sainato, M. Fiore, P. Gabriele, D. Genovesi, F. Cellini, A. Guido, S. Cammelli, M. Buwenge, E. Loi, M. Renzulli, R. Golfieri, A.G. Morganti, L. Strigari

17:15 **Stereotactic body radiotherapy: neoadjuvant strategy of chemoradiation in pancreatic adenocarcinoma** OC - 0414

M.C. Rubio Rodríguez (Spain), X. Chen-Zhao, M. López, E. Sánchez-Suagar, O. Hernando, E. Vicente, Y. Quijano, H. Durán, S. Prados, S. Tabernero, A. Cubillo, R. Alvarez, I. Vázquez, M.L. Orgáz, D. Zucca, J. García Ruiz-Zorrila, A. Montero, R. Ciérvide, J. Valero, M. García-Aranda, B. Alvarez, R. Alonso, M. Núñez, M.A. de la Casa, P. Fernández-Letón

17:25 **Long-term outcomes of MR-guided SABR & on-table adaptive replanning for unresectable pancreas cancer** OC - 0415

M. Chuong (USA), K. Mittauer, R. Herrera, T. Romaguera, D. Alvarez, R. Kotecha, M. Hall, A. Kaiser, J. Bryant, J. McCulloch, A. Ucar, F. De Zarraga, S. Aparo, H. Asbun, R. Jimenez, G. Narayanan, S. Joseph, A. Gutierrez, M. Rubens

- 17:35 **Results of SBRT-SG-01, a prospective multicentric-study of SBRT for liver metastases.** OC - 0416
M.C. Rubio Rodríguez (Spain), F. Arias, X. Chen-Zhao, S. Flamarique, P. Fernández-Letón, M. Campo, M. López, M. Rodríguez, D. Zucca, D. Martínez, E. Sánchez-Saugar, F. Mañeru, J. García Ruiz-Zorrilla, P. García de Acilu, J. Valero, A. Montero, R. Ciérvide, B. Alvarez, M. García-Aranda, R. Alonso, M.A. de la Casa, L. Alonso, M. Nuñez, J. Martí, O. Hernando

Track: Physics

Proffered papers: Proffered papers 26: Treatment planning for proton therapy

Sunday, 29 August 2021 16:45 - 17:45

Room 2.1

Chair: Ana Vaniqui & TBC

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- 16:45 **Is a variable proton RBE considered in clinical practice? – ESTRO survey among 25 proton centres** OC - 0417
L. Heuchel (Germany), C. Hahn, J. Pawelke, B. Singers Sørensen, M. Dosanjh, A. Lühr
- 16:55 **European multi-centric study on variable proton RBE dose calculations for multiple anatomical sites** OC - 0418
C. Hahn (Germany), J. Ödén, A. Dasu, A. Vestergaard, J. Folsted Kallehaug, C. Pardi, F. Bourhaleb, A. Leite, L. de Marzi, E. Smith, A. Aitkenhead, M. Merchant, K. Kirkby, E.G.C. Troost, A. Lühr
- 17:05 **LET and RBE investigation of various structures for a cohort of proton neuro-oncological patients** OC - 0419
A. Vaniqui (The Netherlands), F. Vaassen, D. Di Perri, I. Compter, W. van Elmpt, M. Unipan
- 17:15 **A novel stochastic optimization method for handling uncertainty in combined proton-photon treatments** OC - 0420
S. Fabiano (Switzerland), N. Torelli, D. Papp, J. Unkelbach
- 17:25 **Towards a new optimization algorithm for Arc Proton Therapy treatment planning** OC - 0421
S. Wuyckens (Belgium), G. Janssens, E. Sterpin, J. Lee, K. Souris
- 17:35 **Proton-based SBRT of tumors in the liver: Prescription strategy, motion and interplay effects** OC - 0422
E. Worm (Denmark), R. Hansen, M. Høyer, B. Weber, H. Mortensen, P.R. Poulsen

Track: Physics

Proffered papers: Proffered papers 27: Large-scale assurance of quality

Sunday, 29 August 2021 16:45 - 17:45

Room 2.1

Chair: Coen Hurkmans & TBC

- 16:45 **Developing quality assurance tests for simultaneous PET-MR imaging for radiotherapy planning** OC - 0423
J. Wyatt (United Kingdom), E. Howell, H. McCallum, R. Maxwell
- 16:55 **Robust quality assurance criteria for deformable image registration for adaptive radiotherapy** OC - 0424
L. Bosma (The Netherlands), C. Zachiu, B. Denis de Senneville, B. Raaymakers, M. Ries
- 17:05 **Dosimetric effects of national guidelines in breast cancer radiotherapy 2008-2016 (DBCRT-Nation)** OC - 0425
L. Refsgaard (Denmark), T. Ravkilde, E. Riis Skarsø, E. Svitzer Yates, L. Bech Jellesmark Thorsen, B. Vrou Offeresen, S.S. Korreman
- 17:15 **Prospective knowledge-based planning for personalised plan QA in a multi-centre kidney SABR trial** OC - 0426
N. Hardcastle (Australia), O. Cook, X. Ray, A. Moore, K. Moore, D. Pryor, A. Rossi, F. Foroudi, T. Kron, S. Siva
- 17:25 **Statistical monitoring for a large multi-institutional clinical study in radiation oncology** OC - 0427
S. Ecker (Austria), C. Kirisits, Y. Seppenwoolde, A. De Leeuw, M. Schmid, A. Sturdza, J. Knoth, R. Pötter, K. Tanderup, R. Nout, N. Nesvacil
- 17:35 **Improving local Patient Specific Quality Assurance – a novel remote auditing approach** OC - 0428
J. Lehmann (Australia), M. Hussein, S. Siva, A. Moore, T. Standen, B. Subramanian, P. Greer, C. Clark

Track: RTT

Poster highlights: Poster highlights 15: Image-guided innovations in radiotherapy

Sunday, 29 August 2021 16:45 - 17:45

Online Stream 3

Chair: Maddalena Rossi

- 16:45 **Feasibility of tracking skeletal muscle mass changes by CBCT in HNC patients during radiotherapy** PH - 0429
W. Huang (China), Y. Pan, P. Tan, X. Gao, H. Zhang, Z. Li, H. Lin
- The benefits of pre-procedure planning in fiducial marker insertion for CyberKnife treatment** PH - 0430
Withdrawn

- 16:53 **Evaluation of microscopic tumor extension in localized stage non–small-cell lung cancer** PH - 0431
M. Schmitt (France), L. Aussenac, J. Seitlinger, V. Lindner, G. Noël, D. Antoni
- 17:01 **Treatment uncertainty for ultra- vs. standard-hypofractionated breast RT based on in-vivo dosimetry** PH - 0432
Y.A.C. FIAGAN (Belgium), E. Bossuyt, M. Machiels, D. Nevens, C. Billiet, P. Poortmans, T. Gevaert, D. Verellen
- 17:09 **DIBH SABR for abdominal tumors while monitoring with fiducial markers and triggered images** PH - 0433
K. Kisivan, C. Glavak, Z. Laszlo, M. Petone Csima, E. Somogyine Ezer, K. Mahr, A. Gulyban, Z. Kaposztas, F. Lakosi (Hungary)
- 17:17 **RTT verification of margin reduction strategy in rectal cancer short course radiotherapy** PH - 0434
L. Devlin (United Kingdom), G. Marshall, S. O’Cathail, H. Chemu, P. McLoone, A. Smith, S. Corish, A. Duffton

Track: Radiobiology

Poster highlights: Poster highlights 16: Radiobiology

Sunday, 29 August 2021 16:45 - 17:45

Online Stream 1

Chair: Ludwig Dubois -

- 16:45 **ADAM17-dependent paracrine and intercellular communication in response to irradiation** PH - 0435
F. Tschanz (Switzerland), V. Waller, I. Telarovic, M. Guckenberger, M. Pruschy
- 16:53 **Comprehensive screening for drugs that modify radiation-induced immune responses** PH - 0436
M. Okumura (Japan), J. Du, S. Kageyama, R. Yamashita, A. Motegi, H. Hojo, M. Nakamura, Y. Hirano, Y. Okuma, H.S. Okuma, K. Tsuchihara, A. Tetsuo
- 17:01 **Heart base irradiation causes functional changes in the conduction system: a pre-clinical model** PH - 0437
G. Walls (United Kingdom), M. Ghita, K. Edgar, E. Gill, A. Cole, S. Jain, L. Overman, R. Queen, S. Lisgo, C. Watson, D. Grieve, K. Williams, A. McWilliam, M. van Herk, K. Butterworth
- 17:09 **Effects of particle irradiation on human mesenchymal stromal cells** PH - 0438
A. Rühle (Germany), P. Dai, R. Lopez Perez, M. Strack, S. Brons, J. Debus, P. Wuchter, A. Grosu, P. Huber, N. Nicolay
- An innovative strategy in cancer treatment: Proton minibeam radiation therapy** PH - 0439
Withdrawn

17:17 **Investigating The Role of the cGAS-STING Pathway in Mediating Radiation Induced Bystander Effects** PH - 0440
P. Cahoon (United Kingdom), S.J. McMahon, K. Prise

17:25 **DNA- and mitochondrial damage may be involved in tamoxifen-induced radioresistance** PH - 0441
F. Naumann (The Netherlands), G. Adema, F. Sweep, J. Bussink, P. Span

Track: Clinical

Poster highlights: Poster highlights 17: Gynaecological

Sunday, 29 August 2021 16:45 - 17:45

Online Stream 2

Chair: Kathrin Kirchheiner -

16:45 **Risk of recurrence identified by MRI and FDG-PET in locally advanced cervical cancer patients** PH - 0442
K. Skipar (Norway), T. Hompland, K.V. Lund, E.S. Nakken, K. Bruheim, H. Lyng

16:53 **The role of 18FDG-PET/CT target volume delineation in locally advanced cervical cancer radiotherapy** PH - 0443
L. Vicenzi (Italy), S. Costantini, C. Di Carlo, F. Cucciarelli, C. Mariucci, A. Palucci, L. Burroni, M. Valenti, G. Mantello

17:01 **Optimal use of radiotherapy in the definitive treatment of non-bulky IB–IIA cervical cancer** PH - 0444
Y.J. Lim (Korea Republic of)

17:09 **Preliminary results of the Italian Retrospective Study on adjuvant radiotherapy for vulvar cancer** PH - 0445
C. Casà (Italy), G. Macchia, M. Ferioli, V. Lancellotta, M. Boccardi, A. Cerrotta, F. Tortoreto, E. Ippolito, C. Laliscia, A. Huscher, J. Di Muzio, A.G. Morganti, R. Lazzari, G. Ferrandina, L. Tagliaferri

17:17 **The impact of lymph node ratio in patients with stage IIIC endometrial carcinoma** PH - 0446
C. Onal (Turkey), S. Yuce Sari, G. Yavas, O.C. Guler, E. Yigit, E. Oymak, M. Gultekin, F. Yildiz

17:25 **Dosimetric predictor of urinary and bowel toxicity for exclusive adjuvant vaginal cuff brachytherapy** PH - 0447
E. Cerezo Druet (Spain), N. Sanmamed, Z. Aza, M. Fuentes, L. Gomez, M. Gaztañaga, P. Coronado, A. Doval, J. Corona, G. Vázquez

17:33 **Advanced Brachytherapy for Re-Irradiation in Gynaecological Malignancies: Outcomes and Toxicities** PH - 0448
G. Mulye (India), L. Gurrām, R. Mittal, S. Chopra, D. A., J. Ghosh, S. Gupta, S. T.S., A. Maheshwari, U. Mahantshetty

Monday
30 August
2021



Track: Interdisciplinary

Teaching lecture: Stem cells in radiation oncology

Monday, 30 August 2021 08:00 - 08:40

N101-102

Chair: Anthony Chalmers

-

08:00 **Stem cells in radiation oncology**
R. Copper (The Netherlands)

SP - 0449

Track: Clinical

Teaching lecture: The microbiome: An emerging concept impacting the tumour and normal tissue with implications for treatment personalisation

Monday, 30 August 2021 08:00 - 08:40

Plenary

Chair: Eric Deutsch

-

08:00 **The microbiome: An emerging concept impacting the tumour and normal tissue with implications for treatment personalisation**
A. Levy (France)

SP - 0450

Track: Clinical

Teaching lecture: Which techniques and delineation for craniospinal irradiation?

Monday, 30 August 2021 08:00 - 08:40

Room 1

Chair: Anne LAPRIE

-

08:00 **Which techniques and delineation for craniospinal irradiation?**
L. Padovani (France)

SP - 0451

Track: Physics

Teaching lecture: Treatment plan quality assessment

Monday, 30 August 2021 08:00 - 08:40

Room 2.1

Chair: Christian Rønn Hansen

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08:00 **Treatment plan quality assessment**
V. Hernandez (Spain), C. Rønn Hansen, L. Widesott, N. Jornet

SP - 0452

Track: Physics

Teaching lecture: Respiratory motion interventions for high precision radiotherapy

Monday, 30 August 2021 08:00 - 08:40

Room 2.1

Chair: Antje-Christin Knopf & Cássia O. Ribeiro & TBC -

08:00 **Respiratory motion interventions for high precision radiotherapy** SP - 0453
M. Josipovic (Denmark)

Track: RTT

Teaching lecture: Evidence-based approach for optimising clinical processes in radiotherapy

Monday, 30 August 2021 08:00 - 08:40 N103

Chair: Philipp Scherer -

08:00 **Evidence-based approach for optimising clinical processes in radiotherapy** SP - 0454
B. Soares Vieira (Portugal)

Track: Young

Teaching lecture: Mental health prevention - Tips to stay healthy, recognise the signs of burnout

Monday, 30 August 2021 08:00 - 08:40 N104

Chair: Pierfrancesco Franco -

08:00 **Mental health prevention - Tips to stay healthy, recognise the signs of burnout** SP - 0455
D. Carrieri (UK)

Track: Interdisciplinary

Symposium: State-of-the-art in lung cancer

Monday, 30 August 2021 08:45 - 10:00 N101-102

Chair: Esther Troost -

Chair: Nicolaus Andratschke -

08:45 **Target volume delineation and fractionation in locoregionally advanced NSCLC and SCLC** SP - 0566
D. De Ruyscher (The Netherlands)

09:03 **Evidence for prophylactic cranial irradiation in NSCLC and SCLC** SP - 0567
P. Putora (Switzerland)

09:21 **Overview of systemic treatments in metastasised NSCLC** SP - 0568
R. Dziadziuszko (Poland)

09:39 **Shared-decision making in the treatment of lung cancer** SP - 0569
O. Damman (The Netherlands)

Track: Clinical

Symposium: Salvage treatment for radiotherapy-recurrent primary prostate cancer

Monday, 30 August 2021 08:45 - 10:00

Plenary

Chair: Morten Høyer

-

Chair: Andrea Lancia

-

08:45 **Immediate local or deferred therapy: The role of prognostic factors and novel imaging modalities** SP - 0460
W. Majewski (Poland)

09:03 **The role of EBRT: Can we give second chances?** SP - 0461
B. Jereczek-Fossa (Italy)

09:21 **The role of brachytherapy** SP - 0462
A. Bossi (France)

09:39 **The role of surgery** SP - 0463
S. Joniau (Belgium)

Track: Clinical

Symposium: New developments in head and neck cancer radiotherapy

Monday, 30 August 2021 08:45 - 10:00

Room 1

Chair: Daniela Alterio

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Chair: Olgun Elicin

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08:45 **Current status of IMPT versus VMAT in head and neck cancer** SP - 0464
M. Krenqli (Italy), C. Pisani, P. Franco

09:10 **Dose painting in head and neck radiotherapy** SP - 0465
D. Thorwarth (Germany), F. Paulsen, C. Pfannenber, G. Reischl, C. La Fougère, D. Zips, S. Welz

09:35 **Reirradiation in head and neck cancer** SP - 0466
P. Blanchard (France)

Track: Physics

Proffered papers: Proffered papers 28: Automated planning

Monday, 30 August 2021 08:45 - 10:00

Room 2.1

08:45 **Chair: Steven Petit** -

08:45 **Chair: Jan Unkelbach** -

08:45 **Multi-criterial optimization of 200-400 MeV electron beams for strong improvement of photon VMAT** OC - 0467
A.W. Sharfo (The Netherlands), J. Dijkstra, B. Heijmen, D. Lathouwers, S. Breedveld

08:54 **Implementation of a Knowledge-Based automated approach for whole breast tangential field planning** OC - 0468
P.G. Esposito (Italy), R. Castriconi, P. Mangili, S. Broggi, A. Fodor, B. Longobardi, M. Pasetti, L. Perna, N. Di Muzio, A. Del Vecchio, C. Fiorino

09:03 **inter-institute variability of kb-models for whole breast irradiation with tangential field** OC - 0469
A. tudda (Italy), R. castriconi, E. cagni, G. benecchi, F. dusi, P. esposito, M. guernieri, A. ianiro, V. landoni, A. mazzilli, E. moretti, L. placidi, V. trojani, A. scaggion, C. fiorino

09:12 **Development and validation of an automated robust treatment planning method for lung proton therapy** OC - 0470
R. Canters (The Netherlands), V. Taasti, D. Hattu, J. Van Loon, D. De Ruyscher

09:21 **Computerized selection of non-coplanar beams to enhance coplanar VMAT for nasopharyngeal carcinoma** OC - 0471
R. Bijman (The Netherlands), J. Leitão, A.W. Sharfo, Y. Brus, B. Heijmen, L. Rossi

09:30 **Automated and clinical-criteria-driven optimal planning: clinical experience with over 3400 patients** OC - 0472
L. Hong (USA), M. Zarepisheh, Y. Zhou, Q. Huang, G. Jhanwar, J. Yang, H. Pham, L. Cervino, J. Yamada, J. Deasy

09:39 **Pre-clinical validation of a novel TPS for fully-automated multi-criterial treatment planning** OC - 0473
R. Bijman (The Netherlands), A.W. Sharfo, L. Rossi, S. Breedveld, B. Heijmen

09:48 **Bias and reporting quality of artificial intelligence models in radiotherapy treatment planning** OC - 0474
M. Sharabiani (Belgium), E. Clementel, N. Andratschke, N. Reynaert, W. van Elmpt, C. Hurkmans

Track: Physics

Symposium: The role of deep learning in CBCT-based workflows

Monday, 30 August 2021 08:45 - 10:00

Room 2.2

Chairs: Alberto Traverso, Guillaume Landry & Marco Mueller

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08:45 **Deep learning-based CBCT image intensity correction for adaptive radiotherapy** SP - 0475
M. Maspero (The Netherlands)

09:04 **The use of deep-learning based CBCT segmentation in adaptive radiotherapy** SP - 0476
X. Yang (USA), Y. Lei, J. Roper, P. Patel, A. Jani, J. Bradley, T. Liu

09:23 **Self-attention Condition GAN for Synthetic CT Generation from CBCT for Head and Neck Radiotherapy** OC - 0477
 Canceled

09:32 **Neural network based synthetic CTs for adaptive proton therapy of lung cancer** OC - 0478
A. Thummerer (The Netherlands), P. Zaffino, C. Seller Oria, A. Meijers, G. Guterres Marmitt, J. Seco, J. Langendijk, A. Knopf, M.F. Spadea, S. Both

09:41 **Towards CBCT-guided online adaptive radiotherapy for prostate cancer patients** OC - 0479
L. Zwart (The Netherlands), F. Ong, L. ten Asbroek, E. van Dieren, S. Koch, A. Bhawanie, E. de Wit, J. Dasselaar

09:50 **Range probing as a quality control tool for CBCT based synthetic CTs: an in vivo demonstration** OC - 0480
C. Seller Oria (The Netherlands), A. Thummerer, J. Free, J.A. Langendijk, S. Both, A.C. Knopf, A. Meijers

Track: RTT

Symposium: Innovations in radiotherapy practice

Monday, 30 August 2021 08:45 - 10:00

N103

Chair: Maeve Kearney

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Chair: Madalyne Chamberlain

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08:45 **SBRT in cardiac diseases: The evolving role of the RTT** SP - 0481
K. Pilling (United Kingdom)

- 09:10 **SGRT - A hype or the new standard of practice?** SP - 0482
S. Perryck (Switzerland), M. Guckenberger
- 09:35 **Innovative practice for lymphoma radiotherapy - Can we use protons for this?** SP - 0483
I. Kristensen (Sweden), M. Enmark, A. Edvardsson

Track: Young

Symposium: Mobility/Grant reports

Monday, 30 August 2021 08:45 - 10:00

N104

Chair: Dora Correia -

Chair: Monica-Emilia Chirilă -

- 08:45 **Implementation of MR-guided radiotherapy to treat oligometastases** SP - 0484
H. Saxby (United Kingdom)
- 09:00 **Federated (distributed) radiomics across three European Radiation Oncology centers** SP - 0485
I. Zhovannik (The Netherlands)
- 09:15 **SBRT in clinical practice for pancreatic tumours** SP - 0486
M. Kountouri (Switzerland)
- 09:30 **Skin effects after breast radiotherapy: Focus on biological features** SP - 0487
A. Cicchetti (Italy)
- 09:45 **Transitioning from 2D to IMRT in head and neck cancer** SP - 0488
J. Paraqas (Philippines)

Track: RTT

Poster highlights: Poster Highlights 18: Radiotherapy treatment outcome

Monday, 30 August 2021 08:45 - 09:45

Online Stream 1

Chair: Daniel Megias -

- 08:45 **How can we predict permanent xerostomia after radiotherapy in patients with head and neck cancer?** PH - 0489
M. Bruvo (Denmark), A.M.L. Pedersen, E. Samsøe, C. Maare, F. Mahmood

- 08:53 **Deep learning predicts survival for early stage NSCLC patients treated with SBRT** PH - 0490
S. Zheng, J. Guo, J. Langendijk, S. Both, R. Veldhuis, M. Oudkerk, P. van Ooijen, R. Wijsman, N. Siitsema (The Netherlands)
- 09:01 **Clinical stereotactic ablative body radiotherapy on patients with early-stage inoperable lung cancer** PH - 0491
R. Yeo (United Kingdom), P. Nariyangadu, N. Shah, Y. Tsang
- 09:09 **Modesty in breast cancer patients during radiotherapy: interim results of a multicentric study** PH - 0492
L. Boldrini (Italy), C. Elia, V. Pollutri, L. Dinapoli, M. Caliandro, S. Manfreda, V. Masiello, D. Chieffo, M. Balducci, F. Marazzi, F. Gregucci, M.A. Gambacorta, S.P. Colangione, A. Fiorentino, V. Valentini
- 09:17 **The impact of anal VMAT on radiotherapy skin reactions** PH - 0493
L. Buckley (United Kingdom), M. Theodoulou, V. Lavin, P. Bridge
- 09:25 **Treatment outcomes of stereotactic ablative radiotherapy on oligometastases from colorectal cancer** PH - 0494
J. Duong (United Kingdom), A. Steward-Lord, P. Nariyangadu, M. Harrison, Y. Tsang

Track: Clinical

Poster highlights: Poster Highlights 19: Upper GI

Monday, 30 August 2021 08:45 - 09:45

Online Stream 2

Chair: Marianne Nordmark -

- 08:45 **A multivariable prediction model for severe toxicity after chemoradiation for esophageal cancer** PH - 0495
C. Muijs (The Netherlands), E. Oldehinkel, A. Pattipeiluhu, A.G. Niezink, V.E. Mul, M. Dieters, B. Etten van, A. Schaaf van de, J.A. Langendijk
- 08:53 **incidence and pattern of LRR in esophageal cancer patients treated with iCT followed by neoadj CRTT** PH - 0496
G. rossi (Italy), N. Simoni, R. Rossi, M. Venezia, M. Pavarana, P. Del Bianco, C. Cavedon, G. De Manzoni, R. Mazzarotto
- 09:01 **Local treatment including RT for HCC with portal invasion: a matched analysis using nationwide data** PH - 0497
C.H. Rim (Korea Republic of), H.A. Lee
- 09:09 **Stereotactic body radiation therapy for the management of hepatocellular carcinoma** PH - 0498
I. Roquette (France), E. Bogart, T. Lacornerie, M. Ningarhari, M. Le Deley, E. Lartigau, X. Mirabel, D. Pasquier

09:17	SABR as a treatment option for HCC patients: efficacy and toxicity profile	PH - 0499
	<i>R. Carlevato, V. Chiofalo, <u>L. Spinelli (Italy)</u>, F.R. Giglioli, P. Carucci, E. Rolle, G. Rizza, R. Faletti, R. Romagnoli, G.M. Saracco, P. Fonio, G.C. Iorio, A.S. Guarneri, U. Ricardi</i>	
09:25	Outcome analysis in locally advanced pancreatic cancer: a predictive model (PAULA-1)	PH - 0500
	<i>A. Arcelli (Italy), G. Tarantino, M. Buwenge, G. Macchia, F. Bertini, A. Guido, F. Deodato, S. Cilla, V. Scotti, M.E. Rosetto, I. Djan, S. Parisi, G.C. Mattiucci, F. Cellini, M. Fiore, P. Bonomo, L. Belgioia, R.M. Niespolo, P. Gabriele, M. Di Marco, N. Simoni, R. Mazzarotto, A.G. Morganti</i>	
09:33	Plan Adaptation in Patients with Abdominopelvic Tumors Treated with Stereotactic MR-Guided Adaptive Radiotherapy	PH - 0501
	<i>R. Kotecha (USA), R. Herrera, M. Chuong, M. Rubens, K. Mittauer, T. Romaguera, D. Alavrez, J. McCulloch, D. Doty, M. Hall, J. Contreras, A. Gutierrez, M. Mehta</i>	

Track: Interdisciplinary

Proffered papers: Proffered papers 29: New technologies

Monday, 30 August 2021 10:30 - 11:30 N101-102

Chair: Núria Jornet & TBC -

10:30	Real-time cardiorespiratory motion management for MRI-guided stereotactic arrhythmia radioablation	OC - 0502
	<i>O. Akdag (The Netherlands), P. Borman, P. Uijtewaal, P. Woodhead, J. Kok, B. Van Asselen, B. Raaymakers, M. Fast</i>	
10:40	Characterisation of cardiac and respiratory motion in cone-beam CT images for cardiac SABR	OC - 0503
	<i>J. Daniel (United Kingdom), K. Burke, P. Whitehurst</i>	
10:50	Quality Assurance and Clinical Acceptability for AI-driven Automatic Contouring of Organs at Risk	OC - 0504
	<i>N. Dissler, S. Stathakis, A. Lombard, <u>N. Paragios (France)</u>, G. Klausner, L. Lahmi, W. Jones III, E. Maani</i>	
11:00	Distributed comparative patient selection in the DAHANCA35 RCT of protons vs photons for H&N cancer	OC - 0505
	<i>C.R. Hansen (Denmark), J. Friberg, P. Skyt, P. Sibolt, M.S. Nielsen, E.H. Samsøe, A.I. Holm, J. Johansen, R. Zukauskaitė, E. Andersen, M. Andersen, M. Farhadi, J.G. Eriksen, J. Overgaard, C. Grau, K. Jensen</i>	
11:10	Ultra-fast scintillator-based dosimeter for pencil beam scanning proton FLASH therapy	OC - 0506
	<i>E. Kanouta (Denmark), J. Johansen, G. Kertzscher, M. Sitarz, B. Sørensen, P. Poulsen</i>	
11:20	Microbeams excellent tumour control and high normal tissue tolerance: limitations and perspectives	OC - 0507
	<i>V. Dionov (Switzerland), C. Fernandez, V. Trappetti, J. Fazzari, O. Martin</i>	

Track: Clinical

Proffered papers: Proffered papers 30: Urology

Monday, 30 August 2021 10:30 - 11:30

Plenary

Chair: Filippo Alongi

10:30 **ESTRO ACROP Guideline on Prostate Bed Delineation for Postoperative Radiotherapy in Prostate Cancer** OC - 0508

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

10:40 **10-year outcome of ultrahypofractionated stereotactic RT from two multicenter prostate cancer trials** OC - 0509

R. Meier (USA), I. Kaplan, D. Bloch, R. Chen, B. Kane, G. Henning, S. Woodhouse, T. Royce, C. Cotrutz, D. Fuller

10:50 **SABR +/- pelvic nodal irradiation for higher risk prostate cancer. A randomized feasibility study** OC - 0510

C. Fairmichael (United Kingdom), K.M. Redmond, S.O. Osman, C. Lyons, D.M. Mitchell, J.M. O'Sullivan, A.J. Cole, V. Giacometti, G.S. Lundy, D.M. Irvine, C.K. McGarry, A.R. Hounsell, S. Jain

11:00 **Urethra and bladder dose-effect relations for genitourinary toxicity after EBRT for prostate cancer** OC - 0511

V. Groen (The Netherlands), M. van Schie, N.P. Zuithoff, E.M. Monninkhof, M. Kunze-Busch, J.C. de Boer, J. van der Voort van Zijp, F.J. Pos, R.J. Smeenk, K. Haustermans, S. Isebaert, C. Draulans, H.M. Verkooijen, U.A. van der Heide, L.G. Kerkmeijer

11:10 **Impact of modern radiotherapy on subsequent hematological cancer risk in prostate cancer survivors** OC - 0512

M. Jahreiß (The Netherlands), K. Aben, A. Bertoen, M. Dirx, M. Hoogeman, L. Incrocci, R. Nout, W. Heemsbergen

11:20 **Acute toxicity of hypo- and conventionally-fractionated radiosensitised bladder radiotherapy** OC - 0513

R. Huddart (United Kingdom), S. Hafeez, A. Omar, A. Choudhury, A. Birtle, I. Syndikus, B. Hindson, M. Varughese, A. Henry, D. McLaren, F. Foroud, A. Webster, H. McNair, A. Tolentino, L. Webster, H. Gribble, L. Philipps, A. Nikapota, O. Parikh, R. Alonzi, R. Mahmood, S. Hilman, Y. Rimmer, C. Griffin, E. Hall

Track: Clinical

Proffered papers: Proffered papers 31: Head and neck

Monday, 30 August 2021 10:30 - 11:30

Room 1

Chair: Hans Langendijk

Chair: Pierre Blanchard

10:30	Long-term follow up of a RCT of Accelerated Radiotherapy for early Glottic Cancer (JCOG 0701A3)	OC - 0514
	<i>T. Kodaira (Japan), Y. Kagami, R. Machida, N. Shikama, Y. Ito, S. Ishikura, Y. Saito, Y. Matsumoto, K. Konishi, N. Murakami, T. Akimoto, Y. Fukushima, T. Toshiyasu, K. Nakagawa, Y. Nagata, H. Ogawa, T. Uno, Y. Hamamoto, Y. Nishimura</i>	
10:40	NBTXR3 activated by radiotherapy in cisplatin-ineligible locally advanced HNSCC patients	OC - 0515
	<i>C. Le Tourneau (France), V. Calugaru, Z. Takacs-Nagy, X. Liem, Z. Papai, V. Moreno, I. Braña, S. Salas, G. Poissonnet, E. Calvo, B. Doger, O. Choussy, X. Mirabel, S. Krhili, K. Bernois, N. Fakhry, S. Wong Hee Kam, E. Borcoman, C. Hoffmann</i>	
10:50	Local control in HNSCC after introduction of geometric margins in DAHANCA radiotherapy guidelines	OC - 0516
	<i>R. Zukauskaitė (Denmark), J. Grau Eriksen, E. Andersen, J. Johansen, E. Samsøe Hinsby, S. Long Krogh, J. Overgaard, C. Grau, C. Rønn Hansen</i>	
11:00	Importance of dose to the parotid gland stem cell rich region in preventing xerostomia in RT for HNC	OC - 0517
	<i>M.I. van Rijn - Dekker (The Netherlands), P. van Luijk, L. Van den Bosch, J.G. van den Hoek, E. Oldehinkel, T.W. Meijer, J.A. Langendijk, R.J. Steenbakkers</i>	
11:10	Impact of observer knowledge on AI delineation assessments: Bias in clinical acceptability testing	OC - 0518
	<i>J.W. Kim (Korea Republic of), J. Marsilla, J. Weiss, D. Tkachuk, J.K. Jacinto, J. Cho, E. Hahn, S. Bratman, B. Haibe-Kains, A. Hope</i>	
11:20	Feasibility of local proton-photon plan comparison in a national proton trial in head-neck cancer	OC - 0519
	<i>J. Friberg (Denmark)</i>	

Track: Physics

Proffered papers: Proffered papers 32: Image acquisition and processing

Monday, 30 August 2021 10:30 - 11:30

Room 2.2

Chair: Charlotte Robert & TBC

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10:30	CT calibration for precise proton therapy planning in children	OC - 0520
	<i>E. Baer (United Kingdom), C. Collins-Fekete, V. Rompokos, Y. Zhang, M. Gaze, A. Warry, A. Poynter, G. Royle</i>	
10:40	A deep learning approach to generate synthetic CT in low field MR-guided radiotherapy for lung cases	OC - 0521
	<i>D. Cusumano (Italy), J. Lenkowicz, C. Votta, M. Nardini, L. Boldrini, L. Placidi, F. Catucci, N. Dinapoli, M.V. Antonelli, A. Romano, V. De Luca, G. Chiloiro, L. Indovina, V. Valentini</i>	

10:50	Cell-Rad: Towards Histology-driven Radiation Oncology from Multi-Parametric MRI <i>A. Leroy (France), K. Shreshtha, M. Lerousseau, T. Henry, T. Estienne, M. Classe, N. Parajos, E. Deutsch, V. Grégoire</i>	OC - 0522
11:00	Cardiac-Synchronized T1 mapping on the Unity MR-linac to guide STereotactic Arrhythmia Radioablation <i>S. Mandija (The Netherlands), O. Akdag, A. van Lier, P. Borman, T. Schakel, E. Alberts, O. van der Heide, R. Hassink, M. Alings, J. Verhoeff, F. Mohamed Hoesein, M. Fast</i>	OC - 0523
11:10	Evidence supporting anal and rectal cancer MR-only radiotherapy planning clinical implementation <i>D. Bird (United Kingdom), M. Nix, M. Tyyger, M. Beasley, H. McCallum, M. Teo, N. Casanova, R. Cooper, A. Gilbert, D. Buckley, D. Sebag-Montefiore, A. Henry, R. Speight, B. Al-Qaisieh</i>	OC - 0524
11:20	HarMonAE: Zero-shot, unsupervised harmonisation of multi-scanner MRI for radiotherapy applications <i>M. Nix (United Kingdom), M. Tyyger, K. Fatania, B. Al-Qaisieh</i>	OC - 0525

Track: Physics

Proffered papers: Proffered papers 33: Outcome modelling 1

Monday, 30 August 2021 10:30 - 11:30

Room 2.2

Chair: Ane Appelt

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Chair: Leonard Wee

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10:30	Deep learning based time-to-event prediction for a large multicentric cohort of H&N cancer patients <i>E. Lombardo (Germany), C. Kurz, S. Marschner, M. Avanzo, V. Gagliardi, G. Fanetti, G. Franchin, J. Stancanella, S. Corradini, M. Niyazi, C. Belka, K. Parodi, M. Riboldi, G. Landry</i>	OC - 0526
10:40	Tumour Repopulation Varies Between Sequential vs. Concurrent Chemoradiation in Lung Cancer <i>H. Huang (United Kingdom), M.G. Nix, J.D. Fenwick, M.A. Hawkins</i>	OC - 0527
10:50	Model-based assessment of hypoxia dose painting in NSCLC patients treated with PBS proton therapy <i>A. Köthe (Switzerland), N. Bizzocchi, S. Safai, A.J. Lomax, D.C. Weber, G. Fattori</i>	OC - 0528
11:00	Actuarial NTCP modeling of contrast-enhancing brain lesions in proton-treated glioma patients <i>E. Bahn (Germany), J. Bauer, S. Harrabi, K. Herfarth, J. Debus, M. Alber</i>	OC - 0529

- 11:10 **Local TCP and NTCP after radioactive plaque therapy for uveal melanoma: a data pooled analysis** OC - 0530
L. Cella (Italy), F. Buonanno, M. Conson, C. de Almeida Ribeiro, C. Oliviero, F. Itta, R. Liuzzi, R. Pacelli, S. Clemente
- 11:20 **a probabilistic biological atlas for prostate cancer** OC - 0531
R. Finnegan (Australia), H.M. Reynolds, Y. Sun, M.A. Ebert, L. Holloway, J. Sykes, J. Dowling, A. Haworth

Track: RTT

Proffered papers: Proffered papers 34: Image-guided radiotherapy and treatment verification

Monday, 30 August 2021 10:30 - 11:30

N103

Chair: Maeve Kearney -

Chair: Rita Simoes -

- 10:30 **IV contrast-enhanced CBCT position verification for SBRT of ventricular tachycardia.** OC - 0532
C. van Gijlswijk (The Netherlands), E. Astreinidou, M. de Ridder, K. Zeppenfeld, M. Hol, C. Rasch
- 10:40 **Two Centre Feasibility study of single fraction lung stereotactic ablative radiotherapy (SABR)** OC - 0533
Z. Jani (United Kingdom), M. Chiu, S. Petkar, A. Blower, H. Grimes, N. Lalli, R. Akasha, D. Johnson, S. Masinghe, G. Kumar, S.A.A. Moinuddin, S. Dubash, C. Peedell, J. Wilson, E. Aynsley, C. Hiley
- 10:50 **Image review for COVID-19 on CBCT vs MIP's** OC - 0534
A. Clough (United Kingdom), J. Sanders, K. Banfil, C. Faivre-Finn, G. Price, C. Eccles, M. Aznar, M. Van-Herk
- 11:00 **Comparison of a surface-based (SGRT) vs. a laser-based setup in breast cancer radiation therapy.** OC - 0535
M. Machiels, F. Horácio (Belgium), N. De Dooij, W. Vingerhoed, D. Nevens, C. Billiet, P. Meijnders, P. Poortmans, D. Verellen
- 11:10 **A feasibility trial of buscopan to improve cone beam CT image quality during abdominal/pelvic SABR** OC - 0536
F. Slevin (United Kingdom), M. Beasley, J. Zhong, E. Hudson, R. Speight, J. Lilley, L. Murray, A. Henry
- 11:20 **Interfractional changes of rectum and bladder effect on uterus position in cervix external beam RT** OC - 0537
Y.M. Tsang (United Kingdom), E. Sulaili, A. Steward-lord, D. Megias, H. Tharmalingam, P. Hoskin

Track: Young

Symposium: Make the best use of online resources and meetings for remote (net)working

Monday, 30 August 2021 10:30 - 11:30

N104

Chair: Faisal Mahmood

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Chair: Mateusz Spalek

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- 10:30 **Starting a networking group in a virtual environment** SP - 0538
M. Aznaar (UK)
- 10:45 **Conducting research and teaching remotely** SP - 0539
J. Dhont (Belgium)
- 11:00 **Working from home - Yay** SP - 0540
M. Chamberlain (Switzerland)
- 11:10 **Working from home - Nay** SP - 0541
J. Heukelom (The Netherlands)
- 11:20 **Discussion: If yay, what is the ideal balance?** SP - 0542
F. Mahmood (Denmark)

Track: Physics

Poster highlights: Poster Highlights 20: Treatment and planning evaluation

Monday, 30 August 2021 10:30 - 11:30

Online Stream 1

Chair: Edmond Sterpin

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- 10:30 **Identifying treatment errors for lung cancer patients using EPID dosimetry and deep learning** PH - 0543
C. Wolfs (The Netherlands), R. van Doormaal, E. de Jong, R. Canters, F. Verhaegen
- 10:38 **Clinical impacts of managing motion in kidney stereotactic ablative body radiotherapy** PH - 0544
M. Gaudreault (Australia), S. Siva, T. Kron, N. Hardcastle
- 10:46 **Daily and accumulated dose based on residual errors for pancreas SABR using two different approaches** PH - 0545
Y. Ez-zyouy, A. Gulyban (Belgium), C. Bouchart, N. Reynaert

- 10:54 **Proton therapy guidelines for treating targets with adjacent cardiac implantable electronic devices** PH - 0546
L.B. Stick (Denmark), P.M.T. Lægdsmand, H.L. Bjerre, M. Høyer, M.F. Jensen, B.V. Offersen, C.J.S. Kronborg
- 11:02 **Quality assurance of Treatment Planning Systems: upgrading the NCS report 15** PH - 0547
Y. Jourani (Belgium), A. Delor, W. Crijns, G. Bol, R.G.J. Kierkels, C.L. Ong, J. Penninkhof, E. van der Bijl, T.A. van de Water, W. Verbakel, D. Schuring, R. Westendorp, J. van de Kamer
- 11:10 **Pareto Navigation Guided Automated Planning for Extreme Hypo-fractionated Prostate Radiotherapy** PH - 0548
S. Berenato (United Kingdom), N. Abbott, O. Woodley, M. Chu, N. Palaniappan, A. Millin, P. Wheeler
- 11:18 **Anatomical evaluation of the breast treatment planning strategy for the randomised DBCG proton trial** PH - 0549
M. Fuqslang Jensen (Denmark), L.B. Stick, I. Bahij, M. Giørtz, M. Høyer, C.J.S. Kronborg, E.L. Lorenzen, H.R. Mortensen, P.W. Nyström, S.E. Petersen, R.L. Poulsen, P. Randers, L.M.H. Thai, E.S. Yates, B.V. Offersen

Track: Clinical

Poster highlights: Poster Highlights 21: Hyperthermia

Monday, 30 August 2021 10:30 - 11:30

Online Stream 2

Chair: Johannes Crezee

- 10:30 **Importance of high thermal dose in post-operative re-irradiation and hyperthermia in breast cancer** PH - 0550
C. Tello Valverde (The Netherlands), A. Bakker, G. van Tienhoven, M.W. Kolff, H.P. Kok, B.J. Slotman, I.R. Konings, A.L. Oei, H.S. Oldenburg, E.J. Rutgers, C.R. Rasch, H.D. van den Bongard, H. Crezee
- 10:38 **Modulated electro-hyperthermia improves three year survival in cervical cancer patients** PH - 0551
C. Minnaar (South Africa), J. Kotzen, A. Baeyens, M. Vangu, C. Minnaar
- 10:46 **Imaging-based patient selection in MR-guided hyperthermia for locally advanced cervix cancer** PH - 0552
I. VilasBoas-Ribeiro (The Netherlands), S. Curto, G.C. van Rhoon, M. Franckena, M.M. Paulides
- 10:54 **Prognostic factors in hyperthermia-based thermoradiochemotherapy for locally advanced rectal cancer** PH - 0553
Y. LEE (Korea Republic of), S. Kim, S.H. You

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|-------|--|-----------|
| 11:02 | Re-irradiation and concurrent Hyperthermia for recurrent brain tumors: an initial experience | PH - 0554 |
| | <i>C. Silva (Portugal), M. Amorim, M.A. Costa, C. Fardilha, J. Conde, G. Campos, P. Genésio, A. Moreira Pinto, A. Cruz, P. Costa</i> | |
| 11:10 | Modulated electro-hyperthermia plus systemic cancer treatment in digestive cancer. A safety study. | PH - 0555 |
| | <i>E.E. Arrojo Alvarez (Spain), J.C. Mazabuel Quintero, D. Arribas Crespo, A. Serrano Escalada, J. Anchuelo Latorre</i> | |
| 11:18 | Thermo-Chemo-Radiotherapy: preliminary feasibility assessment in a single centre experience | PH - 0556 |
| | <i>M. Fiore (Italy), G. D'Ercole, G.M. Petrianni, L. Marinelli, P. Trecca, S. Ramella</i> | |

Track: Interdisciplinary

Proffered papers: Highlights of proffered papers - Best Papers and Paper Awards

Monday, 30 August 2021 11:40 - 12:20

Plenary

Chair: Wouter van Elmpt

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Chair: Anna Kirby

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|-------|--|-----------|
| 11:40 | AI-based NSCLC detection and segmentation: faster and more prognostic than manual segmentation | OC - 0557 |
| | <i>S. Primakov (The Netherlands), A. Ibrahim, J. van Timmeren, G. Wu, S. Keek, M. Beuque, R. Granzier, M. Scrivener, S. Sanduleanu, E. Kayan, I. Halilaj, J. Wu, R. Monshouwer, H. Gietema, L. Hendriks, O. Morin, A. Jochems, H. Woodruff, H. Woodruff, P. Lambin</i> | |
| 11:50 | Presentation of Jack Fowler - University of Wisconsin Award
<i>Chair Wouter van Elmpt (The Netherlands)</i> | |
| 11:50 | No correlation between mean heart dose and coronary stenosis in 17,088 DBCG breast cancer patients | OC - 0558 |
| | <i>M.L. Milo (Denmark), D.S. Møller, T.B. Nyeng, L. Hoffmann, I. Jensen, H.D. Nissen, E.L. Lorenzen, K.M. Nielsen, L.B.J. Thorsen, S.P. Johnsen, J. Alsner, B.V. Offersen</i> | |
| 12:00 | Experiences implementing a Radiation Therapist-led oncology prehabilitation program during COVID-19 | OC - 0559 |
| | <i>E. Bennett (Ireland), T. Clifford, F. Cregan, E. O'Neill, D. Spillane, M. Hickey, P. Kelly</i> | |
| 12:10 | Impact of 4D-CT imaging protocol on local control in SBRT of lung and liver metastases | OC - 0560 |
| | <i>T. Gauer (Germany), T. Sentker, V. Schmidt, L. Wimmert, A. Ozga, C. Petersen, F. Madesta, C. Hofmann, R. Werner</i> | |

12:20 **In vivo validation and tissue sparing factor for acute damage of pencil beam scanning proton FLASH** OC - 0561

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

12:30 **Announcement of Donal Hollywood Award winning abstract**
Chair Anna Kirby (UK)

Track: Young

Young lunch symposium + networking: Diversity, Equity and Inclusion

Monday, 30 August 2021 12:45 - 14:15

N104

Chair: Jenny Bertholet -

Chair: Stephanie Kroeze -

12:45 **Equity and diversity in the workforce** SP - 0563
J Pollard- Larkin (USA)

13:15 **Equitable patient care around the globe** SP - 0564
J. Van Dyk (Canada)

13:45 **yESTRO Project on equity and diversity** SP - 0565
A. Gasnier (France)

Track: Interdisciplinary

Joint symposium: ESTRO-ASTRO: FLASH radiotherapy from a multidisciplinary prospective

Monday, 30 August 2021 14:15 - 15:30

N101-102

Chair: Ben Slotman -

Chair: Ted Dewese -

14:15 **FLASH radiotherapy from a multidisciplinary perspective** SP - 0456
P. Poortmans (Belgium)

14:33 **A review of what is known, and what needs to be explored, in chemistry and biology** SP - 0457
D. Spitz (USA)

14:51 **Clinical application of proton-FLASH from dog trial to humans** SP - 0458
K. Cengel (USA)

15:09 **FLASH: ready for the clinic?** SP - 0459
J. Bourhis (CH)

Track: Clinical

Debate: Rectal spacers for prostate radiotherapy - The farther the better?

Monday, 30 August 2021 14:15 - 15:30

Plenary

Chair: Bradley Pieters -

Chair: Pierre Blanchard -

14:15 **For the motion** SP - 0570
B. Vanneste (The Netherlands)

14:35 **Against the motion** SP - 0571
C. Parker (United Kingdom)

14:55 **Rebuttals + Discussion**

Track: Clinical

Symposium: New opportunities for radio-immunotherapy in head and neck cancer

Monday, 30 August 2021 14:15 - 15:30

Room 1

Chair: Jesper Grau Eriksen -

Chair: Franziska Eckert -

14:15 **Biological basis for radiotherapy combined with immunotherapy in head and neck PD1/PD-L1** SP - 0575
E. Deutsch (France)

14:40 **PD-L1 expression and HPV in neck and head cancer: The rationales for a new treatment approach** SP - 0576
J.G. Eriksen (Denmark)

15:05 **Combining radiotherapy and check point immune inhibitors in head and neck cancer: Preclinical and clinical approaches.** SP - 0577
K. Harrington (United Kingdom)

Track: Physics

Symposium: Next steps in automated treatment planning

Monday, 30 August 2021 14:15 - 15:30 Room 2.1

Chair: Ben Heijmen -

Chair: Wilko Verbakel -

14:15 **Opportunities, challenges and added-value of multi-institutional knowledge-based models** SP - 0578
R. Castriconi (Italy)

14:40 **Deep learning in planning – Knowledge-based planning or more?** SP - 0579
E. Sterpin (Belgium)

15:05 **Deep learning and/or mathematical optimisation for automated planning** SP - 0580
S. Breedveld (The Netherlands)

Track: Physics

Symposium: Image guidance in particle therapy: From state-of-the-art towards real-time ART

Monday, 30 August 2021 14:15 - 15:30 Room 2.2

Chair: Petra Trnkova -

Chair: Håkan Nyström -

14:15 **Patterns of practice and guideline development: A status update from the EPTN image guidance working group** SP - 0581
A. Bolsi (Switzerland), A. Hoffmann

14:33 **Online CBCT-based proton range and dose calculation** SP - 0582
C. Kurz (Germany)

14:51 **4D imaging and online motion management** SP - 0583
A. Knopf (Germany)

15:09 **Towards MR-integrated proton therapy** SP - 0584
B. Oborn (Australia)

Track: RTT

Debate: This house believes that in the next 5 years the current RTT education curriculum will be obsolete

Monday, 30 August 2021 14:15 - 15:30

N103

Chair: Yat Man Tsang

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Chair: Maddalena Rossi

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14:15 **For the motion**

SP - 0585

M. Kearney (Ireland)

14:35 **Against the motion**

SP - 0586

H. Nisbet (United Kingdom)

14:55 **Rebuttals + Discussion**

Track: Young

Symposium: Project from A to Z in a hot or new topic Where do you start? And how to publish?

Monday, 30 August 2021 14:15 - 15:30

N104

Chair: René Winter

-

Chair: Mateusz Spalek

-

14:15 **Starting in FLASH RT**

SP - 0590

V. Favaudon (France)

14:30 **Cardiac radioablation**

SP - 0591

M. Fast (The Netherlands)

14:45 **Learning machine learning**

SP - 0592

J. Kazmierska (Poland)

15:00 **How to get a new topic published? (from an editor about how to publish new types of research, level of detail for still-unfamiliar audience.)**

SP - 0593

TBC

15:15 **Publishing interdisciplinary science**

SP - 0594

M. Leech (Ireland)

Track: Physics

Poster highlights: Poster Highlights 22: Dosimetry 2

Monday, 30 August 2021 14:15 - 15:15

Online Stream 1

Chair: Markus Stock

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- 14:15 **Radiation dose to tissue inside 3D printed titanium and PEEK scaffolds: Monte Carlo simulation** PH - 0595
G. Katsifis (Australia)
- 14:23 **Relationship between treatment logs and pre-treatment QA results from a Halcyon 2.0 linac** PH - 0596
D. Sánchez-Artuñedo (Spain), M. Hermida-López
- 14:31 **Commissioning and clinical implementation of myQAiON for proton independent dose calculation (IDC)** PH - 0597
L. Grevillot (Austria), R. Dreindl, R. Fayos-Solà Capilla, A. Elía, M. Bolsa-Ferruz, J. Gora, A. Amico, F. Padilla-Cabal, A. Carlino, M. Stock
- 14:39 **Variance-based sensitivity analysis of inter-observer, range and setup variability in proton therapy** PH - 0598
J. Hofmaier (Germany), F. Walter, I. Hadi, M. Rottler, R. von Bestenbostel, G. Dedes, K. Parodi, M. Niyazi, C. Belka, F. Kamp
- 14:47 **Three-dimensional dosimetric verification of spot-scanning proton therapy in a breast-shaped phantom** PH - 0599
S.E. Jensen (Denmark), L. Barbosa Valdetaro, M. Fuglsang Jensen, P. Balling, P. Sandegaard Skyt, J. Breede Baltzer Petersen, L. Paul Muren
- 14:55 **3D in-vivo dosimetry for detecting interplay effect: a phantom study** PH - 0600
F. BILTEKIN (Turkey), G. OZYIGIT
- 15:03 **3D dosimetry with a novel fast optical CT scanner utilizing fiber optic taper for collimated images** PH - 0601
C. Wu (USA), Y. Wang, X. Qian, Y. Na, J. Adamovics, A. Xu

Track: Clinical

Poster highlights: Poster Highlights 23: CNS 2

Monday, 30 August 2021 14:15 - 15:15

Online Stream 2

Chair: Silvia Chiesa

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- 14:15 **Effect of radiation therapy on cerebral cortical thickness in glioma patients** PH - 0602
J. Kallehauge (Denmark), C.S. Byskov, L. Haldbø-Classen, A. Harbøll, S. Lukacova

14:23	Clinical implementation of standardized neuro-cognitive assessment after radiation to the brain <i>C. Zegers (The Netherlands), C. Offermann, J. Dijkstra, I. Compter, F. Hoebbers, D. de Ruyscher, M. Anten, W. Backes, A. Postma, W. van Elmpt, D. Eekers</i>	PH - 0603
14:31	Hippocampal Sparing WBRT: Trade-Off Between Tumor Control And Quality Of Life? A series of 150 pts <i>G. Corrao (Italy), L. Bergamaschi, V.E. Pierini, A. Ferrari, G. Piperno, G. Marvaso, G. Riva, I. Cavallo, F. Emiro, M. Pepa, M. Zaffaroni, S. Gandini, M.C. Leonardi, F. Cattani, R. Orecchia, B.A. Jereczek-Fossa</i>	PH - 0604
14:39	Role of hippocampal location and radiation dose in glioblastoma patients with hippocampal atrophy <i>N. Georges (France), C. Le Fevre, M. Loit, A. Keller, H. Cebula, D. Antoni, A. Thiery, J. Constans, F. Proust</i>	PH - 0605
14:47	¹⁸F-FDG hippocampal metabolic preservation following hippocampal-sparing PCI in SCLC patients <i>S. El Chammah (Switzerland), G. Allenbach, R. Jumeau, S. Boughdad, J.O. Prior, M. Nicod Lalonde, N. Schaefer, M. Meyer</i>	PH - 0606
14:55	Intra-arterial bevacizumab after blood-brain barrier disruption for refractory radiation necrosis <i>S. Dashti (USA), R. Kadner, B. Folley, J. Sheehan, D. Han, R. Kryscio, M. Carter, L. Shields, B. Plato, R. La Rocca, A. Spalding, T. Yao, J. Fraser</i>	PH - 0607
15:03	A national study on the inter-observer variability in delineation of organs at risk in the brain <i>E.L. Lorenzen (Denmark), J.F. Kallehauge, J.F. Kallehauge, C.S. Byskov, R.H. Dahlrot, C.A. Haslund, T.L. Guldborg, Y. Lassen-Ramshad, S. Lukacova, A. Muhic, P.W. Nyström, L. Haldbo-Classen, I. Bahij, L. Larsen, B. Weber, C. Rønn Hansen, C.R. Hansen</i>	PH - 0608

Track: Interdisciplinary

Award lecture: K Breur Award

Monday, 30 August 2021 16:00 - 16:20

Plenary

16:00	Introduction <i>B. Slotman (The Netherlands)</i>	SP - 0609
16:05	Value-based radiotherapy: turning evidence into practice. <i>Y. Lievens (Belgium)</i>	SP - 0610

Track: Interdisciplinary

Award lecture: Honorary Physicist Award

Monday, 30 August 2021 16:20 - 16:40

Plenary

- 16:20 **Introduction**
C. Clark (UK) SP - 0611
- 16:25 **Honorary what?**
C. Rash (The Netherlands), SP - 0612

Track: Interdisciplinary

Proffered papers: Proffered papers 35: Adaptive radiotherapy

Monday, 30 August 2021 16:45 - 17:45

N101-102

Chair: Filippo Alongi & TBC -

- 16:45 **Nine years of plan libraries for locally-advanced cervical cancer patients: what have we learned?** OC - 0613
D. Reijtenbagh (The Netherlands), J. Godart, J. Penninkhof, S. Quint, A. Zolnay, J.W. Mens, M. Hoogeman
- 16:55 **Patterns Of Practice in Adaptive and Real-Time Particle Therapy, part II: interfractional changes** OC - 0614
P. Trnkova (Austria), Y. Zhang, B. Heijmen, C. Richter, M. Aznar, F. Albertini, A. Bolsi, J. Daartz, A. Knopf, J. Bertholet
- 17:05 **Radiographer-led online image guided adaptive radiotherapy: A qualitative investigation** OC - 0615
E. Joyce (United Kingdom), H.A. McNair, G. O'Gara, M. Jackson, B. Peet, R.A. Huddart, T. Wiseman
- 17:15 **First VMAT delivery with MLC-tracking for single and multi fraction lung SBRT on a Unity MR-linac** OC - 0616
P. Uijtewaal (The Netherlands), P. Borman, P. Woodhead, C. Kontaxis, S. Hackett, J. Verhoeff, B. Raaymakers, M. Fast
- 17:25 **Gastric deformation models for adaptive radiotherapy: Personalized vs Population-based strategy** OC - 0617
M. Bleeker (The Netherlands), M.C. Hulshof, A. Bel, J. Sonke, A. van der Horst
- 17:35 **Feasibility CBCT-based online adaptive 5x5Gy radiotherapy for neoadjuvant rectal cancer treatment.** OC - 0618
M. Frank (The Netherlands), R. de Jong, J. Visser, N. van Wieringen, J. Wiersma, D. Geijsen, A. Bel

Track: Clinical

Proffered papers: Proffered papers 36: Lower GI

Monday, 30 August 2021 16:45 - 17:45

Plenary

Chair: Vincenzo Valentini

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Chair: Corrie Marijnen

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16:45 **Plasma HPV elimination patterns as strong predictor of outcome in primary Anal Cancer treatment** OC - 0619

A.C. Lefèvre (Denmark), N. Pallisgaard, C. Kronborg, K.L. Wind, S.N. Krag, K.G. Spindler

16:55 **A multicenter study on Intensity Modulated Radiotherapy techniques for anal carcinoma (RAINSTORM).** OC - 0620

L. Caravatta (Italy), G. Mantello, F. Valvo, F. Pierfrancesco, G. Lucrezia, C. Rosa, N. Slim, P. Pittoni, F. De Felice, M.A. Gerardi, S. Vagge, M. Krengli, E. Palazzari, M.F. Osti, G. Catalano, G.B. Ivaldi, A. Galardi, M. Lupattelli, R.M. Niespolo, A. Guido, G. Macchia, M.A. Gambacorta, M. Di Nicola, V. Donato, D. Genovesi

17:05 **Interim Safety Analysis and Preliminary Results of the Morpheus Phase III Study** OC - 0621

A. Garant, C. Vasilevsky, M. Boutros, F. Khosrow-Khavar, P. Kavan, H. Diec, S. Desgroseilliers, J. Faria, E. Ferland, V. Pelsser, A. Martin, S. Devic, K. Asiev, T. Vuong (Canada)

17:15 **Propensity- Score analysis of Proctectomy-TME vs Organ Preservation for Rectal cancer** OC - 0622

J. Gerard (France), L. Montagne, J. Doyen, B. Thamphyra, S. Gourgou, K. Benezery, J. Hannoun-Levi

17:25 **SMAD3 expression and genetic variation could predict response to chemoradiation in rectal cancer** OC - 0623

E. Palazzari (Italy), E. Cecchin, E. De Mattia, J. Polesel, R. Innocente, F. Navarria, C. Belluco, A. Lauretta, V. Canzonieri, A. Buonadonna, G. Spolverato, S. Pucciarelli, G. Franchin, G. Toffoli, A. De Paoli

17:35 **PTV margin assessment for an online adaptive MR-guided dose-escalation strategy in rectal cancer** OC - 0624

H. Eijkelenkamp (The Netherlands), M. Boekhoff, M. Verweij, F. Peters, G. Meijer, M. Intven

Track: Clinical

Proffered papers: Proffered papers 37: Immuno and targeted agents

Monday, 30 August 2021 16:45 - 17:45

Room 1

Chair: Matthias Guckenberger

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Chair: Emmanouil Fokas

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16:45	Immuno-radiotherapy in solid tumors: preliminary results of the randomized phase 2 CHEERS trial	OC - 0625
	<i>M. Spaas (Belgium), N. Sundahl, S. Rottey, V. Kruse, D. De Maeseneer, F. Duprez, P. Dirix, V. Surmont, Y. Lievens, R. Van den Begin, D. Van Gestel, V. Renard, D. Reynders, E. Goetghebeur, P. Ost</i>	
16:55	Toxicity of SRT combined with targeted agents: prospective analysis of the TOaSTT database	OC - 0626
	<i>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</i>	
17:05	A phase II trial of PD-1 inhibitor combined with Radiotherapy and GM-CSF (PRaG) in metastatic tumors	OC - 0627
	<i>L. Zhang (China), Y. Kong, P. Xing, X. Zhao, G. Chen, Y. Ma, L. Zou, Q. Peng, M. Xu, Z. Xu</i>	
17:15	Regional Control after Stereotactic Radiation therapy and Immunotherapy for NSCLC Brain Metastases	OC - 0628
	<i>J. Porte (France), C. Saint-Martin, T. Frederic-Moreau, M. Massiani, E. Jadaud, J. Otz, P. Verrelle, N. Girard, G. Créhange, A. Beddok</i>	
17:25	A hypoxia-immune prognostic classifier for head-and-neck cancer patients undergoing radiotherapy	OC - 0629
	<i>N. Nicolay (Germany), A. Rühle, M. Mix, N. Wiedenmann, R. Stoian, G. Niedermann, D. Baltas, M. Werner, J. Ruf, G. Kayser, A. Grosu</i>	
17:35	Olaparib combined with radiotherapy for TNBC: 1-year toxicity report of the RADIOPARP phase 1 trial	OC - 0630
	<i>P. Loap (France), D. Loirat, F. Berger, M. Rodrigues, L. Bazire, J. Pierga, F. Ricci, K. Cao, A. Vincent-Salomon, F. Laki, C. Ezzili, A. Jochem, L. Raizonville, V. Mosseri, M. Ezzalfani, A. Fourquet, Y. Kirova</i>	

Track: Physics

Proffered papers: Proffered papers 38: Treatment planning: applications

Monday, 30 August 2021 16:45 - 17:45

Room 2.1

Chair: Tony Lomax & TBC

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16:45	Proton and photon treatment planning comparison for oesophageal cancer between six European centres	OC - 0631
	<i>L. Hoffmann (Denmark), H. Mortensen, M. Berbee, N. Bizzocchi, R. Bütof, R. Canters, G. Defraene, M.L. Ehmsen, G.V. Freixas, K. Haustermans, E.W. Korevaar, S. Makocki, C.T. Muijs, M. Nordmark, M. Thomas, E.G. Troost, S. Visser, D.C. Weber, D.S. Møller</i>	
16:55	Radiation dose variations in treatment plans for pediatric ependymoma	OC - 0632
	<i>L. Toussaint (Denmark), P. Brandal, A. Embring, J. Engellau, M. Egeberg Evensen, R. Griskevicius, J. Hansen, H. Hietala, M. Jørgensen, P. Kramer, I. Kristensen, K. Lehtio, H. Magelssen, M. Vestmø Maraldo, K. Marienhagen, U. Martinsson, S. Peters, S. Plaude, D. Sendiuliene, B. Smulders, J.M. Søbstad, L. Vaalavirta, A. Vestergaard, B. Timmermann, Y. Lassen-Ramshad</i>	

17:05	Cardiac substructure avoidance in lung cancer using photon vs proton radiotherapy: A planning study <i>K. Banfill (United Kingdom), J. Wood, F. Charlwood, D. Lines, V. Rompokos, C. Hiley, M. van Herk, C. Faivre-Finn, M. Schmitt, A. Salem, A. McWilliam</i>	OC - 0633
17:15	Lymphocyte Sparing Radiation Therapy for stage III NSCLC: a dosimetric study <i>P. Fernandes (Belgium), Y. Jourani, W. Birkfellner, F. Charlier, A. Ferreira, G. Van de Ven, L. Moretti, E. Fardeau, D. Van Gestel, N. Reynaert</i>	OC - 0634
17:25	Breast IMRT or 3D-CRT planning? A decision-making framework using convolutional neural networks <i>P. Gallego Franco (Spain), J. Pérez-Alija, J. Chimeno, M. Lizondo, N. Jornet, C. Ansón, A. Latorre, M. Barceló, N. García, H. Vivancos, M. Adrià, A. Ruiz, P. Carrasco, E. Ambroa</i>	OC - 0635
17:35	Utilising diffusion-weighted MRI for isotoxic dose escalated radiotherapy for glioblastoma <i>Y. Pang (United Kingdom), M. Kosmin, Z. Li, X. Deng, X. Li, Y. Zhang, B. Ding, G. Royle, S. Manolopoulos</i>	OC - 0636

Track: Physics

Proffered papers: Proffered papers 39: Outcome modelling 2

Monday, 30 August 2021 16:45 - 17:45

Room 2.2

Chair: Laura Cella & TBC

16:45	Thoracic dose patterns associated with radiation induced lymphopenia in patients treated for NSCLC <i>S. Monti (Italy), L. Cella, T. Xu, R. Mohan, Z. Liao, G. Palma</i>	OC - 0637
16:55	Integrated radiogenomics analyses for outcome prognosis in patients with locally advanced HNSCC <i>A. Rabasco (Germany), A. Zwanenburg, A. Linge, F. Lohaus, M. Grosser, G. Baretton, G. Kalinauskaite, I. Tinhofer, N. Guberina, M. Guberina, P. Balermipas, J. von der Grün, U. Ganswindt, C. Belka, J.C. Peecken, S.E. Combs, S. Böcke, D. Zips, M. Baumann, E.G. Troost, M. Krause, S. Löck</i>	OC - 0638
17:05	Towards personalised treatment for prostate cancer: biology improves image-based data mining models <i>J. Shortall (United Kingdom), E. Vasquez Osorio, A. McWilliam, A. Green, A. Choudhury, P. Hoskin, C. West, B. Lane, T. Elumalai, N. Thiruthaneeswaran, B. Bibby, R. Rodrigues Pereira, M. van Herk</i>	OC - 0639
17:15	Dose-density interaction predicts local relapse and distant metastasis following lung SABR <i>A. Davey (United Kingdom), M. van Herk, C. Faivre-Finn, J. Lilley, F. Sun, K. Franks, A. McWilliam</i>	OC - 0640

17:25 **Radiation pneumonitis in thoracic cancer patients: multi-center voxel-based analysis** OC - 0641

G. Palma (Italy), S. Monti, R. Pacelli, Z. Liao, J.O. Deasy, R. Mohan, L. Cella

17:35 **A radiomics based prognostic model for patients with head and neck squamous cell carcinoma** OC - 0642

S. Keek (The Netherlands), F. Wesseling, H. Woodruff, J. van Timmeren, I. Nauta, T. Hoffmann, S. Cavalieri, G. Calareso, S. Primakov, R. Leijenaar, L. Licitra, M. Ravanelli, K. Scheckenbach, T. Poli, D. Lanfranco, M. Vergeer, R. Leemans, R. Brakenhoff, F. Hoebbers, P. Lambin

Track: RTT

Proffered papers: Proffered papers 40: Advances in RT planning

Monday, 30 August 2021 16:45 - 17:45

N103

Chair: Ilija Curic -

Chair: Anita O'Donovan -

16:45 **New VMAT non-coplanar solutions for mono-isocentric radiosurgery of multiple brain metastases** OC - 0643

I. Kuijper (The Netherlands), P. Van Duijvenvoorde, R. Kossen, B.J. Slotman, J. Cuijpers

16:55 **Hippocampal sparing radiotherapy for Low Grade Glioma** OC - 0644

A. Williamson (United Kingdom), P. Houston, J. Paterson, A. James, P. McLoone, S. Nowicki

17:05 **Head and neck radiotherapy on the MR-Linac: a multicentre planning challenge on MRIdian-platform** OC - 0645

M. Chamberlain (Switzerland), J. Krayenbühl, J.E. van Timmeren, L. Wilke, N. Andratschke, S. Tanadini-Lang, H. Garcia Schüler, M. Guckenberger, P. Balermipas

17:15 **Automatic tool for head and neck patient referral based on dose prediction with deep learning** OC - 0646

M. Huet Dastarac (Belgium), A.M. Barragán-Montero, S. Michiels, S. Teruel Rivas, E. Sterpin, J. Lee

17:25 **Improved robustness in oesophageal cancer treatment by diaphragm based position verification** OC - 0647

S. Visser (The Netherlands), L.A. den Otter, C. O.Ribeiro, E.W. Korevaar, S. Both, J.A. Langendijk, C.T. Muijs, N.M. Sijtsema, A. Knopf

17:35 **Dose escalation is feasible in short course radiotherapy of rectal cancer – a planning study** OC - 0648

L. Devlin (United Kingdom), B. Hunter, H. Chemu, P. McLoone, R. Valentine, P. Cornelious, A. Duffton, S. O'Cathail

Track: Young

Networking session: Quiz

Monday, 30 August 2021 16:45 - 17:45

N104

Chair: Ludwig Dubois

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Track: Physics

Poster highlights: Poster Highlights 24: Imaging acquisition and processing

Monday, 30 August 2021 16:45 - 17:45

Online Stream 1

Chair: Marcel van Herk

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- 16:45 **Left-ventricular MRI navigation: a novel approach for motion-free thoracic and cardiac radiotherapy** PH - 0649
A. van Lier (The Netherlands), O. Akdag, S. Mandija, P. Borman, E. Alberts, M. Fast
- 16:53 **Real-time multi-resolution image reconstruction for MR-guided prostate radiotherapy** PH - 0650
P. Borman (The Netherlands), T. Bruijnen, T. Schakel, B. Raaymakers
- 17:01 **MRI-based tumour localisation after clip placement for proton beam therapy of uveal melanoma** PH - 0651
J. Beenakker (The Netherlands), M. Jaarsma-Coes, T. Ferreira, M. Marinkovic, M. Rodrigues, Y. Klaver, K. Vu, B. Verbist, G. Luyten, C. Rasch
- 17:09 **Synthetic CT from MRI with deep learning: Assessing the clinical impact of generated errors** PH - 0652
E. Alvarez Andres (France), A. Gasnier, C. Veres, F. Dhermain, S. Corbin, F. Auville, B. Biron, A. Vatonne, T. Henry, T. Estienne, M. Lerousseau, L. Fidon, E. Deutsch, N. Parajos, C. Robert
- 17:17 **Deep learning based auto-segmentation: how much training data do we really need?** PH - 0653
J. Kleijnen (The Netherlands), J. Penninkhof, H. Akhiat, M. Hoogeman, S. Petit
- 17:25 **End-to-end head & neck tumor auto-segmentation using CT/PET and MRI without deformable registration** PH - 0654
J. Ren (Denmark), J.A. Nijkamp, J.G. Eriksen, S.S. Korreman
- 17:33 **Filling in the allegedly unknown: Detection and inpainting of interpolation artifacts in 4DCT images** PH - 0655
F. Madesta, T. Sentker, T. Gauer (Germany), R. Werner

Chair: Stefano Arcangeli

- 16:45 **Prediction of toxicity after prostate cancer RT: the value of a SNP-interaction polygenic risk score** PH - 0656
T. Rancati (Italy), M. Massi, N. Franco, B. Avuzzi, D. Azria, A. Choudhury, A. Cicchetti, D.R. Dirk, A. Dunning, R. Elliott, F. Ieva, S. Kerns, M. Lambrecht, A. Manzoni, A. Paganoni, B. Rosenstein, P. Seibold, E. Sperk, C. Talbot, A. Vega, L. Veldeman, P. Zunino, A. Webb, J. Chang-Claude, C. West
- 16:53 **Single-Fraction versus Double-Fraction HDR boost for high-risk prostate cancer: long-term outcomes** PH - 0657
A. Goñi Ramirez (Spain), B. De Paula Carranza, P. Fernández Gonzalo, E.M. Sáenz de Urturi, N. Bultó Boqué, M. Egiguren Bastida, M. Pagola, D.I. Ortiz de Urbina, D. Roura, J. Belloso, G. Garmendia, A. Ayete Andreu, V. Pastor Sanchis, A. Bartrés Salido, N. Suarez, M. Erzilbengoa, J. Rosa Nieto
- Impact of brachytherapy boost on toxicity, functional and cancer outcomes for prostate cancer** PH - 0658
Withdrawn
- 17:01 **Metastasis-free survival after salvage radiotherapy in post-operative prostate cancer patients in the PSMA PET/CT era – a bi-institutional, retrospective analysis** PH - 0659
N. Schmidt-Hegemann (Germany), A.L. Grosu, J. Ruf, C. Gratzke, S. Adebahr, C. Stief, P. Bartenstein, C. Belka, M. Li, C. Trapp, P. Rogowski, C. Zamboglou
- 17:09 **Independent role of dose-escalation and prophylactic WPRT in salvage RT after radical prostatectomy** PH - 0660
C. Cozzarini (Italy), A. Magli, D. Cante, B. Noris Chiorda, F. Munoz, A. Faiella, E. Olivetta, S. Marco Andrea, C. Piva, B. Avuzzi, L. Ferella, A. Pastorino, A. Fodor, C. Deantoni, N. Fossati, G. Gandaglia, G. Sanguineti, R. Valdagni, C. Fiorino, A. Briganti, F. Montorsi, N. Di Muzio
- 17:17 **survival analysis of brachytherapy alone vs. EBRT in unfavorable intermediate-risk prostate cancer** PH - 0661
N. Andruska (USA), B. Fischer-Valuck, R. Carmona, T. Agabalogun, R. Brenneman, H. Gay, J. Michalski, B. Baumann
- 17:25 **Clinical parameters and nomograms for predicting lymphnode metastasis detected with 68Ga-PSMA-PET/CT** PH - 0662
C. Onal (Turkey), G. Ozyigit, E. Oymak, O.C. Guler, P. Hurmuz, B. Tilki, M. Reyhan, M. Tuncel, F. Akyol

Tuesday
31 August
2021



Track: Interdisciplinary

Teaching lecture: The 4 Rs of radiobiology revisited in hypofractionated radiotherapy

Tuesday, 31 August 2021 08:30 - 09:10

N101-102

Chair: Brita Singers Sørensen

-

08:30 **The 4 Rs of radiobiology revisited in hypofractionated radiotherapy**

SP - 0663

M. Joiner (USA)

Track: Clinical

Teaching lecture: Multi-modality treatment of soft tissue sarcoma

Tuesday, 31 August 2021 08:30 - 09:10

Room 1

Chair: TBC

-

08:30 **Multi-modality treatment of soft tissue sarcoma**

SP - 0665

C. Le Pechoux (France), A. Levy

Track: Clinical

Teaching lecture: Distracting techniques for paediatric/AYA/adult radiotherapy

Tuesday, 31 August 2021 08:30 - 09:10

N105-N106

Chair: Henry Mandeville

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Chair: Silvia Chiesa

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08:30 **Distracting techniques for paediatric/AYA/adult radiotherapy**

SP - 0666

L. Claude (France)

Track: Physics

Teaching lecture: The medical device regulation and its implications for (your own) medical hard and software

Tuesday, 31 August 2021 08:30 - 09:10

Room 2.1

Chair: Mark Gooding

-

08:30 **The Medical Device Regulation (EU 2017/745) and its implications for (your own) medical hard and software**

SP - 0667

E. Roelofs (The Netherlands)

Track: Physics

Teaching lecture: Physics perspective of stereotactic cardiac ablation

Tuesday, 31 August 2021 08:30 - 09:10

Room 2.2

Chair: Raphaël Moeckli

-

08:30 **Physics perspective of stereotactic cardiac ablation**

SP - 0668

O. Blanck (Germany)

Track: RTT

Teaching lecture: Health literacy: The cornerstone of the patient's understanding of radiotherapy

Tuesday, 31 August 2021 08:30 - 09:10

N103

Chair: Maddalena Rossi

-

08:30 **Health literacy: The cornerstone of the patient's understanding of radiotherapy**

SP - 0669

A. Stewart-Lord (United Kingdom)

Track: Interdisciplinary

Symposium: RBE in proton therapy

Tuesday, 31 August 2021 09:15 - 10:30

N101-102

Chair: Hans Langendijk

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Chair: Ala Yaromina

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09:15 **RBE from the biological site**

SP - 0670

B.S. Sørensen (Denmark)

09:33 **The clinical impact of a variable RBE**

SP - 0671

H. Paganetti (USA)

09:51 **RBE from a physical point of view**

SP - 0672

A. Lühr (Germany)

10:09 **LET-guided treatment planning**

SP - 0673

D. Wagenaar (The Netherlands)

Track: Interdisciplinary

Symposium: Surface-guided radiotherapy

Tuesday, 31 August 2021 09:15 - 10:30

N104

Chair: Philipp Freislederer

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Chair: Elisabeth Steiner

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- 09:15 **Implementing SGRT in the clinic** SP - 0674
N. Weitkamp (Switzerland), S. Perryck, C. Linsenmeier, R. Dal Bello
- 09:40 **The challenge of surface-guided radiotherapy - When, and when not, to use it?** SP - 0675
V. Batista (Germany)
- 10:05 **Surface-guided radiotherapy for breast cancer in deep inspiration breath hold** SP - 0676
K.T. Beer (Switzerland)

Track: Clinical

Debate: Is it primetime for stereotactic radiotherapy for localised high-risk prostate cancer?

Tuesday, 31 August 2021 09:15 - 10:30

Room 1

Chair: Karin Haustermans -

- 09:15 **For the motion** SP - 0677
T. Zilli (Switzerland)
- 09:35 **Against the motion** SP - 0678
A. Tree (United Kingdom)

09:55 **Rebuttals + Discussion**

Track: Clinical

Symposium: Radiotherapy in oesophageal cancer

Tuesday, 31 August 2021 09:15 - 10:30

N105-N106

Chair: Astrid van Lier -

- 09:15 **To operate or not after neoadjuvant chemoradiation** SP - 0682
M. Nilsson (Sweden)
- 09:40 **The role of proton therapy in the treatment of esophageal cancer** SP - 0683
S. Lin (USA)
- 10:05 **How to deal with respiratory and cardiac movement?** SP - 0684
L. Hoffmann (Denmark), P.R. Poulsen, M. Nordmark, A. Hegener, M.L. Ehmsen, T.B. Nyeng, C.M. Lutz, T. Ravkilde, J. Bertholet, I. Kruhlikava, M. Dufour, H. Mortensen, M. Alber, D.S. Møller

Track: Physics

Debate: Hype or Hope? This house believes that the application of radiomics will significantly improve clinical outcome of radiotherapy by 2025

Tuesday, 31 August 2021 09:15 - 10:30

Room 2.1

Chair: Uwe Oelfke -

Chair: Andre Dekker -

09:15 **For the motion** SP - 0685

A. Traverso (The Netherlands)

09:35 **Against the motion** SP - 0686

A. Hope (Canada)

09:55 **Rebuttals + Discussion** SP - 0687

Track: Physics

Symposium: COVID-19: Lessons learned from a medical physics perspective

Tuesday, 31 August 2021 09:15 - 10:30

N103

Chair: Cristina Garibaldi -

Chair: Marianne Aznar -

09:15 **How did the first wave affect medical physics practice in Europe? ESTRO survey** SP - 0690

J. Bertholet, M. Aznar, C. Garibaldi, D. Thwaites, E. Gershvevitsh, D. Thorwarth, D. Verellen, B. Heijmen, C. Hurkmans, L. Muren, K. Røe Redalen, F. Siebert, M. Schwarz, W. Van Elmpt, D. Georg, N. Jornet, C. Clark (United Kingdom)

09:30 **Managing medical physics services COVID-19 in a regional hospital** SP - 0691

M. Saez-Beltran (Nicaragua)

09:50 **Managing medical physics services COVID-19 in a large academic department** SP - 0692

L. Spiazzi (Italy)

10:10 **Virtual VMAT QA prospective validation: towards measurement-free patient-specific quality assurance** OC - 0693

P. Wall (USA), E. Hirata, O. Morin, G. Valdes, A. Witztum

10:20 **Can remote planning be as efficient as on-site and become a definitive shift since COVID19?** OC - 0694

M. Colomer, D. Amat, A. López, G. Frontera, U. Gallardo, M. Parcerisa, R. Pujol, A. Peralta, T. Ramírez, D. Navarro, J. García-Miguel, T. Valdivielso (Spain), Á. Infestas, M. Lizondo, E. Ambroa

Track: RTT

Symposium: The use of telehealth in radiotherapy

Tuesday, 31 August 2021 09:15 - 10:30

N103

Chair: Aneta Borkowska & TBC

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09:15 **Experience of using telehealth for individualised supportive care and follow-up in radiotherapy** SP - 0695

P.K. Møller (Denmark), H. Pappot, U. Bernchou, T. Schytte, K.B. Dieperink

09:40 **Using an app to monitor patients' side effects: The Sympro Trial** SP - 0696

N. Billings (The Netherlands)

10:05 **Efficiency in remote treatment planning** SP - 0697

V. Jóhannesson (Sweden)

Track: Interdisciplinary

Symposium: State-of-the-art in prostate cancer

Tuesday, 31 August 2021 11:00 - 12:15

N101-102

Chair: Peter Hoskin

-

Chair: Piotr Wojcieszek

-

11:00 **The biological basis of heterogeneity in prostate cancer** SP - 0698

R. Bristow (UK)

11:20 **Radiotherapy for localised prostate cancer - How many modalities do we need? (30 mins)** SP - 0699

A. Loblaw (Canada)

11:50 **What really matters: Health system vs science** SP - 0700

A. Aggarwal (UK)

Track: Interdisciplinary

Symposium: MR Linacs - Do we really know what are we doing?

Tuesday, 31 August 2021 11:00 - 12:15

N104

Chair: Luca Boldrini

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Chair: Uwe Oelfke

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11:00	Clinical indications to MR Linac: SBRT and long-course treatment <i>F. Lagerwaard (The Netherlands)</i>	SP - 0701
11:25	Online adaptive therapy: From CBCT to MRI and the other way around <i>U. Oelfke (UK)</i>	SP - 0702
11:50	MR Linac RTT - A brand new professional figure? <i>D. de Jonge (The Netherlands)</i>	SP - 0703

Track: Clinical

Symposium: The evolving role of elective nodal irradiation in 2021 in head and neck, lung, breast and prostate cancer

Tuesday, 31 August 2021 11:00 - 12:15

Room 1

Chair: Ursula Nestle

-

Chair: Stefano Arcangeli

-

11:00	No ENI based on randomised evidence in NSCLC and SCLC <i>S. Ramella (Italy), C. Greco, M. Fiore, E. Ippolito</i>	SP - 0704
11:18	Elective nodal irradiation still part of the standard treatment in head and neck cancer <i>V. Grégoire (France)</i>	SP - 0705
11:36	Pelvic nodal irradiation or no nodal pelvic irradiation in prostate cancer, that is the question <i>A. Pollack (USA)</i>	SP - 0706
11:54	Adjuvant nodal irradiation in breast cancer <i>A. Kirby (United Kingdom)</i>	SP - 0707

Track: Clinical

Symposium: Recent developments in the treatment of rectal cancer

Tuesday, 31 August 2021 11:00 - 12:15

N105-N106

Chair: Sebastian Meltzer

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Chair: Vincenzo Valentini

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11:00	What radiotherapy dose do we need to achieve clinical complete response in early and advanced tumours? <i>A. Appelt (United Kingdom)</i>	SP - 0708
11:18	Radiosensitisation and systemic treatment to increase clinical complete response <i>E. Fokas (Germany)</i>	SP - 0709
11:36	Clinical experiences on total neoadjuvant therapy in rectal cancer <i>C. Marijnen (The Netherlands)</i>	SP - 0710
11:54	Personalised approaches towards organ preservation - Where are we now? <i>M.A. Gambacorta (Italy)</i>	SP - 0711

Track: Physics

Symposium: Proving the clinical benefit of 15 years of IGRT

Tuesday, 31 August 2021 11:00 - 12:15

Room 2.1

Chair: Ludvig Muren

-

Chair: Marcel van Herk

-

11:00	Heart sparing for lung radiotherapy <i>E. M. Vasquez Osorio</i>	SP - 0712
11:15	Proving the clinical benefit of 15 years of IGRT: modelling of toxicity for prostate radiotherapy <i>C. Fiorino (Italy)</i>	SP - 0713
11:30	Focal boosting in prostate cancer: The FLAME/hypoFLAME experience <i>U. van der Heide (The Netherlands)</i>	SP - 0714
11:45	IGRT for head and neck <i>M. Tomsej (Belgium)</i>	SP - 0715
12:00	MRI guided Brachytherapy <i>C. Kirisits (Austria)</i>	SP - 0716

Track: Physics

Symposium: Novel technology for treatment delivery and modulation: Flash, microbeams and spatio-temporal fractionation

Tuesday, 31 August 2021 11:00 - 12:15

Room 2.2

Chair: Michele Zeverino

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Chair: Wouter van Elmpt

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11:54	Spatially fractionated radiotherapy <i>Y. Prezado (France)</i>	SP - 0717
11:00	Targeting the Physics, but missing the Biology <i>N. Suchowerska (Australia)</i>	SP - 0718
11:18	FLASH radiotherapy <i>R. Moeckli (Switzerland)</i>	SP - 0719
11:36	Microbeam radiotherapy <i>M. Krisch (France)</i>	SP - 0720

Track: RTT

Symposium: The impact of immobilisation/positioning in advanced radiotherapy

Tuesday, 31 August 2021 11:00 - 12:15

N103

Chair: Philipp Scherer

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Chair: Colleen Dickie

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11:00	Patient positioning and immobilisation for advanced radiation therapy <i>L. Mullaney (Ireland)</i>	SP - 0721
11:25	Online adaptive radiotherapy - Is traditional immobilisation necessary? <i>S. Conijn (The Netherlands)</i>	SP - 0722
11:50	Immobilisation for proton in abdomen <i>J. Thiele (Germany)</i>	SP - 0723

Track: Interdisciplinary

Plenary session: Closing Debate: X-ray guided adaptive radiotherapy will make MR-linac obsolete

Tuesday, 31 August 2021 12:20 - 13:20

Room 2.1

Chair: Anna Kirby

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Chair: Ben Slotman

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12:20	For the motion <i>B. Heijmen (The Netherlands)</i>	SP - 0724
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12:35	Against the motion <u>B. Raaymakers (The Netherlands)</u>	SP - 0725
12:50	Rebuttal for the motion <u>P. Hoskin (UK)</u>	SP - 0726
13:05	Rebuttal against the motion <u>L. Boldrini (Italy)</u>	SP - 0727

Poster Discussions



Track: Clinical

Poster discussions: Poster discussion 1: Breast

-	Online
Significance of liver metastasis volume in breast cancer treated with stereotactic body radiotherapy	PD - 0728
<i><u>E. Oymak (Turkey), O.C. Güler, C. Önal</u></i>	
Underutilization of adjuvant radiation after nipple-sparing mastectomy	PD - 0729
<i><u>W. Talcott (USA), G.N. Marta, M.S. Moran</u></i>	
Convolutional Neural Network to predict Deep Inspiration Breath Hold eligibility using Chest X-Ray	PD - 0730
<i><u>K.S. Chufal (India), I. Ahmad, M.I. Sharief, A. Dwivedi, R. Bajpai, A.A. Miller, R.L. Chowdhary, K. Bhatia, M. Gairola</u></i>	
Improvement of a deep learning based automatic delineation model using anatomical criteria	PD - 0731
<i><u>T. Brion (France), E. Karamouza, L. De Vitry, A. Lombard, T. Roque, N. Paragios, G. Auzac, A. Lamrani-Ghaouti, N. Bonnet, E. Limkin, M. Ung, S. Bockel, D. Pasquier, S. Wong, H. trialists, S. Achkar, S. Rivera</u></i>	
Can we reduce clinician intervention in breast target volume auto-segmentation approvals?	PD - 0732
<i><u>C. Welgemoed (United Kingdom), E. Spezi, D. Gujral, R. McLauchlan, E. Aboagye</u></i>	
Tolerance of adjuvant moderate hypofractionated whole breast RT with simultaneous integrated boost	PD - 0733
<i><u>L. Hoeng (Switzerland), O. Unterkirhere, A. Kaefer, S. Abbeel, C. Glanzmann, G. Studer</u></i>	

Track: Clinical

Poster discussions: Poster discussion 2: CNS

-	Online
Validating Brain Metastases Velocity for survival prediction in patients treated with radiosurgery	PD - 0734
<i><u>M. Mayinger (Switzerland), K. Borsky, J. Kraft, S. Frei, L.S. Stark, J. van Timmeren, S. Tanadini-Lang, M. Guckenberger, N. Andratschke</u></i>	
Time-dependent machine learning survival prediction model of brain metastases with MRI radiomics	PD - 0735
<i><u>S.J.C. Crête (Canada), N.B. Campbell, R. Hu, J. Peoples, M. Yan, T. Olding, K. Tyryshkin, A.L. Simpson, F. Ynoe de Moraes</u></i>	

Interval between MRI and SRS is associated with local control in lung squamous cell brain metastasis PD - 0736

J.W. Ho (United Kingdom), L. Aznar-Garcia, J. Christian, P. Patel

Diagnosis-Specific Graded Prognostic Assessment in Patients Receiving Stereotactic Irradiation PD - 0737

N. Ota (Japan), K. Yasui, T. Asao, M. Shioi, K. Hayashi, Y. Ito, S. Maki, T. Onoe, H. Ogawa, H. Harada, H. Asakura, S. Murayama, S. Deguchi, K. Mitsuya, N. Hayashi, T. Nishimura

Radiosurgery in brain metastases: single vs multifraction treatment PD - 0738

A. Rese (Italy), M. Conte, F. Pastore, G. Ciaglia, A. Pepe, D. Toledo, G. Panelli, F. Francomacaro, V. Iorio

PET-imaging integration in recurrent glioblastoma treatment planning: impact on patient outcomes PD - 0739

A. Robertson (Germany), I. Yakushev, D. Bernhardt, S. Combs

Track: Clinical

Poster discussions: Poster discussion 3: Oligometastatic disease

- Online

Real-world patient & treatment characteristics of oligometastatic disease: results of OligoCare PD - 0740

M. Guckenberger (Switzerland), U. Ricardi, M. Scorsetti, P. Balermipas, Y. Lievens, F. Alongi, L. Livi, P. Braam, B.A. Jereczek-Fossa, K. Stellamans, L. Verbeke, H. Peulen, K. Khanfir, S. Ramella, T. Zilli, X. Geets, H. Hemmatazad, G.B. Ivaldi, I. Ratos, P. Jeene, B. Fournier, C. Fortpied, P. Ost

Application of the ESTRO/EORTC oligometastatic disease classification system to current evidence PD - 0741

D. Nevens (Belgium), A. Jongen, I. Kindts, C. Billiet, P. Deseyne, I. Joye, Y. Lievens, M. Guckenberger

Prognostic Value of The ESTRO EORTC Classification System of Oligometastatic Disease PD - 0742

J. Willmann (Switzerland), E. Vlaskou Badra, S. Adilovic, M. Ahmadsei, S.M. Christ, M.C. Mayinger, M. Guckenberger, N. Andratschke

Treatment patterns for adrenal metastases in the era of MR-guided stereotactic ablative radiotherapy PD - 0743

C. van Vliet (The Netherlands), F. Schneiders, A. Engelsman, S. Hashemi, I. Bahce, C. Haasbeek, A. Bruynzeel, F. Lagerwaard, M. Palacios, A. Becker-Commissaris, B. Slotman, C. Dickhoff, S. Senan

Phase II trial of SBRT and androgen deprivation for oligometastases in prostate cancer. PD - 0744

Withdrawn

Outcomes & predictors of progression: SBRT for lymph node oligorecurrent prostate cancer on PSMA-PET PD - 0745

A. Werensteijn-Honingh (The Netherlands), A. Wevers, M. Peters, P. Kroon, M. Intven, W. Eppinga, I. Jürgenliemk-Schulz

Track: Physics

Poster discussions: Poster discussion 4: Automated planning

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Online

Autoplanning and Personalized treatment planning automation in prostate cancer PD - 0746

S. Cilla (Italy), C. Romano, V.E. Morabito, P. Viola, G. Macchia, M. Buwenge, S. Cammelli, L. Strigari, A.G. Morganti, V. Valentini, F. Deodato

Knowledge-based approach for DVH prediction in robotic spine SBRT. PD - 0747

S. BROGGI (Italy), R. Castriconi, A. Tudda, C. Deantoni, A. Fodor, B. Longobardi, L. Perna, P. Mangili, N.G. Di Muzio, A. Del Vecchio, C. Fiorino

iCycle-Eclipse: a novel approach to automated multi-criterial treatment planning PD - 0748

K. Fjellanger (Norway), L.B. Hysing, B.J.M. Heijmen, H.E.S. Pettersen, I.M. Sandvik, T.H. Sulen, S. Breedveld, L. Rossi

Tangential VMAT and IMRT for WBI compared using automated multi-criterial treatment planning PD - 0749

L. redapi (Italy), L. rossi, L. marrazzo, J. J.Penninkhof, S. pallotta, B. Heijmen

When your MR Linac is down: can an automised pipeline bail you out of trouble? PD - 0750

L. Placidi (Italy), D. Cusumano, A. Alparone, L. Boldrini, G. Chiloiro, A. Romano, M. Nardini, V. Valentini, L. Indovina

The effect of organ-at-risk contour variations on automatically generated treatment plans for NSCLC PD - 0751

F. Vaassen (The Netherlands), C. Hazelaar, R. Canters, S. Peeters, S. Petit, W. van Elmpt

Track: Physics

Poster discussions: Poster Discussion 5: Optimising and generating CT images

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Online

Synthetic CT generation from cone-beam CT using deep-learning for breast adaptive radiotherapy PD - 0752

X. Wang (China), W. Jian, X. Zhou, H. Meng, Y. Chen, G. Yang, S. Zhang, Z. Wang, X. Tan, Z. Dai

Unsupervised AutoConfidence estimation for deep-learning synthetic-CT in MR-only liver radiotherapy PD - 0753

M. Nix (United Kingdom), D. Bird, M. Tyyger, B. Al-Qaisieh

Automatic synthetic-CT generation from unpaired T2w pelvis MRIs using ensembled self-supervised GANs PD - 0754

A. Lombard, K. Shreshtha (France), M. Nachbach, T. Roque, D. Thorwarth, N. Paragios

Training modality conversion models with small data and its application to MVCT to kVCT conversion PD - 0755

S. Ozaki (Japan), S. Kaji, K. Nawa, T. Imae, A. Aoki, T. Nakamoto, T. Ohta, Y. Nozawa, A. Haga, K. Nakagawa

In-vivo assessment of tissue parameters with intra- and inter-patient variation using dual-energy CT PD - 0756

N. Peters (Germany), A. Kieslich, P. Wohlfahrt, C. Hofmann, C. Richter

Low dose cone beam CT for paediatric image-guided radiotherapy: how much dose is enough? PD - 0757

A. Bryce-Atkinson (United Kingdom), R. De Jong, T. Marchant, G. Whitfield, M.C. Aznar, A. Bel, M. van Herk

Track: Radiobiology

Poster discussions: Poster discussion 6: Normal tissues and Immunoradiobiology

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Online

Fraction Size Sensitivity (α/β ratios) For Late Genitourinary Toxicities After Prostate EBRT PD - 0758

D. Brand (United Kingdom), S. Brüningk, A. Wilkins, O. Naismith, A. Gao, I. Syndikus, D. Dearnaley, N. van As, E. Hall, S. Gulliford, A. Tree

Immune and cell cycle differentially expressed pathways underlie late skin radiotherapy toxicity PD - 0759

E. Aguado Flor (Spain), M.J. Fuentes-Raspall, R. Gonzalo, C. Alonso, T. Ramon y Cajal, D. Fisas, A. Seoane, Á. Sánchez Pla, J. Giral, O. Díez, S. Gutiérrez-Enríquez

Radiation induced heart fibrosis: Radiation mediated interplay between macrophages and fibroblasts PD - 0760

Q. Huang (Germany), J. Kraske, F. Glatting, L. Li, T. Walle, B. Zou, A. Tietz-Dalfuß, S. Trinh, D. Albrecht, R. Lopez Perez, P. Huber

Radiation-induced anti-tumor immunogenicity in pancreatic cancer cells – protons vs. X-rays PD - 0761

S. Kerschbaum-Gruber (Austria), A. Falkner, K. Stasny, L. Komornik, K. Schwarz, S. Demaria, D. Georg

Abscopal effect by ablative RT on lung metastases in an oligoprogressive tumor model PD - 0762

E. Firat (Germany), G. Niedermann

Role of the immune system in anti-tumoral response to proton minibeam radiation therapy

PD - 0763

A. Bertho (France), E. Brisebard, M. Juchaux, C. Gilbert, C. Lamirault, A. Patriarca, L. De Marzi, F. Pouzoulet, Y. Prezado

Track: Clinical

Poster discussions: Poster discussion 7: Prostate

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Online

Quality of life, toxicity, and PSA control after 50 Gy SBRT to the dominant intraprostatic nodule

PD - 0764

M. Cloitre, M. Valerio, B. Roth, D. Berthold, T. Tawadros, J. Meuwly, L. Heym, F. Duclos, S. Viguet-Carrin, V. Vallet, J. Bourhis, F. Herrera (Switzerland)

Bowel bother and function after RT for prostate cancer : the prospective QoL Pros-IT CNR study

PD - 0765

S.M. Magrini (Italy), M. Noale, A. Bruni, L. Triggiani, M. Buglione, F. Bertoni, L. Frassinelli, R. Montironi, R. Corvo', V. Zagonel, A. Porreca, P. Bassi, M. Gacci, G.N. Conti, S. Maggi

Impact of treatment and clinical factors on worsening of functional scales after prostate cancer RT

PD - 0766

A. Cicchetti (Italy), N. Joseph, A. Choudhury, B. Avuzzi, R. Valdagni, T. Rancati, P. Seibold, J. Chang-Claude, D. Azria, A. Vega, A. Webb, C. Talbot, R. Elliott, E. Sperk, D. De Ruyscher, L. Veldeman, M. Lambrecht, C. West

Predictors of urinary incontinence 2 years after RT with different intents for prostate cancer

PD - 0767

C. Cozzarini (Italy), G. Sanguineti, V. Vavassori, F. Munoz, B. Avuzzi, E. Garibaldi, D. Cante, J.M. Waskiewicz, A. Magli, A. Faiella, E. Villa, L. Ferella, M. Gatti, B. Noris Chiorda, C. Piva, P. Ferrari, T. Rancati, F. Badenchini, G. Girelli, E. Moretti, R. Valdagni, A. Bresolin, N. Di Muzio, C. Fiorino

Treatment-related toxicity of prostate bed versus whole pelvis post-prostatectomy radiation therapy

PD - 0768

M. Parry (United Kingdom), A. Sujenthiran, J. Nossiter, M. Morris, B. Berry, P. Cathcart, N. Clarke, H. Payne, J. van der Meulen, A. Aggarwal

Patient-reported acute intestinal toxicity and impact on patient QoL after WPRT for prostate cancer

PD - 0769

B. Noris Chiorda (Italy), F. Munoz, G. Sanguineti, D. Cante, J.M. Waskiewicz, B. Avuzzi, V. Vavassori, M. Gatti, G. Girelli, A. Magli, A. Pastorino, L. Ferella, A. Faiella, C. Piva, P. Ferrari, E. Villa, B. Farina, E. Moretti, T. Rancati, F. Badenchini, A. Bresolin, R. Valdagni, N. Di Muzio, C. Fiorino, C. Cozzarini

Track: Clinical

Poster discussions: Poster discussion 8: Head and Neck

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Online

Validation of USPIO-enhanced MRI to guide nodal irradiation in head and neck cancer patients PD - 0770

D. Driessen (The Netherlands), T. Dijkema, S. Pegge, P. Zámečník, I. van Engen-van Grunsven, W. Weijs, R. Takes, T. Scheenen, H. Kaanders

Correlation of cfDNA with response in carcinoma of head and neck treated with chemoradiotherapy PD - 0771

S. Parida (India), M. Rastogi, A.K. Gandhi, S. Sapru, N. Husain, R. Khurana, R. Hadi, S.P. Mishra, A. Srivastava, A. Bharati, S. Srivastava

DW-MRI changes in swallowing structures during RT as a biomarker for dysphagia in HNC patients PD - 0772

S. Stieb (USA), A.S. Mohamed, S. Ahmed, K. Wahid, R. He, A.S. Garden, S.J. Frank, D.I. Rosenthal, G.B. Gunn, K.A. Hutcheson, S.Y. Lai, C.D. Fuller

Update of the results of single vocal cord irradiation for early-stage glottic cancer PD - 0773

L. Tans (The Netherlands), M. Dorr, A. Al-Mamgani, S.L. Kwa, A. Sewnaik, F. Keskin-Cambay, R. Nout, W. Heemsbergen

Impact of sarcopenia on acute radiotherapy-induced toxicity in head and neck cancer patients PD - 0774

E. Karavolia (The Netherlands), M.I. van Rijn-Dekker, L. Van den Bosch, J.G. van den Hoek, E. Oldehinkel, T.W. Meijer, J.A. Langendijk, R.J. Steenbakkens

External validation of photon-derived NTCP models for acute toxicity in head and neck proton therapy PD - 0775

L. Van den Bosch, A. van der Schaaf (The Netherlands), H.P. van der Laan, J.G. van den Hoek, T.W. Meijer, E. Oldehinkel, R.J. Steenbakkens, J.A. Langendijk

Track: Physics

Poster discussions: Poster discussion 9: Image guided protocols

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Online

A Bayesian approach to evaluate the impact of change in IGRT protocol using real world data PD - 0776

I. Fornaçon-Wood (United Kingdom), H. Mistry, C. Johnson-Hart, J.P.B. O'Connor, C. Faivre-Finn, G. Price

Uterus motion in cervical cancer patients during external beam radiotherapy PD - 0777

T. Berger (United Kingdom), L.U. Fokdal, M.S. Assenholt, N.B. Jensen, W.H. Nailon, J.C. Lindegaard, K. Tanderup

Dosimetric impact of CBCT-frequency in adjuvant breast cancer radiotherapy PD - 0778

Y. Junker (Germany), K.J. Borm, M. Düsberg, S.E. Combs

Fiducial motion relative to tumor bed in partial breast irradiation and risk of geographical miss PD - 0779

N. Hoekstra (The Netherlands), S. Habraken, A. Swaak - Kragten, J. Pignol, M. Hoogeman

Geometrical study of the feasibility of fiducial-less lymph node SBRT with Cyberknife PD - 0780

D. Sevillano (Spain), C. de la Pinta, A. Fonseca, J.D. Garcia-Fuentes, R. Colmenares, B. Capuz, R. Morís, M. Cámara, F. Orozco, P. Retorta, P. Galiano, M.J. Béjar, D. Prieto, F. García-Vicente

Validation of optical surface/thermal imaging and X-ray positioning accuracy for SRS treatments PD - 0781

V. da Silva Mendes (Germany), M. Reiner, S. Corradini, M. Niyazi, C. Belka, G. Landry, P. Freislederer

Track: Physics

Poster discussions: Poster discussion 10: The interface of physics and radiobiology

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Online

Predicting bRFS after salvage post-prostatectomy RT with a “one-size-fits-all” TCP-based formula PD - 0782

M. Olivieri (Italy), A. Magli, D. Cante, B. Noris Chiorda, F. Munoz, A. Faiella, E. Olivetta, M.A. Signor, C. Piva, B. Avuzzi, L. Ferella, A. Pastorino, S. Broggi, A. Fodor, C. Deantoni, T. Rancati, G. Sanguineti, R. Valdagni, N. Di Muzio, C. Cozzarini, C. Fiorino

Automated sarcopenia assessment in the neck and survival analysis in head and neck cancer patients PD - 0783

H. Warr (United Kingdom), O. Murray, D. McSweeney, A. McWilliam, A. Green

Predicting toxicity after RT for head and neck cancer: combining dosimetry with a biomarker PD - 0784

T. Rancati (Italy), S. Deneuve, T. Bastogne, M. Duclos, P. Bois, P. Bachmann, L. Nokovitch, P. Roux, D. Girodet, M. Puopart, P. Zrounba, L. Claude, L. Ferella, E. Orlandi, N. Foray, S. Perreira

Personalized fractionation of ultracentral lung tumors using modeled outcomes from treated patients PD - 0785

A. Iyer, J. Chen (USA), M. Thor, A. Wu, A. Apte, A. Rimner, D. Gomez, J. Deasy, A. Jackson

Spatiotemporal fractionation schemes for the treatment of multiple brain metastases PD - 0786

N. Torelli (Switzerland), J. Unkelbach

Is dosed averaged LET the best RBE descriptor for proton therapy? PD - 0787

F. Kalholm (Sweden), N. Bassler, I. Toma-Dasu

Track: Physics

Poster discussions: Poster discussion 11: Quality assessment of complex techniques

-	Online
First results from the national network for quality assurance of MR images in RT in Denmark	PD - 0788
<i><u>S.W. Hasler (Denmark), J.F. Kallehauge, R.H. Hansen, C.M. Nilsson, D.T. Arp, H.D. Nissen, J.M. Edmund, F. Mahmood</u></i>	
A global quality index for prostate SBRT with and without SIB: a multiplanning study	PD - 0789
<i><u>E. Villaggi (Italy), S. Russo, V. Hernandez, C. Moustakis, O. Blanck, M. Esposito, N. Hardcastle, R. de Blas Piñol, J. Saez, R. Doro, L. Masi, L. Strigari, S. Strolin, M.D. Falco, V. Silvestri, B. Nardiello, S. Broggi, A. Savini, M. Stasi, P. Mancosu</u></i>	
TBI and TSI techniques in Belgium and the Netherlands – current clinical practice	PD - 0790
<i><u>P. Koken (The Netherlands), L. Murrer</u></i>	
VMAT plan complexity in dose painting	PD - 0791
<i><u>A.M. Acosta Roa (Norway), P. Lønne, M.G. Guren, E. Malinen, T.P. Hellebust</u></i>	
Complexity-based traffic light protocol for VMAT plans deliverability using log file analysis	PD - 0792
<i><u>S. Cilla (Italy), P. Viola, V.E. Morabito, C. Romano, M. Craus, G. Macchia, E. Scirocco, M. Buwenge, S. Cammelli, V. Valentini, A.G. Morganti, F. Deodato</u></i>	
Which metric quantifies dose fall-off for SRS treatments of brain lesions?	PD - 0793
<i><u>T. Nano (USA), D. Capaldi, C. Chuang, L. Wang, S. Soltys, S. Braunstein, L. Ma</u></i>	

Track: RTT

Poster discussions: Poster discussion 12: Patient-centred radiotherapy services

-	Online
Effectiveness of Dynamic Prioritization for patient scheduling: A Discrete-Event Simulation Model	PD - 0794
<i><u>M. Gurjar (Sweden), J. Lindberg, E. Abel, C. Olsson</u></i>	
Futile palliative radiotherapy at the end of life.	PD - 0795
<i><u>C. Iglesias Melero (Spain), N.A. Linares Mesa, M. Ruza Sarrasín, S.B. Garduño Sánchez, J.M. Rico Pérez</u></i>	

Auditing prescribing practice in Advanced Practitioner Therapeutic Radiographers (RTTs) PD - 0796

M. McCloskey (United Kingdom), J. Malpass, R. Davies, M. Mant, P. Treasure, A. Webster

Large scale implementation of standardized neurocognitive testing in clinical routine practice PD - 0797

C. Offermann (The Netherlands), C. Zegers, J. Dijkstra, F. Hoebbers, I. Compter, D. de Ruyscher, M. Anten, W. van Elmpt, D. Eekers

Development and results of a patient-reported treatment experience questionnaire on a 1.5 T MR-Linac PD - 0798

H. Barnes (United Kingdom), S. Alexander, L. Bower, J. Ehlers, C. Gani, T. Herbert, R. Lawes, P. Krause Møller, T. Morgan, M. Nowee, G. Smith, B. van Triest, N. Tyagi, L. Whiteside, H. McNair

Radiation therapy and implanted cardiac devices: education for radiation therapists and nurses PD - 0799

K. Kafka-Peterson (USA), E. Cavcic, H. Hernandez

Track: Clinical

Poster discussions: Poster discussion 13: CNS 2

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Online

Radiotherapy in IDH wild-type multifocal high-grade glioma PD - 0800

D. Fleischmann (Germany), R. Schön, S. Corradini, R. Bodensohn, I. Hadi, J. Hofmaier, R. Forbrig, N. Thon, M. Dorostkar, C. Belka, M. Niyazi

Spatial distribution of post-radiation lesions in diffuse glioma: a voxel-wise analysis PD - 0801

A. van der Boog (The Netherlands), S. David, A. Steennis, J.W. Dankbaar, T. Snijders, P. Robe, J. Verhoeff

Radionecrosis and intracranial stereotactic radiosurgery PD - 0802

S. Fernández (Spain), S. Guardado, G. Pozo, R. D'Ambrosi, S. Pedraza, C. Ramón, C. Martín-Arriscado, M.Á. Cabeza, E. Cabello, M.Á. Pérez Escutia, J.F. Pérez-Regadera

LINAC-Hypofractionated Stereotactic Radiation Therapy in Five Fractions for Vestibular Schwannoma PD - 0803

A. Gawish (Germany), A. Mpotsaris, I. Sandalcioglu, K.P. Stein, T. Brunner, B. Röllich

Therapeutic use of Linac-based SRS in the treatment of malignant spasticity PD - 0804

L. Nicosia (Italy), P. Romanelli, F. Ferrari, F. Marchioretto, M. Zamperini, A. De Simone, R. Ruggieri, F. Alongi, R. Avesani

Diffusion kurtosis imaging and white matter injury after radiotherapy of adults with brain tumours PD - 0805
C. Skinnerup Byskov (Denmark), L. Haldbo-Classen, A. Harbøll, S. Nørhøj Jespersen, J. Folsted Kallehauge

Track: Clinical

Poster discussions: Poster discussion 14: Prostate 2

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Online

HDR-BT + SBRT for prostate cancer. QoL and toxicity analysis in a prospective phase II trial. PD - 0806

D. Büchser (Spain), A. Bilbal, E. Mayrata, F. Perez, J.M. Espinosa, I. Valverde, B. Santos, F. Casquero, A. Gomez-Iturriaga

MRI-Guided focal boost to intraprostatic lesion using VMAT in prostate cancer. A Phase II Trial. PD - 0807

A. Zapatero (Spain), M. Roch, P. Castro Tejero, D. Büchser, C. Martin de Vidales, S. Gonzalez, P. Rodríguez Carnero, M.T. Murillo

Patterns of failure in Ga68-PSMA PETCT at rising PSA post radical radiotherapy for prostate cancer PD - 0808

S. Sood, P. Pathare, P. Maitre, A. Agarwal, V. Rangarajan, V. Murthy (India)

4-year PSA to predict relapse risk after low dose rate brachytherapy for prostate cancer PD - 0809

D. Noble (United Kingdom), E. Doyle, G. Tramonti, A. Law, A. Sundaramurthy, J. Brush, J. Keanie, C. Wood, P. Drewell, W. Keough, D. McLaren

Salvage Therapies for PSMA PET/CT-positive nodal-only recurrent prostate cancer: Impact on survival, functional outcomes and health-related quality of life PD - 0810

N. Schmidt-Hegemann (Germany), C. Trapp, P. Rogowski, C. Eze, J. Milow, A. Buchner, M. Li, H. Ilhan, V. Wenter, C.G. Stief, C. Belka, A. Kretschmer

Radiation-induced prostate swelling during SBRT of the prostate PD - 0811

A. Vanhanen (Finland), P. Reinikainen, M. Kapanen

Track: Clinical

Poster discussions: Poster discussion 15: Gynaecological (endometrium, cervix, vagina, vulva)

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Online

Brachytherapy of locally advanced cervical cancer using the hybrid applicator Venezia™ - results PD - 0812

S. Saicic (Germany), F. Walter, M. Rottler, J. Well, L. Nierer, K.-M. Niyazi, C. Belka, S. Corradini

Metabolic and texture analysis for predicting prognosis in locally advanced squamous cervix cancer. PD - 0813

S. Pedraza (Spain), A.P. Seiffert, P. Sarandeses, B. Muñoz-Lopez, E.J. Gómez, P. Sánchez-González, J.F. Perez-Regadera

Prediction of treatment response in patients with advanced cervical cancer using mid-PET/MRI PD - 0814

R. Voříšek (Czech Republic), J. Baxa, P. Kovářová, P. Hošek, E. Sukovská, R. Tupý, J. Ferda, J. Fínek

Prognostic role of early FDG-PET/CT in locally advanced cervical carcinoma (LACC) patients PD - 0815

G. Vullo (Italy), V. De Sanctis, D. Anzellini, G. Facondo, R.C. Sigillo, D. Prosperi, D. Riolo, M.F. Osti

Retrospective validation of coverage probability based SIB-N in LACC: a mono-institutional analysis PD - 0816

Withdrawn

Months and severity Score(MOSES)- A new approach to summarize adverse events in oncological trials PD - 0817

N. Ranjan, S. Chopra (India), A. Mangaj, S. Kannan, T. Dora, R. Engineer, U. Mahantshetty, L. Gurram, P. Mittal, J. Ghosh, A. Maheshwari, T. Shylasree, S. Gupta

Track: Physics

Poster discussions: Poster discussion 16: Deep-learning for dose prediction and planning

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Online

Dose prediction with deep learning: the effect of data quality and quantity in the model's accuracy PD - 0818

A. Barragan (Belgium), M. Thomas, G. Defraene, S. Michiels, K. Haustermans, J. Lee, E. Sterpin

Dose mimicking by deep learning based fluence prediction: one model for different class solutions PD - 0819

L. Vandewinckele (Belgium), S. Willems, M. Lambrecht, F. Maes, W. Crijns

DeepDoseOpt: End-to-End VMAT Pelvis Dose Prediction & Treatment Planning Inference PD - 0820

J. Dedieu, K. Shreshtha (France), A. Lombard, N. Bus, S. Martinot, R. Fick, N. Paragios

Artificial Intelligence based planning of HDR prostate brachytherapy: first clinical experience. PD - 0821

D. Barten (The Netherlands), A. Bouter, N. van Wieringen, B. Pieters, K. Hinnen, G. Westerveld, S. Maree, M. van der Meer, T. Alderliesten, P. Bosman, Y. Niatsetski, A. Bel

Bespoke vs machine learned: can expert Pareto navigated treatment planning be modelled? PD - 0822

I. Foster (United Kingdom), P. Wheeler, E. Spezi, J. Staffurth, A. Millin

Development of artificial intelligence based treatment planning for locally advanced breast cancer PD - 0823

D. van de Sande (The Netherlands), H. Bluemink, E. Kneepkens, N. Bakx, E. Hagelaar, M. Sharabiani, C. Hurkmans

Track: Physics

Poster discussions: Poster discussion 17: New technologies in image guidance

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Online

Automatic validation of organ at risk delineations based on machine learning PD - 0824

C. Brink (Denmark), U. Bernchou, I. Hazell, V.N. Hansen, A. Bertelsen, E.L. Lorenzen, N. Gyldenkerne, R. Zukauskaite, J. Johansen, C.R. Hansen

Contribution of PET and CT Images to Machine Learning for Contouring GTVs in Head and Neck Cancer PD - 0825

A. Theliani (United Kingdom), K. A. Vallis, M. Mark J. Gooding

Super-resolution ultrasound and MRI imaging for monitoring breast tumour response to radiotherapy PD - 0826

M. Morris (United Kingdom), M. Toulemonde, V. Sinnett, S. Allen, K. Downey, N. Tunariu, C. Lucy, L. Gothard, G. Hopkinson, E. Scurr, E. Harris, M. Tang, M. Blackledge, N. Somaiah

Development of target-optimized CBCT imaging to reduce imaging dose and improve image quality PD - 0827

N. Lackner (The Netherlands), B. van der Heyden, I.M. Messner, P. Steininger, A. Zechner, A. Ableitinger, M. Stock, G. Fonseca, F. Verhaegen

Low-cost optical surface capture as CT replacement in 3D printed radiotherapy surface mould creation PD - 0828

M. Bolt (United Kingdom), K. Wells, J. Willsmore

Multimodal anthropomorphic abdomen phantom with real-time breathing motion for IGRT PD - 0829

C. Stengl (Germany), A. Weidner, F. Dinkel, S. Dorsch, A. Runz, G. Echner

Track: Radiobiology

Poster discussions: Poster discussion 18: Tumour-radiobiology

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Online

GPD1 high expression in glioblastoma stem cells confers radiation resistance PD - 0830

C. Xu (Germany), M. Bonrouhi, M. Roscher, M.J. Besso, R. Lange, W.W. Hadiwikarta, H. Liu, I. Kurth, M. Baumann

Elucidating colony growth in vitro by machine-learning based quantification of time-lapse image data	PD - 0831
<i>R. Koch (Germany), E. Bahn, M. Alber</i>	
Revisiting DNA repair biomarkers identification strategy for Head and Neck cancers	PD - 0832
<i>S. Sauvaigo (France), G. Muggiolu, S. Libert, B. Treillard, A. Lauret, G. Alfonse, P. Philouze, P. Ceruse, C.A. Righini, C. Rodriguez-Lafrasse</i>	
Exploiting tumor DNA repair status with the novel hypoxia-activated DNA alkylating agent CP-506	PD - 0833
<i>A. van der Wiel (The Netherlands), A. Yaromina, N. Lieuwes, R. Biemans, J. Theys, L. Dubois, P. Lambin</i>	
Radiotherapy versus radiochemotherapy in HPV positive and negative HNSCC xenograft models	PD - 0834
<i>C. Valentini (Germany), N. Ebert, K. Lydia, S. Loeck, M. Krause, M. Baumann</i>	
Bone-tropic circulating tumor cell population in mCRPC patients under ablative radiotherapy	PD - 0835
<i>D. Klusa (Germany), F. Lohaus, H. Neubauer, A. Franken, M. Rivandi, B. Polzer, D. Husman, M. Kücken, T. Hölscher, I. Kurth, M. Krause, M. Krause, A. Dubrovskaja, M. Baumann, C. Peitzsch</i>	

Track: Clinical

Poster discussions: Poster discussion 19: Lower GI (colon, rectum, anus)

-	Online
Watch-and-wait strategy : Where is a limit? Results from the pooled two prospective studies	PD - 0836
<i>L. Pietrzak (Poland)</i>	
Delta radiomic features and early regression index for rectal cancer response prediction in MRgRT	PD - 0837
<i>L. Boldrini (Italy), D. Cusumano, G. Chiloiro, P. Yadav, G. Yu, A. Romano, A. Piras, L. Placidi, S. Broggi, L. Indovina, M.A. Gambacorta, M.F. Bassetti, Y. Yang, C. Fiorino, V. Valentini</i>	
Rectal cancer volume delineation between morphological and functional images: CT, T2/DWI-MRI, PET-CT	PD - 0838
<i>C. Rosa (Italy), F.C. Di Guglielmo, L. Gasparini, L. Caravatta, M. Di Tommaso, G. Martino, P. Castaldi, D. Genovesi</i>	
Outcomes for 193 rectal cancer patients receiving contact brachytherapy for organ preservation	PD - 0839
<i>A. Stewart (United Kingdom), H. Minnaar, C. Jordan, S. Rossides, L. Wang, R. Ragnakumaran, N. Patel, A. Franklin</i>	

Preoperative chemoradiotherapy in older patients with rectal Cancer: a multicenter phase II trial PD - 0840

W. Liu (China), Y. Tang, J. Jin, N. Li, J. Wang, Y. Cheng, S. Wang, Y. Li, X. Wang

Definitive therapy for anal cancer with synchronous metastases PD - 0841

K. Wind (Denmark), L. Riber, B. Mayland Havelund, E. Serup-Hansen, C. Kronborg, A. Jakobsen, K. Garm Spindler

Track: Clinical

Poster discussions: Poster discussion 20: Lung 1

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Online

Prophylactic cranial irradiation in patients with small cell lung cancer in the Netherlands PD - 0842

M. Tomassen (The Netherlands)

Individual treatment effect estimation in the presence of unobserved confounding for lung cancer PD - 0843

W. van Amsterdam (The Netherlands), J. Verhoeff, N. Harlianto, G. Bartholomeus, A. Manas Puli, P. de Jong, T. Leiner, A. van Lindert, R. Eijkemans, R. Ranganath

Sarcopenia evolution in stage III lung cancer treated with photon or proton chemo-radiotherapy PD - 0844

A. Angrisani (Italy), D. Hattu, L. Hendriks, S. Peeters, B. Reymen, J. Van Loon, K. Verhoeven, L. In 't Ven, J. Dhont, D. De Ruysscher

Stereotactic radiotherapy for oligometastatic NSCLC: results from the multicenter CORE consortium. PD - 0845

S. Badellino (Italy), H. Chen, I. Poon, D. Erler, M. Levis, R. Dagan, M. Foote, A.V. Louie, K.J. Redmond, T. Biswas, A. Sahgal, U. Ricardi

Tumor match and adaptive radiotherapy reduce risk of radiation pneumonitis and increase survival PD - 0846

D.S. Møller (Denmark), C.M. Lutz, M. Alber, A.A. Khalil, M.I. Holt, H.H. Schmidt, A.L. Appelt, M.M. Knap, L. Hoffmann

Dose escalation in locally advanced NSCLC: comparing outcomes in adenocarcinoma and squamous cell carcinoma PD - 0847

S. Abel (USA), P. Renz, A. Colonias, M. Raj, R. Wegner

Track: Clinical

Poster discussions: Poster Discussion 21: Urology - non prostate

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Online

Stereotactic body radiotherapy for poor surgical candidates with primary renal cell carcinoma PD - 0848

Y.Y. Jo (Korea Republic of)

Concomitant Nivolumab and RT in metastatic kidney cancer. Benefit of ablative vs palliative approach PD - 0849

G. Francolini (Italy), V. Di Cataldo, B. Detti, M. Loi, P. Ghirardelli, V. Vavassori, L. Nicosia, F. Alongi, L. Triggiani, S. La Mattina, A.G. Allegra, E. Scoccimarro, M. Aquilano, S. Lucidi, M. Valzano, A. Peruzzi, I. Morelli, M. Mariotti, V. Salvestrini, G. Stocchi, L.P. Ciccone, I. Desideri, L. Livi

Adjuvant radiotherapy after cystectomy for patients with bladder cancer: a phase II trial. PD - 0850

V. Fonteyne (Belgium), P. Dirix, C. Van Praet, C. Berghen, M. Albersen, S. Junius, N. Liefhooghe, L. Noé, G. De Meerleer, P. Ost, K. Decaestecker

Clinical outcomes of online adaptive RT and conventional RT for muscle invasive bladder cancer. PD - 0851

J. Yeh (Australia), F. Foroudi, K.H. Tai, M. Bressel, T. Kron

Recommendations and clinical validation of inguinal CTV delineation in penile cancer PD - 0852

R. Mittal, V. Murthy (India), R. Krishnatry, P. Maitre

Experience of penile brachytherapy in Zambia – building a case for HDR in constrained environments PD - 0853

D. Lombe (Zambia), B. M'ule, K. Mwala, M. Phiri

Track: Physics

Poster discussions: Poster discussion 22: Managing intra-fraction motion

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Online

Deep inspiration breath hold in radiation therapy of gastric lymphomas: a phase 2 trial. PD - 0854

P. Petersen (Denmark), L.A. Rechner, L. Specht

First patient experience with real-time EPID-based breath hold monitoring during breast radiotherapy PD - 0855

E. Vasina (Australia), P. Greer, J. Baeza Ortega, T. Kron, J. Ludbrook, D. Thwaites, J. Lehmann

Comparison of intrafraction motion when using two distinct systems to perform DIBH in lung SBRT. PD - 0856

A. Prado Barraquán (Spain), D. Zucca Aparicio, M.Á. De la Casa de Julian, L. Alonso Iracheta, J. Martí, P. García de Acilu, J. García, P. Fernández Letón

Real-time intrafraction prostate motion during dose-escalated linac-based SBRT PD - 0857

D. Panizza (Italy), S. Trivellato, G. Montanari, V. Pisoni, V. Faccenda, P. Caricato, M.C. Daniotti, R. Lucchini, E. De Ponti, S. Arcangeli

Impact of immobilization on intrafraction motion during CBCT-linac based SBRT of PCa metastases PD - 0858

J. Janssen (The Netherlands), C. Brouwer, H. van Herpt, S. Both, H. Langendijk, S. Aluwini

Intra-fractional motion in frameless stereotactic radiosurgery and how to deal with it PD - 0859

M. Todorovic (Germany), M. Grohmann, C. Petersen

Track: Physics

Poster discussions: Poster discussion 23: MR-guided radiotherapy

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Online

Kidney motion and motion velocity during inhale and exhale prolonged breath-holding (~5min) PD - 0860

L. Ewals (The Netherlands), Z. van Kesteren, M. Parkes, M. Stevens, J. van den Aardweg, G. van Tienhoven, A. Bel, I. van Dijk

Intrafraction pancreatic tumor motion patterns during ungated MR-guided SBRT with abdominal corset PD - 0861

G. Grimbergen (The Netherlands), H. Eijkelenkamp, H. Heerkens, B. Raaymakers, M. Intven, G. Meijer

Automatic PTV margin determination for midposition-based lung SBRT planning on the Unity MR-linac PD - 0862

H. Ligtenberg (The Netherlands), S. Hackett, L.G. Merckel, L. Snoeren, C. Kontaxis, C. Zachiu, G. Bol, J.J. Verhoeff, M.F. Fast

Preliminary dosimetric report of 1.5-T MR-guided daily-adaptive SBRT for lymph-nodal oligometastases PD - 0863

F. Cuccia (Italy), M. Rigo, D. Gurrera, L. Nicosia, R. Mazzola, V. Figlia, N. Giaj-Levra, F. Ricchetti, G. Attinà, E. Pastorello, A. De Simone, S. Naccarato, G. Sicignano, R. Ruggieri, F. Alongi

Case reports demonstrating the clinical rationale for in vivo portal dosimetry on the Unity MR-linac PD - 0864

B. Vivas Maiques (The Netherlands), I. Olaciregui Ruiz, A. Mans, T. Janssen, J. Kass

The delta index: a novel metric to assess dose accumulation uncertainty in MR-guided radiotherapy PD - 0865

M. van den Dobbelsteen (The Netherlands), S. Hackett, J. Verhoeff, L. Merckel, C. van Es, L. Snoeren, C. Kontaxis, M. Fast

Track: RTT

Poster discussions: Poster discussion 24: Radiotherapy planning and quality assurance

-	Online
100% Peer Review in Radiation Oncology. Is it feasible?	PD - 0866
<i>E. Martín García (Spain), F.J. Celada-Álvarez, M.J. Pérez-Calatayud, M. Rodríguez-Plá, O.A. Prato-Carreño, D. Farga-Albiol, O. Pons-Llanas, S. Roldán-Ortega, E. Collado-Ballesteros, Y. Bernisz-Díaz, F.J. Martínez-Arcelus, J. Chimeno, N. Carrasco-Vela, J. Gimeno, F. Lliso, V. Carmona, J.C. Ruiz, J. Pérez-Calatayud, A.J. Conde-Moreno, A. Tormo</i>	
Development of a Radiotherapy Quality Assessment Tool	PD - 0867
<i>D. megias (United Kingdom), Y.M. Tsang</i>	
Comparison of segmentation algorithms for organs at risk delineation on head-and-neck CT images	PD - 0868
<i>M. Costea (France), M. Biston, V. Grégoire, D. Saruut</i>	
influence of chest geometry on treatment technique selection for breast cancer radiotherapy	PD - 0869
<i>D. Mychko (Belarus), P. Dziameshka</i>	
Dosimetric comparison of Cranium SRS among VMAT, Tomotherapy and three Cyberknife techniques	PD - 0870
<i>K.F. Cheng (China), O.T.H. Lam</i>	
A Quantum-Inspired Tensor Network for Optimizing Radiotherapy Plans	PD - 0871
<i>S. Cavinato (Italy), T. Felser, M. Fusella, M. Paiusco, S. Montanero</i>	

Track: Clinical

Poster discussions: Poster discussion 25: Lung 2

-	Online
Second In-field course of stereotactic body radiotherapy for thoracic tumors: a multicentre analysis	PD - 0872
<i>C. John, R. Dal Bello, N. Andratschke, M. Guckenberger, J. Boda-Heggemann, E. Gkika, F. Mantel, H.M. Specht, C. Stromberger, F. Zehentmayr, O. Blanck, P. Balermipas (Switzerland)</i>	
Daily online adaption in MR-guided pulmonary SBRT: niche or new standard?	PD - 0873
<i>S. Regnery (Germany), C. Buchele, F. Weykamp, P. Hoegen, T. Eichkorn, T. Held, C. Rippke, S. Klüter, J. Rademacher, J. Debus, S. Adeberg, J. Hörner-Rieber</i>	

Impact of dose and prescription method in SBRT of NSCLC. A pooled analysis of 2 prospective trials. PD - 0874

E. Gkika (Germany), S. Adebahr, G. Radicioni, J. Exner, E. Haehl, S. Spohn, A. Rühle, C. Zamboglou, N. Nicolay, T. Sprave, R. Wiehle, D. Baltas, U. Nestle, A. Grosu

Novel Classification and Longitudinal Analysis of Radiation-Induced Lung Parenchyma Damage PD - 0875

E. Chandy (United Kingdom), A. Szmul, A. Stavropoulou, J. Jacob, D. Landau, C. Veiga, S. Gulliford, J. Fenwick, J. Wilson, M. Hawkins, C. Hiley, J. McClelland

First-failure prediction model for locally advanced non-small cell lung cancer - External validation PD - 0876

C.M. Lutz (Denmark), M.M. Knap, D.S. Møller, L. Hoffmann, A.A. Khalil, K.E. Håkansson, G. Persson, S. Bentzen, L. Nygård, I. Vogelius

Radiological prediction model of lung radiation pneumonitis based on dose line segmentation PD - 0877

P. Yang (China), X. Peng, H. Jin, Y. Jin, J. Cheng, H. Elhalawani, J. Liu, J. Wang, A. Mohamed, Y. Shi, C. Fuller

Track: Clinical

Poster discussions: Poster discussion 26: Upper GI (oesophagus, stomach) 1

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Online

Reduction of post-operative toxicity in esophageal cancer patients after model based proton therapy PD - 0878

C. Muijs (The Netherlands), M. Dieters, V.E. Mul, A.G. Niezink, A. Schaaf van de, N.M. Sijtsma, S. Visser, P. Klinker, B. Etten van, E. Korevaar, J.A. Langendijk

Clinical outcomes of neoadjuvant chemoradiation in oesophageal cancer PD - 0879

K.S. Chufal (India), I. Ahmad, A.A. Miller, R. Bajpai, R.L. Chowdhary, A.K. Pahuja, J.S. Sethi, M. Gairola

Could 18-FDG PET/CT radiomics features predict outcomes in locally advanced esophageal cancer? PD - 0880

L. Lefebvre, J. Henriques, A. Falcoz, A. Meurisse, G. Crehange, L. Boldrini, N. Dinapoli, D. Vernerey, R. Gatta, B. De Bari (Switzerland)

Deep learning dose prediction as a tool to evaluate treatment complications based on NTCP models PD - 0881

C. Draquet (Belgium), A. Barragan-Montero, S. Michiels, G. Defraene, M. Thomas, K. Haustermans, J. Lee, E. Sterpin

PET radiomics for predicting PFS in patients with esophageal cancer who are treated with CRT PD - 0882

N. Takahashi (Japan), R. Umezawa, T. Yamamoto, K. Takeda, Y. Ishikawa, Y. Suzuki, K. Kishida, S. Teramura, K. Jingu

Impact of unintentional splenic scatter on lymphocytes during and post stomach cancer chemoradiation PD - 0883

Y.H.E. Chuk (Hong Kong (SAR) China), K.C.M. Cheung, J.C.H. Chow, K.M. Cheung, J.C.H. Chan, C.W.Y. Yip, F.K.H. Lee, K.H. Wong

Track: Clinical

Poster discussions: Poster discussion 27: Palliation

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Online

Educational intervention to improve the rate of single fraction radiotherapy prescriptions PD - 0884

C.M. Donati (Italy), E. Nardi, E. Galietta, M.L. Alfieri, G. Siepe, A. Zamagni, M. Buwenge, G. Macchia, F. Deodato, S. Cilla, M. Ferro, L. Strigari, S. Cammelli, F. Cellini, A.G. Morganti, A.G. Morganti

Quality of Life improvement in patients with bone metastases undergoing palliative radiotherapy PD - 0885

V. Cañón (Spain), A. Gómez-Iturriaga, F. Casquero, D. Rades, A. Navarro, O. del Hoyo, V. Morillo, P. Willisich, J.L. López-Guerra, A. Illescas-Vacas, R. Ciervide, L. Martínez-Indart, J. Cacicedo

30-Day Mortality after Palliative Radiation Therapy for Painful Bone Metastases PD - 0886

M. Vázquez Varela (Spain), A.A. Geng, J. Garre, E. Recalde, M. Altabas, A. Giraldo, V.M. Reyes, X. Maldonado, B. Navalpotro, M. Ramos, R. Vergés, S. Benavente, S. Micó, R. Granada, J. Giral

VMAT Radiotherapy boost in oligometastatic patients with Spinal Metastases: a dose escalation study PD - 0887

D. Pezzulla (Italy), G. Macchia, S. Cilla, M. Boccardi, A. Re, P. Bonome, V. Picardi, M. Ferro, C. Romano, M. Buwenge, S. Cammelli, V. Valentini, V. Valenti, A. Morganti, F. Deodato

How timely is timely when it comes to palliative radiotherapy? 14 days or is it Urgent Plus? PD - 0888

L. Bedford (United Kingdom), J. Walther, U. Barthakur, A. Davis, S. Donickey

Hemostatic Radiotherapy For Bleeding Control In Gynecological Tumors PD - 0889

M. Valero (Spain), V.J. Duque, J.A. Domínguez, T. Muñoz

Track: Physics

Poster discussions: Poster discussion 28: 4DCT for planning

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Online

A novel approach to validate the accuracy of Mid-Position images calculated from 4DCT data PD - 0890

F. Ghareeb (Portugal), J. Stroom, M. Pereira, D. Boukerroui, M.J. Gooding, C. Greco

Cardio-respiratory ITV for cardiac radioablation in case of ventricular tachycardia PD - 0891
J. Bellec (France), L. Rigal, N. Jaksic, P. Caille, M. Lederlin, C. Lafond, R. Martins, R. De Crevoisier, A. Simon

Patient specific evaluation of breathing motion induced interplay effect PD - 0892
M. Varasteh, A. Mohammad Ali (United Kingdom), S. Esteve, F. Göpfert, P. Jeevanandam, A.R. Hounsell, C.K. McGarry, C. K McGarry

Probabilistic lung tumour target definition from 4DCT data: A motion model based approach PD - 0893
B. Eiben (United Kingdom), E. Chandy, A. Abravan, V. Rompokos, H. Grimes, D. D'Souza, A. Poynter, M. van Herk, J.R. McClelland

The impact of beam setup on robustness and organs-at-risk dose in IMPT for lung cancer patients PD - 0894
S. Visser (The Netherlands), R. Wijsman, D. Wagenaar, C. O.Ribeiro, A. Knopf, J.A. Langendijk, E.W. Korevaar, S. Both

Dose to heart substructures in esophageal cancer patients: Comparison between photon and protons PD - 0895
N.S. Ubbesen (Denmark), M. Nordsmark, M.L. Milo, L. Hoffmann, T.B. Nyeng, D.S. Møller

Track: Physics

Poster discussions: Poster discussion 29: Accuracy in computing dose

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Online

Dosimetric leaf gap and leaf trailing effect in a double-stacked multi-leaf collimator PD - 0896
V. Hernandez (Spain), J. Saez, A. Angerud, R. Cayez, C. Khamphan, D. Nguyen, L. Vieillevigine, V. Feygelman

Experimental validation of absorbed dose-to-medium reporting algorithms in heterogeneous media PD - 0897
A. Delbaere (France), T. Younes, M. Chauvin, J. Labour, V. Fonteny, L. Simon, G. Fares, L. Vieillevigine

Experimental determination of detector specific lateral dose response functions in proton beams PD - 0898
J. Kretschmer (Germany), L. Brodbek, H.K. Looe, E. van der Graaf, M.J. van Goethem, H. Kiewiet, C. Meyer, B. Poppe, S. Brandenburg

Report dose-to-medium in clinical trials; a consensus from the Global Harmonisation Group PD - 0899
S. Kry (USA), J. Lye, C. Clark, N. Andratschke, A. Dimitriadis, D. Followill, R. Howell, M. Hussein, M. Ishikawa, S. Kito, T. Kron, J. Lee, J. Michalski, A. Monti, N. Reynaert, P. Taylor, K. Venables, Y. Xiao, J. Lehmann

Improving the modelling of Elekta Agility MLC in RayStation PD - 0900

M. Hussein (United Kingdom), A. Angerud, J. Saez, E. Bogaert, M. Barry, I. Silvestre Patallo, D. Shipley, C. Clark, V. Hernandez

Is it possible to predict QA failures using plan complexity metrics? PD - 0901

S. Russo (Italy), G. Della Gala, S. Bettarini, A. Ghirelli, M. Esposito, S. Pini, H.O. Ghafour, V. Hernandez

Track: Physics

Poster discussions: Poster discussion 30: Challenges and technology of proton-therapy

- Online

Do we need a precise proton machine-specific delivery sequence to assess the interplay effect? PD - 0902

X. Ding (USA), L. Zhao, G. Liu, W. Zheng, J. Shen, A. Lee, Y. Di, R. Deraniyagala, C. Stevens, X. Li, S. Tang

Gel dosimetry-based range evaluation as quality assurance tool for adaptive proton radiotherapy PD - 0903

S. Neppel (Germany), C. Kurz, D. Köpl, I. Yohannes, M. Schneider, D. Bondesson, M. Rabe, C. Belka, O. Dietrich, G. Landry, K. Parodi, F. Kamp

Limitation of van Herk's recipe in robust optimization of clinical IMPT for head and neck cancer PD - 0904

J. Rojo Santiago (The Netherlands), S.J. Habraken, D. Lathouwers, Z. Perkó, M.S. Hoogeman

Pencil Beam Proton Flash Therapy, the challenge of scanning. PD - 0905

A. Pin (Belgium), L. Hotoiu, S. Deffet, E. Sterpin, R. Labarbe

A static device for novel fast beam delivery techniques in proton therapy PD - 0906

K. Nesteruk (USA), A. Lomax, A. Bolsi, D. Meer, S. van de Water, M. Schippers

Modeling the first proton arc delivery sequence and investigating its efficiency improvement PD - 0907

X. Ding (USA), G. Liu, L. Zhao, D. Yan, R. Deraniyagala, C. Stevens, X. Li

Track: Clinical

Poster discussions: Poster discussion 31: Metastatic Prostate

- Online

PSA Progression and survival in mCRPC patients treated with abiraterone or enzalutamide PD - 0908

F. Lopez Campos (Spain), D. Lorente, C. Llacer Pérez, A. Gómez-Iturriaga, I. Henríquez-López, P. Peleteiro, M. Ramirez-Backhaus, J. Navarro-Castellón, R. Lozano, N. Romero, P. Gajate, C. Ana, J. Gómez, S. Álvarez, J. Molina-Cerrillo, L. Pelari, A. Hernández-Corrales, V. Morillo, R. García, C. Ferrer-Albiach, E. Castro, D. Olmos

- Outcomes of metastasis-directed treatment of bone oligometastatic disease in prostate cancer** PD - 0909
P. Rogowski (Germany), N. Schmidt-Hegemann, C. Trapp, R. Shi, R. von Bestenbostel, J. Ma, C. Belka, M. Li
- Radical radiotherapy in lymph node or bone metastatic prostate cancer: a single institution series** PD - 0910
C.L. deantoni (Italy), A. Fodor, C. Cozzarini, R. Tummineri, A. Sanchez Galvan, S. Villa, S. Baroni, G. Mandurino, P. Pacifico, R. Castriconi, C. Fiorino, N.G. Di Muzio
- Real world utilization of radical local therapy in metastatic castrate sensitive prostate cancer** PD - 0911
S. Malone (Canada), C. Wallis, B. Shayegan, S. Morgan, F. Saad, S. Hotte, K. Chan, L. Park-Wyllie, S. Roy
- Outcome of PSMA-PET/CT based salvage radiotherapy for nodal recurrence after radical prostatectomy** PD - 0912
P. Rogowski (Germany), C. Trapp, R. von Bestenbostel, M. Li, U. Ganswindt, P. Bartenstein, C. Stief, C. Belka, N. Schmidt-Hegemann
- Local treatment to the primary tumor and PSA changes as prognostic factors in mCRPC** PD - 0913
F. Lopez Campos (Spain), D. Lorente, C. Llacer-Pérez, I. Henríquez, P. Peleteiro, A. Gómez-Iturriaga, M. Ramírez-Backhaus, S. Álvarez, T. Alonso-Gordoa, J. Molina-Cerrillo, C. Vallejo, A. Hervás, J. Navarro-Castellón, J. Gómez, V. Morillo, R. Lozano, N. Romero-Laorden, R. García, A. Hernández-Corrales, L. Pelari, C. Ferrer-Albiach, S. Sancho, E. Castro, D. Olmos

Track: Clinical

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- The role of locoregional RT in BCLC stage C hepatocellular carcinoma patients treated with sorafenib** PD - 0914
W.I. Chang (Korea Republic of), B.H. Kim, E.K. Chie
- SABR as a bridge therapy for HCC patients awaiting liver transplant** PD - 0915
L. spinelli (Italy), R. Carlevato, V. Chiofalo, E. Gallio, S. Gaia, G. Rizza, R. Faletti, L. Molinaro, M.G. Papotti, R. Romagnoli, G.M. Saracco, P. Fonio, G.C. Iorio, A.S. Guarneri, U. Ricardi
- role of adjuvant chemoradiotherapy in perihilar bile duct cancer** PD - 0916
C. Lee (Korea Republic of), K. Kim, H. Kim, W. Kwon, J. Jang, K. Lee, D. Oh, K.B. Lee, E.K. Chie
- Twelve-year's experience in SBRT for liver metastases, long-term results and prognostic factors.** PD - 0917
O. Hernando-Requejo (Spain), C. Rubio, X. Chen, E. Sanchez, M. Lopez, R. Alonso, A. Montero, R. Ciervide, B. Alvarez, J. Valero, M. Garcia-Aranda, J. Garcia, P. García de Acilu, D. Zucca, L. Alonso, M.A. De la Casa, J. Marti, A. Prado, M. Nuñez, M. Izquierdo, K. Rossi, C. Cañadillas, M.J. Salamanca, F. Padilla, P. Fernandez

Stereobody radiotherapy vs chemoradiation in elderly with locally advanced pancreatic cancer. PD - 0918

F. Bertini (Italy), A. Arcelli, M. Buwenge, G. Macchia, A. Guido, G. Tolento, F. Deodato, S. Cilla, V. Scotti, M.E. Rosetto, I. Djan, S. Parisi, G.C. Mattiucci, F. Cellini, M. Fiore, P. Bonomo, L. Belgioia, R.M. Niespolo, P. Gabriele, M. Di Marco, N. Simoni, R. Mazzarotto, A.G. Morganti, S. Cammelli

An accurate pretreatment evaluation improves outcomes in LAPC:a single centre review on 104 patients PD - 0919

M. Fiore (Italy), G.M. Petrianni, P. Trecca, G. D'Ercole, A. Coppola, L.E. Trodella, R. Coppola, S. Ramella

Track: Clinical

Poster discussions: Poster discussion 33: Miscellaneous

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Patients' preferences on breast cancer side effects communication: implications for a decision aid PD - 0920

H. Hasannejadasl (The Netherlands), L. Boersma, C. Richel, M. Schuurman, R. Fijten, C. Roumen

Long-term quality of life of surviving elderly head-and-neck cancer patients after (chemo)radiation PD - 0921

A. Rühle (Germany), E. Haehl, T. Kalckreuth, R. Stoian, T. Sprave, C. Zamboglou, E. Gkika, A. Knopf, A. Grosu, N. Nicolay

Neoadjuvant Chemotherapy, Radiotherapy and Interferon-β in Paediatric Nasopharyngeal Cancers PD - 0922

S. KAMER (Turkey), M. Öztürk, E. Ataseven, H. Öviz, B. Kadioglu, B. Balci, D. Kizmazoglu, M. Kantar, Y. ANACAK

Increasing access to highly specialized radiation treatments: the example of pediatric brachytherapy PD - 0923

C. Chargari (France), C. Haie-Meder, S. Espenel, M. Ben-Arush, S. Bolle, A. Borjesson, M. Cesen, A. Costa Lago, A. Desfachelles, B. De Moerloose, D. Valck, N. Dos Reis Farinha, N. Francotte, H. Glosli, G. Guillen Burrieza, S. Helfre, S. Irtan, A. Kattamis, A. Lacerda, A. Levy, L. Lyngsie, L. Mansuy, E. Mascard, W. Mlynarski, D. Orbach, C. Owens, P. Philippe-Chomette, A. Peek, B. Pizer, C. Pluchart, A.G. Rognlien, A. Rome, S. Sarnacki, A. Safwat, A. Schiavetti, J. Serre, C. Verite, N. Von der Weid, P. Wendtland, M. Wysocki, D. Valteau-Couanet, E. Deutsch, V. Minard-Colin, H. Martelli, F. Guérin

Machine learning (ML) for predicting patient-reported symptoms during breast and prostate RT PD - 0924

J. Kononen (Finland), J. Ekström, S. Mentu, V. Kataja, L. Lang, H. Virtanen, M. Metso-Lintula, T. Joensuu, C. von Briel

An European cross-cultural analysis of worsening of functional scales in prostate cancer patients after RT PD - 0925

A. Cicchetti (Italy), N. Joseph, P. Seibold, B. Avuzzi, R. Valdagni, A. Webb, D. De Ruysscher, M. Lambrecht, E. Sperk, R. Elliott, C. Talbot, L. Veldeman, J. Chang-Claude, A. Choudhury, A. Vega, D. Azria, T. Rancati, C. West

Track: Physics

Poster discussions: Poster discussion 34: Deep-learning for auto-contouring

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Online

Large scale analysis of the clinical implementation of deep learning contouring in the thorax region PD - 0926

F. Vaassen (The Netherlands), R. Canters, I. Lubken, J. Mannens, W. van Elmpt

MRI-based deep learning auto-contouring for organs-at-risk in gynecological brachytherapy PD - 0927

P. Gonzalez (The Netherlands), A. Mans, E. Schaake, M. Nowee, U. van der Heide, R. Simões

Deep learning-based classification for standardization of prostate cancer RT structure annotations PD - 0928

C. Jamtheim Gustafsson (Sweden), M. Lempart, J. Swärd, E. Persson, T. Nyholm, J. Scherman

Volumes and doses by various ways to define rectum in radiotherapy: clinical, standardized, and AI PD - 0929

C. Olsson (Sweden), R. Suresh, S. Akram, J. Niemelä, A. Valdman

Comparison of automated segmentation techniques for magnetic resonance images of the prostate PD - 0930

M. Pepa (Italy), J.L. Isaksson, M. Zaffaroni, P.E. Summers, G. Marvaso, G. Lo Presti, S. Raimondi, S. Gandini, S. Volpe, D.P. Rojas, D. Zerini, Z. Haron, P. Pricolo, S. Alessi, F.A. Mistretta, S. Luzzago, F. Cattani, O. De Cobelli, E. Cassano, M. Cremonesi, M. Bellomi, R. Orecchia, G. Petralia, B.A. Jereczek-Fossa

Deep learning-based tumor segmentation of endoscopy images for rectal cancer patients PD - 0931

L. Weishaupt (Canada), A. Thibodeau Antonacci, A. Garant, K. Singh, C. Miller, T. Vuong, S.A. Enger

Track: Physics

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Scintillator characterization in an electron FLASH beam: first experiences PD - 0932

V. Vanreusel (Belgium), A. Gasparini, A. Giammanco, M. Pacitti, M. Cociorb, E. D'Agostino, G. Felici, D. Verellen

Microbeam radiotherapy planning for a clinical lung tumor case PD - 0933

J. Winter (Germany), K.M. Kraus, M. Ahmed, S.E. Combs, J.J. Wilkens, S. Bartzsch

Spatial modulation enhances the effects of radiation on cancer cells. PD - 0934

L. Rogers (Australia), B. Chen, K. Liu, D. McKenzie, N. Suchowerska, A. Kwan

The evaluation of a spatially fractionated radiotherapy technique for large tissue sarcomas PD - 0935

G. Borzov (Israel), A. Nevelsky, R. Bar-Deroma, S. Billan, M. Lutsyk

A two-beams approach for organs-at-risk sparing in ocular passive proton therapy PD - 0936

E. Fleury (The Netherlands), P. Trnková, C. van Rij, E. Kiliç, A. Zolnay, K. Spruijt, J. Pignol, M. Hoogeman

Reference dosimetry in image guided preclinical irradiators with a small volume ionization chamber PD - 0937

I. Silvestre Patallo (United Kingdom), D. Maughan, R. Carter, A. Nisbet, G. Schettino, G. Schettino, A. Subiel

Track: RTT

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impact of an atlas on radiographer inter-observer contour variation in prostate radiotherapy PD - 0938

A. Clough (United Kingdom), R. Hales, J. Parker, J. McMahon, L. Whiteside, L. McHugh, L. Davies, J. Sanders, R. Benson, C. Nelder, A. Choudhury, C. Eccles

Feasibility of MR-guided tomotherapy on cranial & head-and-neck cases PD - 0939

W.W. Fung (Hong Kong (SAR) China), S.Y. Man, W.C. Leung, K.F. Cheng, O.L. Wong, J. Yuan, G. Chiu, K.Y. Cheung, S.K. Yu

CBCT-guided online adaptive radiotherapy: implementation of an RTT-led workflow PD - 0940

D. Daal (The Netherlands), L. Haverkate, L. ten Asbroek-Zwolsman, L. Zwart, E. van Dieren, E. de Wit

Feasibility of prostatic calcifications tracking using 4D transperineal ultrasound (TPUS). PD - 0941

W.K. leung (New Zealand), E.P.P. Pang, S.K.T. Cheung, W.H. Mui, B.B.W. Wo, H. Liu, J.C.W. Siang, J.K.L. Tuan, T.W.K. Tan, W.L. Nei, M.L.C. Wang, M.A.B. Atan, J.Y.H. Chai, J.M. Loh, A.W.T. Kor, L.H. Lip, G.K. Low, C.H.A. Liu, K.C. Lee

Intrafraction error analysis of homemade mouth-bite masks in linac-based SRS for brain metastasis PD - 0942

V. Pisoni (Italy), S. Trivellato, S. Corbetta, A. Masperi, E. Ierman, S.P. Bianchi, R. Lucchini, D. Panizza, S. Arcangeli

Set-up reproducibility in an adult brain tumour cohort using Varian 2d-3d co-registration software

PD - 0943

S. Moinuddin (United Kingdom), S. Petkar, M. Kermali, K. Indramohan, E. Wilson, N. Fersht, M. Kosmin

Digital Posters



- Correlation on G8 score with sarcopenia is a prognostic factor for OS in patients with HNC** PO - 0944
K. Zhelev (Bulgaria), Z. Zahariev, D. Katsarov, I. Mihaylova, N. Conev, I. Donev
- The prognostic value of RDW, NLR, and PLR in radiotherapy for oropharyngeal cancer** PO - 0945
E. Staniewska (Poland), B. Tomasik, R. Tarnawski, M. Miszczyk
- Treatment outcomes of carcinoma buccal mucosa treated with definitive accelerated radiotherapy** PO - 0946
C.T. Kainickal (India), G. Babu, R.R. Kumar, M. Rafi, A. M.P, L.M. Nair, F. N, P. George, R. K
- Indications for chest computed tomography in the extension study of HNC** PO - 0947
J. Pachón Ibáñez (Spain), B. Quintana Ángel, A. Wals Zurita, J. Saavedra Bejarano
- Impact of HPV status on normal tissue toxicities experienced by head & neck cancer patients** PO - 0948
X. Ray (USA), W. Sumner, L. Sutton, P. Sanghvi, I. Deichaite, V. Moiseenko
- Comparison between simultaneous integrated boost IMRT and sequential IMRT in head and neck cancers** PO - 0949
P. Ahlawat (India), M. Gairola, M.I. Sharief, S. Tandon, S. Purohit, N. Sachdeva, T. Singh, K. Dobriyal, A. Krishnan
- Comparison between two-dose levels versus three-dose levels IMRT in head and neck cancers** PO - 0950
P. Ahlawat (India), S. Tiwari, M. Gairola, S. Tandon, S. Purohit, K. Dobriyal, T. Singh, A. Krishnan
- Effects of COVID-19 during radio(chemo)therapy in head and neck cancer patients** PO - 0951
A. Bandurska-Lugue (Poland), T. Winiecki, M. Żmijewska-Tomczak, R. Poźniak-Balicka, A. Adamska, T. Bajon, D. Borowczak, P. Milecki, J. Kaźmierska
- A dynamically updating individualized survival prediction modelling tool for oral cancer** PO - 0952
I. Mallick (India), P. Roy, S. Saha, I. Arun, P. Arun, R. Sharan, K. Manikantan, P. Jain, L. Zameer, S. Chatterjee

- Impact of human papilloma virus on treatment outcomes in oropharyngeal cancer in India** PO - 0953
N. Sachdeva (India), P. Ahlawat, M. Gairola, S. Tandon, S. Purohit, M.I. Sharief, K. Dobriyal, T. Singh, A. Krishnan
- REPORT; REirradiation and PD-1 blockade On Recurrent squamous cell head and neck Tumors** PO - 0954
Å. Bratland (Norway), H.A. Eide, J.A. Kyte
- Tumor volume and ADC changes during the time course of RT on a 1.5T MR-Linac in HNC** PO - 0955
S. Boeke (Germany), J. Habrich, M. Nachbar, C. Gani, S. Butzer, J. Boldt, C. Marks, D. Zips, K. Nikolaou, F. Schick, D. Thorwarth
- Radiotherapy in fragile elderly head and neck cancer patients: a single centre experience** PO - 0956
I. Luciani (Italy), C. Pisani, L. Masini, V. Destefanis, S. Berretta, E. Ferrara, G. Loi, M. Krengli
- Organ-preservation in Post-Cricoid and Upper-Esophagus (PCUE) cancers: Seeking optimum outcomes** PO - 0957
S. Sinha (India), S. Ghosh Laskar, M. Singh, A. Budrukhar, N. Mummudi, M. Swain, J.P. Agarwal, T. Gupta, V. Murthy, K. Prabhash, A. Joshi, V. Noronha, V. Patil, N. Menon
- Comparison of CCRT and RT alone after Induction Chemotherapy for Hypopharyngeal Cancer** PO - 0958
M. Wan (China), D. Zhao, B. Zheng, S. Xiao, Y. Sun, W. Wang
- A study correlating type of tobacco use with dosimetry of parotids in H&N patients treated with IMRT** PO - 0959
N. Patil (India), S. Lewis, U. V, A. Reddy, A. Singh, P. Augustine, S. Chauhan, K. Sharan
- Long-term outcome of IMRT-SIB and chemotherapy in nasopharyngeal carcinoma in a non-endemic area** PO - 0960
I. Linares Galiana (Spain), N. Garcia Exposito, M. Plana, J. Brenes, M. Oliva, J. Nogues, M. Cos, L. Rodriguez, J. Tornero, P. Mora, A. Lozano
- Role of depth of infiltration (DOI) as independent prognostic factor in pT1--T2 N0 oral tongue SCC** PO - 0961
M. Augugliaro (Italy), D. Alterio, M. Tagliabue, P. D'urso, S. Volpe, R. Bruschini, A. Farneti, G. Marvaso, I. Turturici, S. Riccio, B.A. Jereczek-Fossa, G. Sanguineti, M. Ansarin
- Evaluation of anxiety and depression in head and neck cancer patients during radiotherapy** PO - 0962
M.U. Karim (Pakistan), B.M. Qureshi, A. Hafiz, N. Ali, S. Abrar, H. Iftikhar, A.N. Abbasi

- How to optimize prognosis prediction of nasopharyngeal carcinoma in the era of modern radiotherapy?** PO - 0963
O. Nouri (Tunisia), W. Mnejja, N. Fourati, F. Dhouib, W. Siala, I. Charfeddine, A. Khanfir, L. Farhat, J. Daoud
- Survival outcomes of hypopharyngeal SCC versus cervical oesophageal SCC** PO - 0964
D. Guiral (United Kingdom), S.Y. Lim, W. Park
- Vitamin D, vitamin B12 and acute toxicity in head and neck cancer patients undergoing radiotherapy.** PO - 0965
G. Fanetti (Italy), J. Polesel, F. Matrone, I. Turturici, C. Gobitti, S. Alfieri, V. Lupato, F.B. La Torre, E. Fratta, E. Muraro, M.T. Casarotto, R. Guerrieri, V. Giacomarra, A. Steffan, E. Vaccher, G. Franchin
- Sarcopenia as prognostic marker in elderly HNSCC patients undergoing (chemo-)radiation** PO - 0966
E. Haehl (Germany), L. Alvino, A. Rühle, T. Sprave, A. Grosu, N.H. Nicolay
- Factors associated with feeding tube requirement in Oropharyngeal Cancer treated with IMRT.** PO - 0967
O. Monaghan (Ireland), N. O'Dwyer, M. Dunne, J. Nugent, N. Coughlan, A. Nolan, F. Gilbert, A. Glynn, F. Duane, C. Parkes, S. Brennan
- ongoing head and neck contour peer review improves quality of radiotherapy targets** PO - 0968
L. McGee (USA), J. Rwigema, M. Halyard, T. DeWees, J. Gagneur, S. Patel
- Evaluation of the use of reirradiation in head and neck recurrent cancer or second primary tumor.** PO - 0969
L. Gutiérrez Bayard (Spain), M.C. Salas Buzón, R. Rodriguez Sanchez
- Impact nutritional intervention in patients with head and neck cancer receiving radiotherapy.** PO - 0970
L. Gutiérrez Bayard (Spain), S. Sayago Gil, C. Muñoz Higuera
- Locally advanced oropharyngeal cancer: a dynamic nomogram** PO - 0971
F. De Felice (Italy), L. Humbert-Vidan, M. Lei, A. King, T. Guerrero Urbano
- Pre-treatment haemoglobin as a surrogate marker for survival in head & neck squamous cell carcinoma** PO - 0972
S. Tandon (India), M. Gairola, P. Ahlawat, S. Purohit, P. Umesh, A. Krishnan

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<i>E. Tang (France), T. Nguyen, N. Haddy, B. Schwartz, C. Even, P. Blanchard, P. Gorphe, Y. Tao, F. Ferrand</i>	
Comparing delineation techniques in radiotherapy of node positive head and neck squamous cell cancer	PO - 0974
<i>C. Brooks (United Kingdom), M. Powell, A. Sibtain</i>	
ICT Plus Simultaneous Modulated Accelerated Radiation Therapy in Non-operative SCCH/L	PO - 0975
<i>B. Cai (China), L. Ma, L. Meng, J. Mo, S. Xu, B. Qu, F. Liu</i>	
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<i>S.N. Marschner (Germany), C. Maihöfer, R. Späth, N. Kienlechner, L. Schüttrumpf, P. Baumeister, J. Hess, H. Zitzelsberger, A. Friedl, U. Ganswindt, C. Belka, F. Walter</i>	
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<i>S. Purohit (India), P. Ahlawat, M. Gairola, S. Tandon, M.I. Sharief, N. Sachdeva, T. Singh, K. Dobriyal, A. Krishnan</i>	
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<i>M. Feng (China), Q. Yin, Y. Qi, L. Li, M. Lan, X. Lai, M. Fan, J. Zhang, F. Li, W. Wang, J. Lang</i>	
Tumour volume as prognostic factor for recurrent head and neck cancers treated with re-irradiation	PO - 0979
<i>P. Ahlawat (India), M. Gairola, S. Tandon, S. Purohit, N. Sachdeva, M.I. Sharief, T. Singh, K. Dobriyal, A. Krishnan</i>	
Predicting toxicity after Head-and-Neck cancer RT: synergist role of biological markers & dosimetry?	PO - 0980
<i>E. Orlandi (Italy), M. Duclos, N.A. Iacovelli, E. Berthel, S. Deneuve, A. Cavallo, R. Valdagni, T. Rancati, S. Pereira</i>	
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- early prediction of parotid gland function based on ADC during radiotherapy for NPC: a phase II study** PO - 0983
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- Impact of anterior commissure involvement in early glottic cancer treated with radical IMRT** PO - 0984
P. Ahlawat (India), M. Gairola, S. Purohit, S. Tandon, N. Sachdeva, M.I. Sharief, T. Singh, K. Dobriyal, A. Krishnan
- Treatment outcome of 33 versus 35 fractions among nasopharyngeal carcinoma using helical approach** PO - 0985
M. Cruz (Philippines), M.A.R. Agustin, M. Valenzuela
- Radiotherapy versus Surgery in Early Stage HPV-positive Oropharyngeal Cancer** PO - 0986
D. KIM (Korea Republic of), H. Wu, J.H. Kim, S. Ahn, E. Chung, K. Eom, Y.H. Jung, W. Jeong, T. Kwon, S. Kim, C.W. Wee
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Á. Fernández Forné (Spain), M.J. García Anaya, M.D. Toledo Serrano, M. Muñoz Lupiáñez, J.A. Medina Carmona, J. Gómez-Millán Barrachina
- Treatment package time and Hb in head and neck SCC treated with surgery and post-operative RT** PO - 0990
C. Blake (United Kingdom), B. Hunter, Z. Awad, D. Gujral
- Impact of low muscle quality in patients with head and neck cancer undergoing chemoradiation** PO - 0991
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- Outcomes and toxicities of curative reirradiation for head and neck carcinomas** PO - 0992
A. Beddok (France), C. Saint-Martin, C. Ala Eddine, L. Champion, S. Krhili, A. Chilles, L. Catteau, F. Goudjil, S. Sefkili, M. Amessis, D. Peurien, O. Choussy, C. Le Tourneau, R. Dendale, I. Buvat, G. Créhange, V. Calugaru

- Malnutrition by GLIM criteria is a risk factor for survival of NPC patients undergoing radiotherapy** PO - 0993
M. Wan (China), D. Zhao, B. Zheng, S. Xiao, Y. Sun
- Correlation of PDL1-Tumor Infiltrating Lymphocytes in Carcinoma Oropharynx with toxicity & response** PO - 0994
S. Srivastava (India), M. Rastogi, A.K. Gandhi, K. Sahni, N. Husain, R. Khurana, R. Hadi, S. Sapru, S.P. Mishra, A. Srivastava, A. Bharati, S. Parida
- Locally advanced nasopharyngeal carcinoma treated with a mixed beam (photons-protons) radiotherapy.** PO - 0995
I. Turturici (Italy), G. Marvaso, D. Alterio, E. D'Ippolito, B. Vischioni, S. Ronchi, M. Bonora, V. Vitolo, E. Mastella, G. Magro, P. Franco, M. Krengli, P. Fossati, R. Ricotti, S. Gandini, S. Comi, A.M. Camarda, E. La Rocca, S. Volpe, M. Tagliabue, E. Verri, E. Orlandi, B.A. Jerezek-Fossa, R. Orecchia
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- Lack of CTV_P2 is not associated with a detrimental outcome in oropharyngeal cancer: a cohort study** PO - 0997
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- Financial difficulties during chemo-radiotherapy for nasopharyngeal carcinoma: A prospective study** PO - 0999
N. Fourati (Tunisia), Z. Fessi, S. Zouari, F. Dhouib, W. Siala, I. Charfeddine, A. Khanfir, W. Mnejja, J. Daoud
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B. Yanes, S. Slimani, N. Lardon, S. Pellissier, A. Auteri, M. Hotz, A. Stern, Y. Jaquet, B. De Bari (Switzerland)
- The effect of switching to carboplatin chemo-RT for cycle 2 in cisplatin-ineligible HNSCC patients** PO - 1001
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<i><u>L. Bauwens (France)</u>, V. Gregoire</i>	
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<i><u>A. Nakajima (Japan)</u>, S. Hiraoka, M. Yoshimura, Y. Matsuo, T. Mizowaki</i>	
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<i><u>T. Fujisawa (Japan)</u>, A. Motegi, S. Zenda, H. Hojo, M. Nakamura, Y. Hirano, H. Hirata, R. Vijay Parshuram, K. Matsuura, T. Shinozaki, R. Hayashi, T. Akimoto</i>	
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<i><u>J. Wang (China)</u></i>	
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<i><u>K. Kikuchi (Japan)</u>, R. Nakamura, K. Shiga, T. Segawa, H. Oikawa, H. Ariga</i>	
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<i><u>A. Embring (Sweden)</u>, E. Onjukka, C. Mercke, I. Lax, A. Berglund, S. Børnedal, B. Wennberg, E. Dalqvist, S. Friesland</i>	
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<i><u>S. Sjøby (Denmark)</u>, A. Gothelf, N. Gyldenkerne, J. Bentzen, K. Nowicka-Matus, T. Tramm, J.G. Eriksen</i>	

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<i>W. Peng (China), C. Hu, T. Xu, X. Zhou</i>	
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<i>J. Vermaire (The Netherlands), C. Raaijmakers, I. Verdonck-de Leeuw, F. Jansen, C. Terhaard, C. Speksnijder</i>	
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<i>A. Rühle (Germany), C. Stromberger, E. Haehl, C. Senger, A.E. Falkenstein, R. Stoian, C. Zamboglou, A. Knopf, A. Grosu, N. Nicolay</i>	
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<i>J. van Timmeren (Switzerland), M. Bogowicz, M. Chamberlain, S. Ehrbar, R. Dal Bello, H. Garcia Schüler, J. Krayenbuehl, L. Wilke, N. Andratschke, M. Guckenberger, S. Tanadini-Lang, P. Balermipas</i>	
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<i>P.L. Yip (Hong Kong (SAR) China), P. Chan, K. Cheung, C. Chow, W. Lai, H. Lee, K. Lam, C. Chiang, C. Wong, M. Poon, M. Tong, K. Au, W. Ng, K. Ngan, A. Lee, Y. Tung</i>	
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<i>N. Bachmann (Switzerland), M. Walsler, C. Tully, A. Köthe, D. Leiser, N. Bizzocchi, D.C. Weber</i>	
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<i>T. Blazek (Czech Republic)</i>	
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E. Lodi Rizzini (Italy), L. Zanoni, E. Tabacchi, A. Repaci, C. Scampoli, D. Vallerossa, V. Laghi, L. Cavallini, N. Razganiayeva, R. Cardano, E. Scirocco, S. Cammelli, G.P. Frezza, A.G. Morganti, S. Fanti, F. Monari

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S. Robinson (United Kingdom), J. Towler, R. Kitson, D. Saleh, H.C. Younan, S. Mukhopadhyay, J. Weir, D. Gujral

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R. Tummineri (Italy), A. Fodor, A. Sanchez Galvan, S.L. Villa, S. Baroni, G. Mandurino, P. Pacifico, C.L. Deantoni, F. Zerbetto, A.M. Deli, S. Broggi, A. Del Vecchio, N.G. Di Muzio

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E. Lodi Rizzini (Italy), V. Allegri, L. Zanoni, E. Tabacchi, V. Laghi, L. Strigari, A. Repaci, C. Scampoli, D. Vallerossa, E. Deraco, L. Cavallini, F. Bertini, S. Cammelli, G.P. Frezza, A.G. Morganti, S. Fanti, F. Monari

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- Homogeneous field radiotherapy in adults medulloblastoma. Report of four cases.** PO - 1030
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- Tumour volume influences local control and overall survival following Stereotactic Radiosurgery** PO - 1031
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- Effects of SRS in patients affected with brain metastases from NSCLC: a single institution report** PO - 1032
I. Chiovatero (Italy), C. Mantovani, A. Vella, G.C. Iorio, E. Orlandi, M. Cerrato, C. Cavallin, S. Badellino, A. Gastino, E.M. Cuffini, M. Levis, U. Ricardi
- Molecular profile and early MRI changes after chemoradiation in high grade diffuse astrocytoma** PO - 1033
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A. Mousli (Luxembourg), V. Bocquet, B. Frederick, C. Louis, S. Biver, S. Philippi, P. Nickers, M. Untereiner, G. Vogin
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Y. Takase (Japan), M. Kawamura, R. Nakahara, J. Itoh, Y. Oie, M. Okumura, T. Kamomae, Y. Itoh, T. Ono, S. Naganawa
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K. Ratanchandani (India), S. Kunikullaya, A. Parikh, M. Mehta, S. Patel, V. Shivhare, S. Rath, V. Modi, H. Jain, D. Anand, N. Bathija
- Stereotactic radiotherapy with single-isocenter in multiple brain metastases** PO - 1039
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A. La Rosa de los Ríos (Spain), L. Arribas, M. Chust, V. Crispin, J.L. Guinot, B. Quiles, S. Canos, Y. Murria, E. Arana, M.J. Perez
- Skull base chordomas and chondrosarcomas: Trento Protontherapy Centre early experience** PO - 1041
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L. Sonera-Marcos (Spain), R.P. PEDRO, M. Elena, M. David M
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A. Alayón Afonso (Spain), M. Montero Feijoo, J. Olivera Vegas, J. Ayerbe García, I. Azinovic Gamo, S. Gomez Tejedor, L. Guzmán Gómez, J. Luna Tirado, C. Díaz Silvera, J. Vara Santos, A. Nieto Riveiro, A. Martínez Felipe, M. Perez Cobo, W. Vásquez Rivas
- Multifraction stereotactic radiotherapy for brain metastases: initial experience.** PO - 1046
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- Prospective evaluation of 167 brain metastases in Indian patients treated with robotic radiosurgery** PO - 1047
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- FluorEthyl-I-Tyrosine PET in glioma radiotherapy planning: an isotoxic dose prescription approach** PO - 1048
C. Delli Paoli (Italy), M. Esposito, B. Grilli Leonulli, I. Laghai, G. Muscas, M. Betti, M. Perna, V. Baldazzi, A. Konze, A. Della Puppa, S. Sestini, S. Russo, S. Scoccianti
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- Skull base meningiomas treated with Radiosurgery/Fractionated Stereotactic Radiotherapy** PO - 1054
M. Rodriguez (Spain), M. Rico, A. Barco, L. Rosas, E. Burillo, E. Martinez
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L. Paisán (Spain), M.R. Magallón Sebastián, M.I. García Berrocal, J. Romero Fernández, I. Zapata Paz, B. Gil Haro, R. Benlloch Rodríguez, J.F. Obeso Herrero, O. Engel, A. Valcárcel Díaz, S. Santana Jiménez, P. Sarrión Rubio de la Torre
- The use of Auto-Segmentation tools to assess the SUV-isocontour in FET-PET to GTV delineation** PO - 1056
A. Gawish (Germany), M. Walker, M. Kreißl, B. Röllich, T. Brunner
- Stereotactic radiosurgery of postoperative resection cavity for brain metastases** PO - 1057
F. Sousa (Portugal), B. Castro, A. Aguiar, J. Rodrigues, T. Viterbo, J. Lencart, A. Soares, T. Ramos, A. Pires, S. Conde
- Should we include surgical tracts and scars in the CTV of High-grade gliomas?** PO - 1058
O. Santa Cruz (Switzerland), S. Slimani, L. Hirschi, C. Tamburella, P. Weber, D. Dragusanu, D.B. Berardino
- LINAC-based radiosurgery for brain metastasis: patterns of recurrence and predictors of response** PO - 1059
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- Cranial radiotherapy as salvage treatment in relapsed primary CNS lymphomas** PO - 1060
M. Volpini (Canada), J. Song, R. Samant, D. MacDonald, V. Nair
- Acute relative lymphopenia is associated with poor survival in GBM following postoperative chemo-RT** PO - 1061
S. Arcangeli (Italy), R. Mapelli, C. Julita, S.P. Bianchi, R. Lucchini, M. Midulla, F. Puci, J. Saddi, S. Trivellato, D. Panizza, E. De Ponti
- Stereotactic Radiosurgery for Brain Metastases from Renal Cell Carcinoma: A retrospective study** PO - 1062
G. Rangaswamy (Ireland), O. Houlihan, J. Nicholson, H. O'Driscoll, M. Dunne, C. Skourou, C. Faul, D. Fitzpatrick
- Multicenter study for breast cancer brain metastasis: Role of whole-brain radiotherapy (KROG 1612)** PO - 1063
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- Corneal and hippocampal dose in brain radiosurgery related with location: A phantom dosimetric study** PO - 1064
P. Vias (India), S. Goyal, R. Singh, R. Madan, V. Singla
- Overall survival of patients treated with repeated courses of stereotactic radiation therapy** PO - 1065
L. Kuntz (France), P. Meyer, C. Le Fèvre, C. Mazzara, A. Keller, C. Renaud, G. Noel, D. Antoni
- Quality and efficiency of automated organ at risk delineation on MRI in the brain** PO - 1066
J. Crouzen (The Netherlands), J. Zindler, R. Wiggeraad, M. Mast, S. Lemmouy, C. Gadellaa-van Hooijdonk, S. van Geen, S. Hutschemaekers, M. Kiderlen, J. Roos, S. de Vet, N. van der Voort van Zyp, A. Petoukhova
- Exploratory analysis of serial 18F-Fluciclovine PET and mpMRI during chemoradiation for glioblastoma** PO - 1067
K. Fatania (United Kingdom), R. Frood, M. Tyyger, S. Fernandez, D.L. Buckley, L. Murray, A. Scarsbrook, S. Short, S. Currie
- SRS in brain metastases from breast cancer: a single-centre retrospective study** PO - 1068
R. Ching-López (Spain), M. Zurita, P. Vargas, R. del Moral, J. Expósito Hernández
- Multiple Brain Metastases concomitantly treated with robotic SRS/SRT** PO - 1069
A. Sanchez Galvan (Italy), A.M. Deli, A. Fodor, R. Tummineri, S.L. Villa, S. Baroni, G. Mandurino, P. Pacifico, C.L. Deantoni, N. Slim, F. Zerbetto, C. Fiorino, S. Broggi, A. Del Vecchio, S. Arcangeli, N.G. Di Muzio

- The potential implications of proton planning technique for LET-related changes on MRI** PO - 1070
A. Bertolet (USA), R. Abolfath, D. Carlson, R.A. Lustig, C. Hill-Kayser, A. Michelle, A. Carabe
- Hypofractionated stereotactic radiotherapy of brain metastases: a retrospective analysis.** PO - 1071
L. Marco (Italy), M. Trignani, G. Ingresso, F.C. Di Guglielmo, G. Centofanti, D. Fasciolo, V. Bini, D. Genovesi, C. Aristei
- FSR for arterio-venous malformations: a single-centre retrospective study.** PO - 1072
R. Ching-López (Spain), S. Rodríguez, P. Vargas, M. Zurita, R. del Moral, J. Expósito
- Feasibility of the APRICOT-trial: identifying MRI biomarkers for radiation-induced cognitive changes** PO - 1073
E. van Grinsven (The Netherlands), A. Bhogal, J. Guichelaar, J. Siero, H. Hoogduin, M. van Zandvoort, J. Verhoeff, M. Philippens
- Track: Clinical
- Digital Poster: Haematology**
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- Is the mean heart dose the best predictor of cardiac toxicity after Hodgkin Lymphoma irradiation?** PO - 1074
R. Moujahed (Tunisia), M. Ben Rejeb, S. Ghorbel, A. Hamdoun, Z. Naimi, M. Bohli, L. Kochbati
- Bridging Radiotherapy prior to Brexucabtagene Autoleucel CAR T-Cell Therapy in Mantle Cell Lymphoma** PO - 1075
N. Figura (USA), A. Sim, S. Dahiya, F. Lutfi, A. Rapoport, P. Mohindra, A. Dohm, J. Chavez, B. Shah, F. Khimani, A. Lazaryan, M. Davila, C. Bachmeier, T. Nishihori, H. Liu, S. Kim, F. Locke, M. Jain, T. Robinson
- Hypofractionated Total Marrow Irradiation in second allogeneic hematopoietic stem cell transplantats** PO - 1076
S. Vaqge (Italy), D. Esposito, D. Tramontano, R. Corvò, E. Angelucci, A. Dominietto
- Population-based study on the association between autoimmune disease and lymphoma in Korea** PO - 1077
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- Do you use RT as part of bridging therapy for the treatment of DLBCL with CAR-T cells?** PO - 1079
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- Effects of socioeconomic factors on prognosis of breast cancer in patients younger than forty years.** PO - 1083
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- Radiotherapy with simultaneous integrated boost for breast cancer: acute toxicity outcomes** PO - 1084
I. Ratosa (Slovenia), M. Anzic, A. Gojkovic Horvat, M. Ivanetic Pantar, D. Golo, J. Gugic, M.S. Paulin Kosir, T. Marinko
- Longitudinal assessment of immune infiltrate in breast cancer treated with neoadjuvant radiotherapy** PO - 1085
R. Robinson (United Kingdom), I. Roxanis, F. Sobhani, K. Zormpas-Petridis, H. Steel, S. Anbalagan, A. Sommer, L. Gothard, A. Khan, F. MacNeill, A. Melcher, Y. Yuan, N. Somaiah
- Identification of highly expressed genes in high risk breast cancer using bioinformatic analysis** PO - 1086
S. Ghasemi (Iran Islamic Republic of), M. Mobasheri, S.R. Mahdavi, H. Mirzaee
- Hypofractionated radiotherapy for breast cancer orbital lesion: a multicentric series of 35 patients** PO - 1087
I. Desideri (Italy), L.P. Ciccone, G. Piperno, M. Augugliaro, B.A. Jereczek-Fossa, P. Navarria, L. Dominici, M. Scorsetti, V. Salvestrini, G. Riva, V. Di Cataldo, L. Visani, M. Loi, I. Meattini, L. Livi

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P. Loap (France), F. Laki, P. Beuzeboc, A. Fourquet, Y. Kirova
- Tumor bed boost volume delineation and planning post-oncoplasty following multidisciplinary approach** PO - 1090
T. Wadasadawala (India), J. Manjali, G. Chitkara, R. Pathak, P. Thakkar, S. Joshi, R. Krishnamurthy, N. Nair, V. Parmar, R. Sarin
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O. Micke (Germany), K. Kisters, U. Schäfer, R. Mücke
- Evaluating cardiac structures exposure in deep inspiration breathhold radiotherapy for breast cancer** PO - 1093
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- Deep Breath Inspiration Hold Radiotherapy: innovative organ preservation technique. Our experience.** PO - 1094
S. Falivene (Italy), V. Nardone, M. Mormile, P. Frallicciardi, M. Cozzolino, F.M. Giugliano, C. Guida
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V. Vakaet (Belgium), H. Van Hulle, G. Braems, K. Vandecasteele, W. De Neve, H. Denys, L. Veldeman
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C. Becherini (Italy), G. Stocchi, L. Visani, M.C. De Santis, R.R. Colciago, S. Pedretti, S.M. Magrini, M. Nuzzo, D. Genovesi, L.A. Ursini, A. Bonanni, E. Ippolito, S. Ramella, F. De Renzi, A. Fontana, P. Vitucci, L. Angelini, C. Orsatti, I. Desideri, V. Scotti, L. Orzalesi, M. Bernini, L. Sanchez, J. Nori, S. Bianchi, I. Meattini, L. Livi

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- Implementation of FAST-Forward during COVID19: Report of acute skin toxicity /resource implications** PO - 1100
K. Nugent (Ireland), E. Quinlan, S. Cleary, H. O'Driscoll, J. Trousdell, J. Williams, M. Dunne, O. McArdle, F.K. Duane
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A. Aly (Egypt), S. Lasheen, H. Attia, E. Khalaf
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A. Peters (United Kingdom), S. Anderson, H. Marashi, G. Lumsden, A. Alhasso, D. Cartwright, O. O'Brien
- Local control in hypofractionated RT after breast-conservative surgery among young Egyptian patients** PO - 1110
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- Is Calendula useful for radiation dermatitis in breast cancer? A single-centre clinical trial.** PO - 1111
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M. Chand-Fouché (France), C. Colnard, D. Lam Cham kee, J. Gal, C. Dejean, M. Gautier, J. Feuillade, A. Mana, Y. Fouché, Y. Delpech, M. Dejode, J. Gérard, E. Barranger, J. Hannoun-Levi
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- Incidental dose to axilla in breast cancer patients undergoing post-operative radiotherapy** PO - 1118
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- Is there a role for bolus in the modern era of breast cancer treatments? A retrospective analysis.** PO - 1124
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A. Mehta (India), P. Kumar, S. N.S., A. S.K.
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- Hypofractionated whole breast radiotherapy in large breast size: is it really a solved issue?** PO - 1142
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A. Masarykova (Slovakia), D. Scepanovic, P. Povinec
- Long non-coding RNA NEAT1 levels expression associate with local recurrence in lung cancer patients** PO - 1151
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X. Huang (Australia), S. Vinod, P. Keall, M. Field, V. Batumalai, L. Holloway
- Temporal muscle thickness as a potential biomarker of OS in NSCLC patients with BM treated with SRT** PO - 1156
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- Validation of a spatial dose pattern predicting pulmonary toxicity in patients treated with VMAT for a lung cancer** PO - 1158
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- Prognostic role of pro-inflammatory cytokines in multimodal treatment of inoperable stage III NSCLC** PO - 1159
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- An automated segmentation algorithm for GTV delineation in SBRT of the lung, a proof of concept.** PO - 1160
A.A. Mohamed (Germany), K. Gester, L. Schmitz, M. Schlenter, A. Chughtai, M. Ivanciu, M. Eble
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L. Merckel (The Netherlands), S. Hackett, A. van Lier, M. van den Dobbelsteen, M. Rasing, L. Snoeren, C. van Es, M. Fast, P. van Rossum, J. Verhoeff
- DLCA-R: Variation in elderly stage III NSCLC treated with definitive chemoradiation.** PO - 1162
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S. Ramella (Italy), M. Miele, S. Silipigni, S. Gentile, G. Iannello, E. Cordelli, P. Soda, M. Fiore
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I. Fajardo Paneque (Spain), J.L. Tisaire Sánchez, L. Díaz Gómez, M.J. Macías Lozano, J. Jaén Olasolo
- 30 Gy single dose stereotactic radiation therapy in a series of patients with lung oligometastasis** PO - 1169
D. Anzellini (Italy), G. Scalabrino, B. Campanella, F. Perrone, A.M. Ascolese, M. Valeriani, M.F. Osti
- Between a rock and heart place – cardiac sparing in MRI-guided lung SBRT** PO - 1170
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- Two-stage CT-based radiomic signature to predict the efficacy of immunotherapy** PO - 1171
P. Yang (China), J. Chen, H. Elhalawani, Y. Jin, J. Liu, A. Mohamed, H. Jin, Y. Shi, H. Wang, J. Wang
- Ultra-central lung tumors: safety and efficacy of protracted stereotactic body radiotherapy** PO - 1172
J. Lodeweges (The Netherlands), P. van Rossum, M. Bartels, A. van Lindert, J. Pomp, M. Peters, J. Verhoeff
- Previous pneumectomy is a risk factor of severe radiation pneumonitis after IMRT for lung cancer** PO - 1173
S. Tatsuno (Japan), H. Doi, W. Okada, E. Inoue, K. Nakamura, K. Sano, Y. Wada, T. Uehara, M. Inada, K. Nakamatsu, K. Monzen, M. Hosono, K. Matsumoto, M. Tanooka, M. Tanaka, Y. Nishimura

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H. Wong (Hong Kong (SAR) China), F. Lim, A. Cheng
- Influence of Charlson comorbidity index in hypofractionated radiotherapy treatment in lung cancer.** PO - 1175
M.A. González Ruiz (Spain), V. Vera Barragán, A. Wals Zurita, J.J. Cabrera Rodríguez
- Duration of acute esophageal toxicity in RT-CHT for NSCLC with different fractionation schedules** PO - 1176
J. Socha (Poland), E. Wasilewska-Teśluk, R. Stando, Ł. Kuncman, L. Kępa
- A heart valves contouring atlas on average intensity projection 4D-CT for lung cancer radiotherapy** PO - 1177
J. Socha (Poland), A. Rygielska, B. Uziębło-Życzkowska, J. Chałubińska-Fendler, A. Jurek, M. Maciorowska, M. Mielniczuk, P. Pawłowski, D. Tyc-Szczepaniak, L. Kępa
- Treatment of stage III NSCLC in a developing country. Needs for improvement.** PO - 1178
E. Kozma (Albania), E. Ruci, K. Mati, I. Alimehmeti, E. Karulli, J. Tula
- Radiation induced pneumonitis during COVID-19: artificial intelligence for differential diagnosis.** PO - 1179
E. Ippolito (Italy), L.E. Trodella, C.C. Quattrocchi, F.M. Giordano, B. Santo, S. Ramella
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M. Yakar (Turkey), D. Etiz, O. Celik, A. Ozen, M. Metintas, G. Ak, S. Yilmaz, D. Kutri
- Hypofractionation in nsclc as the new standard of care during SARS-CoV-2 pandemia** PO - 1181
V. Vera Barragán (Spain), M.Á. González Ruiz, J.J. Cabrera Rodriguez, P. Simón Silva, J. Quirós Rivero, A. Wals Zurita
- The Relation of miRNA21/155 levels with acute side effects and treatment response in stage III NSCLC** PO - 1182
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- Mean heart dose predicts survival of NSCLC patients treated with chemoradiotherapy and durvalumab** PO - 1183
E. Čirić (Slovenia), S. Jelerčič, M. Vrankar, J. Buč Hadžić, K. Stanič, A.L. Vodušek

- Pathological response after neoadjuvant chemotherapy versus chemoradiotherapy in stage III NSCLC** PO - 1184
D. Muñoz Guglielmetti (Spain), D. Sánchez, R. Reyes, M. Boada, J. Mases, M. Mollà, F. Casas
- Development of a nomogram for predicting brain metastasis of small cell lung cancer** PO - 1185
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- Treatment outcomes of stereotactic body radiotherapy for lung cancer according to tumor appearances** PO - 1186
Y. Hamamoto (Japan), K. Makita, H. Kanzaki, K. Nagasaki
- Overall survival prediction in NSCLC: a radiomic approach with a multi-VOI analysis** PO - 1187
S. Silipigni (Italy), M. Miele, S. Gentile, E. Molfese, P. Soda, G. Iannello, R. Sicilia, M. Fiore, S. Ramella
- Adjuvant Involved Field versus Elective Nodal Irradiation for N2 NSCLC: a dosimetric study** PO - 1188
M. Mohammed (Lebanon), A. Mkanna, P. Ramia, D. Mahmoud, L. Hilal, F. Olleik, M. Dagher, Z. Ayoub, W. Jalbout, B. Shahine, F. Geara, B. Youssef
- Stereotactic radiotherapy for lung oligometastases from colorectal cancer** PO - 1189
A. Fodor (Italy), C.L. Deantoni, R. Tummineri, C. Fiorino, I. Dell'Oca, M. Mori, S. Broggi, M. Pasetti, L. Perna, S.L. Villa, G. Mandurino, A. Sanchez Galvan, S. Baroni, P. Pacifico, A. Del Vecchio, N.G. Di Muzio
- Lung lesions treated with CyberKnife: An Indian single centre experience** PO - 1190
A. Sasidharan (India), R. Kamath, P. KU, A. R, S. K Reddy, H. Nair, A. E H, D. Dutta
- Immunotherapy and radiation (iRT) in a 'Real-life' setting. Analysis on safety and effectiveness** PO - 1191
A. Angrisani (Italy), C. Greco, E. Ippolito, B. Santo, S. Gentile, P. Falco, M. Miele, M. Fiore, S. Ramella
- Safety analysis of Stereotactic Body Radiotherapy 8 fractions of 7,5 Gy for Ultracentral Lung Tumors** PO - 1192
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- The impact of driver mutations on the pathologic response to Chemoradiation (CRT) in LA-NSCLC** PO - 1193
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- A predictive model for OS in patients treated with Stereotactic Radiotherapy for early-stage NSCLC** PO - 1194
P. Borghetti (Italy), G. Costantino, V. Santoro, M. Sepulcri, M. Maddalo, D. Greco, F. Frassine, P. Vitali, E. Pastorello, S. La Mattina, G. Volpi, J. Imbrescia, S.M. Magrini
- Residual MTV after chemoradiotherapy ± immune checkpoint inhibition for inoperable stage III NSCLC** PO - 1195
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- Role of prophylactic cranial irradiation in limited and extensive-stage small cell lung cancer** PO - 1196
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- Plan complexity as an independent outcome predictor of lung cancer patients treated with SBRT** PO - 1197
C. Li (China), J. Shen, A. Shi, Y. Zhang (Corresponding Author)
- Changes in radical radiotherapy for lung cancer patients in the UK during the COVID-19 pandemic.** PO - 1198
W. Croxford (United Kingdom), K. Banfill, I. Fornacon-Wood, A. Britten, C. Carson, M. Hatton, K. Thippu Jayaprakash, A. Jegannathen, P. Keng Koh, N. Panakis, C. Peedell, A. Pope, C. Powell, C. Stilwell, B. Thomas, V. Wood, S. Yun Zhou, G. Price, C. Faivre-Finn
- Cardiac disease and tumour below T7 confer poorer prognosis following radical radiotherapy for NSCLC** PO - 1199
A. Colori (United Kingdom), M. Hawkins, A. Mitchell, C. Hiley, S. Dubash, U. Johnson, J. Fenwick, R. Mendes, D. Carnell, J. Wilson
- Development and validation of two Australian models to predict 2-year survival in stage I-III NSCLC** PO - 1200
S. Vinod (Australia), N. Lee, J. Shafiq, M. Field, C. Fiddler, S. Varadarajan, S. Gandhidasan, E. Hau
- Importance of coronary calcium score in patients with locally advanced non-small cell lung cancer** PO - 1201
A. Olloni (Denmark), A. Olloni, A. Diederichsen, O. Hansen, C. Brink, T. Schytte
- Proton Beam Therapy for Stage I and Lymph Node-Negative Stage IIA Non-Small Cell Lung Cancer** PO - 1202
T. Asao (Japan), K. Yasui, N. Ota, M. Shioi, K. Hayashi, S. Maki, Y. Ito, T. Onoe, H. Ogawa, H. Asakura, S. Murayama, T. Nishimura, T. Takahashi, Y. Ohde, H. Harada
- lung-perfusion-spect contribution in lung cancer radiotherapy planning process** PO - 1203
S. Baroni (Italy), I. Dell'Oca, R. Tummineri, A. Sanchez Galvan, F. Borroni, S.L. Villa, G. Mandurino, P. Pacifico, A. Chiara, M. Pasetti, N. Slim, E.G. Vanoli, A. Del Vecchio, S. Arcangeli, N.G. Di Muzio

Adjuvant immunotherapy after concurrent chemoradiotherapy for stage 3 NSCLC, outcomes from a large cancer centre PO - 1204

F. Sun (United Kingdom), H. Mason, K. Franks, M. Teo, P. Dickinson, K. Clarke, P. Jain

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Factors predicting pathological response after neoadjuvant chemoradiation in oesophageal cancer PO - 1205

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A. Secerov Ermenc (Slovenia), N. Dobnikar, I. Oblak, A. Jeromen Peressutti

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T. Ermongkonchai (Australia), R. Khor, V. Muralidharan, N. Tebbutt, K. Lim, N. Kutaiba, S.P. Ng

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SIB-SIP SBRT for locally advanced pancreatic cancer: clinical and dosimetric analysis. PO - 1209

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Is SBRT safe in carcinoma pancreas having duodenal infiltration? PO - 1210

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Intraluminal brachytherapy boost in esophageal cancer: A single institute retrospective analysis. PO - 1211

N. Bathija (India), H. Rathod, S. Kunikullaya, A. Parikh, M. Mehta, S. Patel, V. Shivhare, S. Rath, V. Modi, H. Jain, D. Anand, K. Ratanchandani

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N. SLIM (Italy), P. Pacifico, P. Passoni, R. Tummineri, M. Ronzoni, F. Pedica, C. Fiorino, A.M. Deli, A. Casadei Gardini, S. Cascinu, F. De Cobelli, L. Aldrighetti, N.G. Di Muzio

- Radiomics in the assessment of response after pancreatic SBRT: a pilot study** PO - 1213
C. De La Pinta (Spain), M. Muñoz, C. Picón, R. Fuentes, C. Guillén, D. Sevillano, M. Martín, I. Mayorga Ruiz, P. Moreno Ruiz, A. Jiménez Pastor, J.M. Molina Villar, S. Sancho García
- Toxicity profile of adjuvant hypofractionated Image-Guided Radiotherapy in biliary tract carcinoma** PO - 1214
N. Slim (Italy), P. Pacifico, P. Passoni, R. Tummineri, M. Ronzoni, F. Pedica, C. Fiorino, A.M. Deli, A. Casadei Gardini, S. Cascinu, F. De Cobelli, L. Aldrighetti, N.G. Di Muzio
- Indian experience of 100 HCC patients with portal vein thrombosis treated with robotic radiosurgery** PO - 1215
D. Dutta (India), S.K. Reddy, Y. Sreenija, H.M. Nair, A. Sasidharan, A. Gupte, R. Kannan, S.G. Pottayil, A. Edappattu, S. S
- Outcomes and prognostic factors in neoadjuvant chemoradiotherapy for resectable esophageal cancer** PO - 1216
R. Benlloch Rodríguez (Spain), A. Valcárcel Díaz, M. López Valcárcel, J. Romero Fernández, S. Córdoba Largo, J.L. Lucena de la Poza, M.D. Chaparro Cabezas, M. Hernández Miguel, B. Gil Haro, S. Santana Jiménez, O. Engel, J.F. Obeso Herrera, C. De La Fuente
- Clinical outcomes after stereotactic ablative radiotherapy in locally advanced cholangiocarcinoma** PO - 1217
A.U. Larsen (Denmark), E.S. Worm, E.M. Tabaksblat, M. Høyer, B. Weber, H.R. Mortensen
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- Utility of MRI-guided adaptive radiotherapy for pancreatic cancer: Baskent University experience** PO - 1219
G. Yavas (Turkey), C. Yavas, G. Arslan, E. Efe, C. Onal
- Prospective evaluation of Child Pugh score as a tool for assessment of acute toxicity in liver SBRT** PO - 1220
Y. Sreenija (India), S. K, H. Nair, A. Sasidharan, S.G. Pottayil, A. E H, S. Sadasivan, S. S, D. Dutta
- Proton beam radiotherapy in pancreatic cancer: a systematic review** PO - 1221
L. Cavallini (Italy), A. Arcelli, A. Guido, M. Buwenge, B. Rombi, F. Bertini, L. Strigari, S. Strolin, C. Bellarosa, C.M. Donati, S. Bisello, E. Scirocco, M. Ferioli, G. Macchia, D. Pezzulla, M. Amichetti, A.G. Morganti, S. Cammelli

- Robotic Stereotactic Radiosurgery for locally advanced pancreatic cancer-Local control and tolerance** PO - 1222
C. Silva (Portugal), M. Amorim, M.A. Costa, C. Fardilha, J. Gagean, J. Vale, R. Guedes, P. Genésio, P. Vieira, P. Costa
- Prognostic factors affecting survival in gastric cancer patients in Albania: A retrospective study** PO - 1223
F. Kraja (Albania), J. Dervishi, A. Hoti, E. Karaulli, I. Akshija, E. Hafizi, S. Ademi, E. Cuedari, H. Kolani, A. Dibra, E. Celiku, B. Kraja
- SBRT as a part of the multimodal management of intermediate and advanced hepatocellular carcinoma** PO - 1224
A.A. Mohamed (Germany), K. Gester, M. Eble
- Hypofractionated radiotherapy after induction chemotherapy for advanced pancreatic cancer** PO - 1225
P. Passoni (Italy), S. Broggi, N. Slim, B. Longobardi, M. Mori, U. Peretti, M. Macchini, G. Orsi, G. Balzano, R. Castoldi, M. Falconi, A. Del Vecchio, G.M. Cattaneo, C. Fiorino, S. Cascinu, M. Reni, N.G. Di Muzio
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- Impact of inflammation using blood parameters in HCC patients treated with SBRT** PO - 1227
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- Stereotactic-body-radiotherapy (SBRT) as radiaci treatment for pancreatic-neuroendocrine-tumors** PO - 1228
M. López González (Spain), E. De Vicente, H. Duran, S. Prados, O. Hernando-Requejo, E. Sánchez, Y. Quijano, R. Ciervide, B. Alvarez, M. Garcia-Aranda, X. Chen Zhao, R. Alonso, J. Valero, C. Rubio
- ALBI & IBI score could help in deciding for or against a radioablative therapy in patients with HCC.** PO - 1229
P. Hass (Germany), T.B. Brunner, A. Gawish, D. Ott
- 18F-FDG PET-CT as prognosis factor after neoadjuvant chemoradiotherapy in esophageal cancer** PO - 1230
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- Response to neoadjuvant RCT as a predictor for overall survival in therapy of esophageal cancer** PO - 1231
S. Kirste (Germany), F. Mohammad, M. Murnik, J. Höppner, A. Grosu, N. Nicolay

- Magnetic resonance-guided stereotactic body radiotherapy of liver tumors: Initial clinical experience and patient-reported outcomes** PO - 1232
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- Real world results of CTRT in Ca esophagus: Can SCOPE-1 results be replicated outside trial setting?** PO - 1233
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- Chemoradiation in unresectable non metastatic biliary cancers: an updated systematic review** PO - 1234
S. Bisello (Italy), S. Bisello, D. Vallerossa, A. Benini, V. Panni, F. Bertini, A. Galuppi, A. Guido, G. Macchia, F. Deodato, S. Cilla, V. Picardi, F. Romani, M. Buwenge, A.G. Morganti, S. Cammelli
- Feasibility and early clinical experience of online adaptive MR-guided radiotherapy of liver tumors** PO - 1235
P. Rogowski (Germany), R. von Bestenbostel, F. Walter, K. Straub, L. Nierer, G. Landry, M. Reiner, C. Kurz, C.J. Auernhammer, C. Belka, M. Niyazi, S. Corradini
- Stereotactic body radiotherapy in unresectable intrahepatic cholangio-carcinoma: a systematic review** PO - 1236
S. Bisello (Italy), F. Bertini, G. Tolento, M. Renzulli, F. Medici, A. Benini, D. Vallerossa, G. Macchia, F. Deodato, S. Cilla, F. Cellini, L. Strigari, A. Angelini, G. Brandi, S. Cammelli, A.G. Morganti, M. Buwenge
- Dose-escalated neoadjuvant chemoradiotherapy for oesophageal or oesophagogastric junction carcinoma** PO - 1237
V. Duque Santana (Spain), F. Lopez-Campos, M. Martin-Martin, L. Pelari Mici, A. Hernandez Corrales, M. Valero Perena, S. Sancho Garcia
- Volumetric modulated arc therapy is superior to intensity modulated radiotherapy for liver sparing in stereotactic body radiotherapy for hepatocellular carcinoma** PO - 1238
Y. Kundel (Israel), Y. Korzets, M. Weinstock-Sabbah, A. Moor, N. Gordon, D. Bragilovski, S. Stemmer, A. Popovtzer, B. Brenner, E. Fenig, A. Allen
- 99mTc-macroaggregated albumin SPECT/CT in HCC treated with Selective Internal Radiation Therapy** PO - 1239
E. Lodi Rizzini (Italy), V. Laghi, L. Cavallini, E. Deraco, D. Vallerossa, C. Scampoli, C. Bellarosa, S. Cammelli, S. Strolin, L. Strigari, R. Golfieri, S. Fanti, G.P. Frezza, A.G. Morganti, F. Monari
- Complete pathological response after high dose radiotherapy for locally advanced esophageal cancer.** PO - 1240
O. Hernando-Reguejo (Spain), M. Lopez, X. Chen, R. Alonso, E. Sanchez, A. Montero, R. Ciervide, B. Alvarez, J. Valero, M. Garcia, D. Zucca, J. Garcia, P. Garcia de Azilu, L. Alonso, M.A. De la Casa, A. Prado, J. Marti, P. Fernandez Leton, M. Nuñez, M. Izquierdo, K. Rossi, C. Cañadillas, C. Rubio

- Optimising splenic dose with PBT and VMAT for distal oesophageal cancer** PO - 1241
O. Nicholas (United Kingdom), A. Saplaouros, J. Lambert, G. Fegan, R. Hugtenburg, S. Gwynne
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- Digital Poster: Lower GI (colon, rectum, anus)**
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- Image-based deep learning model for predicting pathological response in rectal cancer using post-chemoradiotherapy magnetic resonance imaging** PO - 1242
J. Kim (Korea Republic of), B. Jang, C. Song, S.H. Jeon, S. Kang, Y.J. Lee
- Is there a role for perioperative radiotherapy in surgically resected stage IV rectal cancer?** PO - 1243
J. Kwon (Korea Republic of), J. Kim, B.H. Kim
- Severe surgical morbidity after chemoradiotherapy conformational-3D versus IMRT for rectal cancer** PO - 1244
M. Martin (France), N. Giraud, M. Capdepont, C. Sarrade, A. Viaouet, D. Smith, E. Terrebonne, N. Frulio, A. Rullier, Q. Denost, E. Rullier, V. Vendrely
- Intensity Modulated Radiotherapy versus 3D radiotherapy for rectal cancer: prospective phase 2 study** PO - 1245
O. Yariv (Israel), J. Kindler, M. Weinstock- Sabbah, R. Ben-Hur, O. Icht, D. Reinhorn, N. Arad, T. Shochat, Y. Kundel
- Prediction of response to neo-adjuvant chemoradiotherapy using radiomics in rectal cancer** PO - 1246
F. Lucia (France), A. Bordron, V. Bourbonne, E. Rio, B. Badic, O. Miranda, O. Pradier, M. Hatt, D. Visvikis, U. Schick
- Radiochemotherapy in anal cancer, what is the optimal dose? A single institutional experience** PO - 1247
N. Giannini (Italy), A. Gonnelli, G. Gadducci, S. Montrone, A. Sainato, B. Manfredi, F. Pasqualetti, C. Laliscia, G. Malfatti, E. Calistri, R. Morganti, F. Paiar
- Preoperative radiotherapy with Intensity-Modulated SIB for rectal cancer: a systematic review** PO - 1248
A. Surgo (Italy), R. Carbonara, F. Gregucci, M.P. Ciliberti, I. Bonaparte, A. fiorentino
- Lateral Pelvic Nodal Boost During Short Course Radiation Therapy for Locally Advanced Rectal Cancer** PO - 1249
C. Hassanzadeh (USA), F. Fallahian, G. Low, A. Roy, R. Chin, K. Pedersen, M. Mutch, S. Glasgow, L. Henke, S. Badiyan, H. Kim

- The utility of short-course radiotherapy (SCRT) for watch-and-wait strategy (w&w) in rectal cancer** PO - 1250
K. Paciorek (Poland)
- Upfront surgery vs. neoadjuvant chemoradiation in upper rectal cancers** PO - 1251
R. Engineer (India), J. Poddar, D. Pandey, A.L. Desouza, S. kumar, V. Ostwal, A. Ramaswamy, A. Saklani
- Chemoradiation for anal cancer: correlation of hematologic toxicity and dose to pelvic bone marrow.** PO - 1252
E. Ferrara (Italy), I. Luciani, M. Zannetti, F. Mastroleo, A. Brignoli, B. Mattio, L. Turri, L. Vigna, E. Mones, G. Loi, M. Krengli
- Influence of radiation treatment technique on outcome and toxicity in anal cancer.** PO - 1253
M.C. Fernandez Fernandez (Spain)
- Watch and wait strategy for rectal cancer : preliminary results** PO - 1254
V. Vendrely (France), M. Boubaddi, T. Cauvin, N. Frulio, Q. Denost, E. Rullier
- prospective study of safety and response in moderately hypofractionated chemoradiation rectal cancer** PO - 1255
D. G R (India), H. Nair, R. Madhavan, D. Dutta
- Local excision followed by radiotherapy or chemoradiotherapy for early stage rectal adenocarcinoma.** PO - 1256
S. Santana Jimenez (Spain), J. Romero Fernández, M. Hernández Miguel, A. Sánchez Movilla, I. Alonso Sebastián, R. Benlloch Rodríguez, S. Córdoba Largo, J.F. Obeso Herrera, A. Herreros de Tejada, J. Santiago García, M. López Valcarcel, B. Gil Haro, P. Sarrión Rubio de La Torre, L. Paisán Palacio
- A radiomic signature model to predict chemoradiation-induced change in CD8+ cells in rectal cancer** PO - 1257
Y.J. Lim (Korea Republic of), S.H. Jeon, E.K. Chie
- Pragmatic and effective use of short course radiotherapy for stage IV rectal cancer** PO - 1258
M. Higgins (Ireland)
- Increased SII and low Hb level are associated with poor OS in rectal cancer after preoperative CRT** PO - 1259
Y. Lin (Taiwan)

- Neutrophil and platelet-to-lymphocyte ratio as prognostic factors in locally advanced rectal cancer** PO - 1260
V. Duque Santana (Spain), F. Lopez-Campos, M. Martin-Martin, A. Hernandez Corrales, L. Pelari Mici, M. Valero Perena, S. Sancho Garcia
- Predictive model of 2yDFS during MR guided RT neoadjuvant chemoradiotherapy in LARC patients** PO - 1261
G. Chiloiro (Italy), F. Preziosi, L. Boldrini, D. Cusumano, A. Romano, L. Placidi, J. Lenkiewicz, N. Dinapoli, M.A. Gambacorta, V. Valentini
- Outcomes in locally recurrent rectal cancer treated with reirradiation stereotactic ablative radiotherapy (SABR)** PO - 1262
R. Muirhead (United Kingdom), K. Aitken, J. Holmes, M. Harrison, D. Harji, S. O'Cathail, C. Taylor, M. Wing
- Exclusive radiotherapy in early stage anal cancer - outcomes, patterns and predictors of relapse** PO - 1263
A. Briens (France), C. Neuzillet, F. Huguet, E. Rivin Del Campo, V. Guimas, E. Fallet, S. Garcia Molina, E. François, L. Montagne, U. Schick, P. Lesueur, L. Siphroudis, J. Edeline, J. Castelli, R. de Crevoisier, A. Lièvre, K. Gnep
- Predictive factors of pathological response to neoadjuvant chemoradiotherapy in rectal cancer** PO - 1264
P. trecca (Italy), M. Fiore, L.E. Trodella, G. Petrianni, G. D'Ercole, M. Caricato, R. Coppola, S. Ramella
- Neoadjuvant rectal and Clavien-Dindo scores in Locally Advanced Rectal Cancer** PO - 1265
M. Montero Feijoo (Spain), S. Qian Zhang, J.J. Barambio Buendía, J.L. Dominguez Tristancho, J. Vara Santos, J. Luna Tirado, L. Guzmán Gómez, A. Alayon Afonso, A. Nieto Rivero, M.A. García Castejón, A.M. Martinez Felipe, I. Azinovic
- Induction chemotherapy in bulky HPV-negative anal canal cancer** PO - 1266
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- Using decision tree methodology to predict overall survival in locally advanced rectal cancer** PO - 1267
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S. Lindberg (Sweden)
- C-Reactive Protein as predictive factor for response to chemoradiotherapy in Rectal Cancer** PO - 1269
F.A. Lima Aires (Portugal), E.D. Rodrigues Pinto, M. Reis Lima Marques, M.G. Pinto

Neoadjuvant short-course hyperfractionated accelerated radiotherapy for rectal cancer PO - 1270

H. Doi (Japan), H. Yokoyama, M. Fujiwara, S. Harui, A. Kakuno, H. Yanagi, Y. Hishikawa, N. Yamanaka, N. Kamikonya

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C. Kronborg (Denmark), H.S. Rønde, J.F. Kallehaug, M.G. Guren, K.G. Spindler

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L. Deantonio (Switzerland), G. Borgonovo, A. Richetti, M.C. Valli

Title: Impact of HPV infection in anal carcinoma patients treated with definitive chemo-radiation PO - 1273

G. Veillon Contreras, I.D. Perrot Rosenberg (Chile), J.A. Solis Campos, B. Tudela Staub, G. Lazcano Alvarez, J. Olivares Gonzalez

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M. Robinson (United Kingdom), S. O’Cathail, A. Duffton, K. Aitken, R. Muirhead

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M. Robinson (United Kingdom), R. Muirhead, K. Chu, C. Jacobs, S. Ng, M. Hawkins

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S. Gerum (Austria), W. Iglseder, R. Schmid, K. Peterka, T. Knocke Abulesz, P. Harl, S. Schwaiger, I. Reiter, J. Sallinger, C. Venhoda, G. Kurzweil, M. Poetscher, R. Jäger, B. Celedin, P. Clemens, F. Sedlmayer, F. Roeder

Track: Clinical

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G. Yavas (Turkey), C. Yavas, G. Inan, M. Duzova, O.V. Gul, H. Basaran

- 68Gy EQD2 constraint for G2-vaginal shortening in post-operative endometrium. preliminary results** PO - 1279
A. Rovirosa (Spain), Y. Zhang, G. Gomez, C. Ascaso, A. Herreros, B. Fornes, J. Rochera, J. Mases, A. Biete, A. Torné
- Albumin-to-alkaline phosphatase ratio is not a predictor of survival in cervical cancer patients** PO - 1280
C. Onal (Turkey), M. Gultekin, G. Yavas, E. Oymak, S. Yuce Sari, O.C. Guler, E. Yigit, F. Yildiz
- The prognostic significance of the albumin and globulin levels in cervical cancer patients** PO - 1281
C. Onal (Turkey), E. Oymak, O.C. Guler
- Single Institution Outcomes for CT Guided Brachytherapy for Cervical Cancer** PO - 1282
M.T. Elahi (United Kingdom), J. Morgan, A. Stillie, M. Zahra
- Does Radiotherapy planning factors impact para-aortic recurrence in IIC1 cervical cancer patients?** PO - 1283
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- MR-guided radiotherapy of gynecologic cancer – preliminary outcome data from a small cohort study** PO - 1284
A. Ør Knudsen (Denmark), G. Nyvang, P. Krause Møller, U. Bernchou, A. Smedegaard Bertelsen, T. Schytte
- Postoperative high dose rate brachytherapy in endometrial cancer: three versus six fractions.** PO - 1285
L. Cardoso (Spain), L. Gómez, P. Alonso, S. Pena, M. Herrera, P. Valencia, A. Casado, M. Martín, I. Solis, M. Iglesias, D. Rodríguez, M.D.C. Salas, M.L. Del Valle, Á. Del Castillo, J.F. Gutiérrez, M. Sánchez, P. Diezhandino
- Prognostic factors for non-endometrioid carcinoma** PO - 1286
J.A. Domínguez Rullán (Spain), T. Muñoz Miguelañez, M. Martín Sánchez, S. Sancho García
- Target Deformation and Intrafraction Motion Errors in LRCTV for MR-guided Cervix Cancer Radiotherapy** PO - 1287
I.Z. Tan (United Kingdom), B. Tocco, S. Court, D.C.S. Tang, D. McQuaid, I. White, S. Lalondrelle
- Sequential external beam RT boost with two simultaneous dose levels in advanced cervical cancer** PO - 1288
C. Mariucci (Italy), L. Vicenzi, S. Costantini, C. Di Carlo, F. Cucciarelli, M. Valenti, G. Mantello

- Comparison of MRI Assessment and Clinical Evaluation of Disease Extent in Carcinoma Cervix Patients** PO - 1289
S. Pradhan (India), R. Ranjan, A. Verma, T.B. Singh, L.M. Aggarwal, R. Singh
- Effect of radiotherapy in addition to surgery in early stage endometrial cancer** PO - 1290
D. Medenwald (Germany), L. Susan, C. Gottschick, V. Dirk
- Can we safely lower the RT dose with the use of high dose PF for advanced cervical cancer?** PO - 1291
M. Kawamura (Japan), R. Nakahara, S. Ishihara, Y. Oie, Y. Takase, M. Okumura, J. Ito, T. Ono, Y. Itoh, S. Naganawa
- Results of two interventional radiotherapy (brachytherapy) schedules for endometrial cancer** PO - 1292
V. Lancellotta (Italy), G. Macchia, A. Salvati, L. Di Maio, E. Placidi, P. Cornacchione, R. Autorino, M. Campitelli, B. Fionda, A. Nardangeli, C. Casà, M. Ferioli, N. Di Napoli, G. Scambia, L. Tagliaferri
- Dosimetric predictors of brachytherapy in cervical cancer: an experience from a developing country** PO - 1293
E. MANEA (Romania), A. Munteanu, A. Constantin, A.D. Zara, I. Butuc, M. Oprisan, L. Miron
- Timing to assess the clinical response after chemoradiotherapy in locally advanced cervical cancer** PO - 1294
R. AUTORINO (Italy), V. Lancellotta, M. Campitelli, A. Nardangeli, M.G. Ferrandina, N. Bizzarri, B. Gui, L. Russo, M. Ferioli, L. Tagliaferri, G. Macchia, M.A. Gambacorta
- Stereotactic ablative body radiotherapy boost for cervical cancer when brachytherapy is not feasible** PO - 1295
T.H. Lee (Korea Republic of), I.A. Kim, J. Kim, C. Song, Y.B. Kim, K. Kim, J.H. No, D.H. Suh, J. Chung, K. Eom
- Usage of PET/CT as a post-treatment surveillance strategy in locoregionally advanced cervical cancer** PO - 1296
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- Parameters predicting intestinal toxicity in cervical cancer patients with adjuvant radiotherapy** PO - 1298
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P. Sawant (India), L. Gurrarn, J. Mathew, M. J, S. Chopra, D. A, Y. Ghadi, J. Ghosh, S. Gupta, S. Gulia, S. TS, A. Maheshwari, U. Mahantshetty
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G. Mandurino (Italy), A. Fodor, S.L. Villa, S. Baroni, A. Sanchez Galvan, R. Tummineri, P. Pacifico, F. Zerbetto, C.L. Deantoni, P. Mangili, A. Del Vecchio, S. Arcangeli, N.G. Di Muzio
- The role of 18F-FDG PET/CT and pelvic mri after concurrent chemo-radiotherapy** PO - 1301
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- Intraoperative electron radiation after salvage surgery in gynecological cancers and sarcomas** PO - 1302
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Y. Mukai (Japan)
- apatinib plus capecitabine in patients of recurrent/metastatic and persistent cervical cancer** PO - 1306
J. Li (China), W. Mao, F. Li, L. Ran, J. Chang, F. Mei, L. Hu, Y. Du, X. Tian, L. Shan, M. Liu, Y. Chen, J. Mu, Y. Qin, S. Yin, N. Liang
- Extended nodal radiotherapy for relapsed gynecologic tumors with PET/CT-guided SIB** PO - 1307
S.L. Villa (Italy), A. Fodor, R. Tummineri, F. Zerbetto, C.L. Deantoni, S. Baroni, A. Sanchez Galvan, G. Mandurina, P. Pacifico, P. Mangili, A. Del Vecchio, S. Arcangeli, N.G. Di Muzio
- Image-guided helical/volumetric IMRT in vulvar cancer: results of a mono-institutional experience** PO - 1308
R. Tummineri (Italy), A. Fodor, F. Zerbetto, A. Sanchez Galvan, S.L. Villa, S. Baroni, G. Mandurino, P. Pacifico, C. Deantoni, P. Mangili, A. Del Vecchio, N.G. Di Muzio

- IMRT in vulvar cancer: dismal outcomes from a retrospective single-center analysis.** PO - 1309
M. Ferioli (Italy), A.M. Perrone, A. Galuppi, L. Strigari, F. Romani, M. Buwenge, A. Arcelli, D. Vallerossa, S. Bisello, M. Boriani, G. Macchia, F. Deodato, S. Cilla, D. Pezzulla, V. Panni, P. De Iaco, A.G. Morganti, S. Cammelli
- Salvage (re)radiation in oligo-recurrent and oligo-metastatic cervical cancer** PO - 1310
S. Chopra (India), B. Kalra, J. Mulani, J. Swamidas, J. Jain, L. Gurram, J. Ghosh, S. Rath, S. Gulia, P. Mittal, U. Mahantshetty, S. Gupta
- MR-guided SBRT boost for patients with recurrent gynecological cancers ineligible for brachytherapy** PO - 1311
I. Hadi (Germany), R. von Bestenbostel, S. Schönecker, K. Straub, L. Nierer, R. Bodensohn, M. Reiner, G. Landry, C. Belka, M. Niyazi, S. Corradini
- Quality of life in locally advanced cervical cancer: brachytherapy vs surgery after chemoradiation.** PO - 1312
M. Ferioli (Italy), A. Galuppi, M. Buwenge, A.M. Perrone, F. Deodato, A. Re, S. Cilla, E. Deraco, E. Galletta, N. Razganiyeva, M. Boriani, S. Cammelli, P. De Iaco, A.G. Morganti, G. Macchia
- Evaluation of CBCT-based auto-segmentation for online adaptive radiotherapy in cervical cancer** PO - 1313
C. Shelley (United Kingdom), M. Bolt, R. Hollingdale, C. South, E. Adams, A. Stewart
- Magnetic Resonance guided radiotherapy (MRgRT) in Gynaecological cancer: targets and gains** PO - 1314
M. Ingle (United Kingdom), I. White, J. Chick, J. Mohajer, A. Dunlop, H. McNair, T. Herbert, H. Barnes, G. Smith, S. Lalondrelle
- Treatment toxicities of cervical cancer with or without HIV infection in Botswana 2013-2020** PO - 1315
S. Tuli (USA), J. George, B. Monare, M. Bvochora-Nsingo, K. Lichter, S. Chiyapo, D. Balang, L. Bazzett-Matabele, S. Shin, N. Zetola, S. Grover
- Track: Clinical
- Digital Poster: Prostate**
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- Stereotactic radiotherapy in recurrent prostate cancer after postoperative or definitive irradiation** PO - 1316
G. Francolini (Italy), M. Loi, V. Di Cataldo, B. Detti, G. Stocchi, A.G. Allegra, C. Bellini, M. Aquilano, L.P. Ciccone, M. Mariotti, V. Salvestrini, E. Scoccimarro, M. Valzano, G. Simontacchi, P. Bonomo, S. Lucidi, I. Desideri, I. Meattini, L. Livi

- Prostate Cancer Patient Reported Outcome After Cyberknife Robotic Radiosurgery** PO - 1317
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- salvage treatment outcomes in lymph node-positive prostate cancer patients after surgery** PO - 1318
D. Kim (Korea Republic of), J. Kim, S.K. Hong, S. Byun, S.E. Lee
- Early Health Economic Analysis of 1.5T MRI-guided Radiotherapy for Localized Prostate Cancer** PO - 1319
C. Hehakaya (The Netherlands), J.R. van der Voort van Zyp, B.G. Vanneste, J.P. Grutters, D.E. Grobbee, H.M. Verkooijen, G.W. Frederix
- Infectious Risk After Prostatic Transrectal Fiducial Marker Implantation in Radiation Therapy** PO - 1320
T. Reynaud (Canada), I. Ben Aicha, D. Carignan, C. Pelchat, C. Fiset, W. Foster, A. Martin, E. Vigneault
- A Simple Method to Visualize and to Spare the Ureters During SBRT for Oligo Metastatic Patients** PO - 1321
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- Clinical outcome of MRI based high-dose-rate brachytherapy for prostate cancer** PO - 1322
S. Buus (Denmark), H.A.S. Hansen, S. Rylander, S.B. Hokland, K. Tanderup, L.N. Bentzen
- Low toxicity in LDR brachytherapy boost with real time intraoperative planning in prostate cancer** PO - 1323
M. Barrado (Spain), E. Villafranca Iturre, A. Sola Galarza, I. Visus Fernández de Manzano, P. Navarrete Solano, N. Fuentemilla Urio, S. Pellejero Pellejero, A. Galbete Jiménez, M.A. Rodríguez Mendizabal, L.O. Rosas Gutierrez, A. Barco Gómez, E.G. Martínez López
- Dose-volume correlation of pelvic bone normal tissue and hematocrit in patients with prostate cancer** PO - 1324
P. Papanikolaou (USA), G. Swanson, S. Stathakis, M. Fakhreddine, P. Mavroidis
- Factors that influence urinary incontinence correction results after prostatectomy and radiotherapy** PO - 1325
N.A. Linares Mesa (Spain), M. Ruza Sarrasín, Y. Ramírez Castilla, J.M. Rico Pérez, M.F. Lorenzo Gómez
- Dosimetric and clinical impact of rectal spacers in patients undergoing VMAT-IGRT in prostate cancer** PO - 1326
E. O'Neill (Ireland), M. Samuji, P.J. Kelly

- Prostate cancer radiotherapy in a COVID-19 pandemic year: experience of a Chilean public hospital** PO - 1327
H. Letelier (Chile), C. Herrera Bovet
- VMAT-SIB boost to the dominant intraprostatic lesion: preliminary results of a dose escalation trial** PO - 1328
P. Bonome (Italy), G. Macchia, M. Ferro, S. Cilla, C. Romano, A. Re, V. Picardi, M. Boccardi, D. Pezzulla, S. Cammelli, M. Buwenge, L. Tagliaferri, A.G. Morganti, A. Morganti, V. Valentini, F. Deodato
- Longterm Biochemical Recurrence-Free Survival after PSMA-PET/CT-Based Salvage Radiotherapy** PO - 1329
S. Adebahr (Germany), C. Zamboglou, J. Ruf, C. Gratzke, S. Kirste, S. Spohn, C. Stief, P. Bartenstein, C. Belka, M. Li, C. Trapp, P. Rogowski, A. Grosu, A. Grosu, N. Schmidt-Hegemann
- Radiotherapy toxicity in prostate cancer patients with bilateral hip prostheses** PO - 1330
A. Fischer (United Kingdom), P. Hoskin
- SBRT prostate cancer boost of 9 Gy, prospective phase II trial.** PO - 1331
F. Ferrer Gonzalez (Spain), A. Pont, R. De Blas, A. Boladeras, O. Garin, N. Garcia Expósito, M. Stefanovic, M. Garcia Marqueta, M. Juarez, M. Olivas, L. Armijos, M. Alonso Becerra, A. Alvarez, A. Slocker, M. Ventura, M. Castells, E. Merino, F. Suarez, C. Gutiérrez, J. Delgado, E. Zardoya, D. Najjari, C. Picon, M. Ferrer, F. Guedea
- OLI-P trial: pattern of progression after radiotherapy in PSMA-PET positive METs of prostate cancer** PO - 1332
T. Hölscher (Germany), M. Baumann, J. Kotzerke, M. Wirth, C. Thomas, D. Zips, S. Löck, M. Krause, F. Lohaus
- Efficacy of stereotactic radiation therapy for the treatment of nodal oligorecurrent prostate cancer** PO - 1333
S. Cozzi (Italy), L. Bardoscia, D.S. Solla, G. Timon, A. Botti, B. Gladys, F. Vigo, P. Ciammella, C. Iotti
- Early Salvage Radiotherapy In the post RADICALS-RT Era: The Gap From Trials to Reality** PO - 1334
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- PSMA-PET impact on post-prostatectomy recurrences multidisciplinary management: focus on RT** PO - 1335
V. Chiofalo (Italy), G.C. Iorio, I. Bonavero, R. Parise, R. Carlevato, S. Bartoncini, V. Richetto, F. Ceci, S. Grimaldi, S. Dall'Armellina, D. Deandreis, B. Lillaz, M. Oderda, P. Gontero, A. Guarneri, U. Ricardi

- Salvage HDR brachytherapy for localised recurrent prostate cancer after primary irradiation** PO - 1336
M. Stankiewicz (Poland), P. Wojcieszek, P. Lelek, T. Krzysztofiak, S. Kellas-Slecza
- Long follow up of late toxicity after hypofractionated postoperative radiation in prostate cancer** PO - 1337
J. Valero (Spain), M. Izquierdo Merchán, Á. Montero Luis, O. Hernando Requejo, X. Chen, E. Sanchez Saugar, B. Álvarez Rodríguez, M. Núñez Báez, R. Ciérvide Jurio, M.D.L.O. García-Aranda Pez, M. López González, P. Fernández Letón, J. Martí Asenjo, A. Prado Barragán, R.M. Alonso, K.D. Rossi Coronado, C. Rubio Rodríguez
- Does frailty influence treatment intent in men with non-metastatic prostate cancer?** PO - 1338
K. Connors (United Kingdom), A. Vickers, R. Conroy, C. Coyle, A. Hudson, J. Logue, M. Serra, A. Tran, H. Mistry, J. Wylie, A. Choudhury, Y.P. Song
- Estimated late toxicities with pelvic nodal irradiation in prostate cancer: Protons vs Tomotherapy** PO - 1339
S. Sundar (India), S. Chilukuri, K. Patro, M. Sawant, R. S. M. Arjunan, D. Sharma, R. Jalali
- Prostate cancer reirradiation with stereotactic V-MAT IGRT : interim analysis of a phase II trial.** PO - 1340
A. Di Marzo (Italy), F. Trippa, P. Anselmo, L. Draghini, F. Arcidiacono, S. Terenzi, M. Italiani, M. Muti, M. Casale, S. Fabiani, E. Maranzano
- SBRT for Japanese patients with prostate cancer: prediction of acute genitourinary toxicities** PO - 1341
M. Ito (Japan), Y. Takase, J. Suzuki, T. Matsunaga, H. Takahashi, A. Takeuchi, S. Adachi, S. Abe, Y. Oshima, K. Ohtakara, Y. Yoshioka, K. Suzuki, T. Okuda
- Trends and predictors of worsening at RT end of anxiety and depression during RT for prostate cancer** PO - 1342
D. Cante (Italy), B. Avuzzi, J.M. Waskiewicz, A. Faiella, E. Villa, L. Ferella, E. Garibaldi, A. Magli, B. Noris Chiorda, G. Girelli, E. Olivetta, C. Piva, M. Gatti, P. Ferrari, E. Moretti, G. Sanguineti, V. Vavassori, F. Munoz, T. Rancati, F. Badenchini, A. Bresolin, R. Valdagni, N. Di Muzio, C. Fiorino, C. Cozzarini
- Dose-escalated stereotactic radiotherapy for prostate cancer: A feasibility study using a rectal spacer and urethral sparing** PO - 1343
R. Lewin (Israel), I. Bar-Orian, N. Honig, L. Tsvang, M. Ben-Ayun, I. Weiss, Z. Symon
- Preliminary results of Phase II trial on Carbon-ion boost followed by IMRT for high risk PCa** PO - 1344
F. Patti (Italy), G. Marvaso, M. Pepa, B. Vischioni, M. Zaffaroni, S. Comi, D. Zerini, M. Augugliaro, S. Russo, F. Valvo, T. Giandini, B. Avuzzi, R. Valdagni, O. De Cobelli, F. Cattani, E. Orlandi, B.A. Jereczek-Fossa, R. Orecchia

- Symptoms affecting Emotional, Systemic and Social Domains 2 years after RT for prostate cancer** PO - 1345
E. Garibaldi (Italy), A. Faiella, E. Villa, A. Magli, D. Cante, B. Avuzzi, J.M. Waskiewicz, L. Ferella, B. Noris Chiorda, G. Girelli, A. Pastorino, C. Piva, M. Gatti, P. Ferrari, A. Maggio, E. Olivetta, G. Sanguineti, V. Vavassori, F. Munoz, T. Rancati, F. Badenchini, A. Bresolin, R. Valdagni, N. Di Muzio, C. Fiorino, C. Cozzarini
- Systematic Review of Salvage Reirradiation Options for Locally Recurrent Prostate Cancer** PO - 1346
J. Zhong (United Kingdom), F. Slevin, A. Scarsbrook, M. Serra, A. Choudhury, P. Hoskin, S. Brown, A. Henry
- Prostate cancer RT pattern of practice in Italy between 2004-2011: an analysis by the AIRO database** PO - 1347
A. Bruni (Italy), E. Mazzeo, L. Triggiani, L. Frassinelli, A. Guarneri, S. Bartoncini, P. Antognoni, S. Gottardo, D. Greco, S. Borghesi, S. Nanni, G. Ingrosso, R.M. D'Angelillo, B. Detti, G. Francolini, A. Magli, A. Guerini, S. Arcangeli, L. Spiazzi, U. Ricardi, F. Lohr, S.M. Magrini
- Urethral sparing increases the therapeutic ratio in dose escalated hypofractionated radiotherapy** PO - 1348
S. Spohn (Germany), I. Sachpazidis, R. Wiehle, B. Thomann, A. Sigle, P. Bronsert, J. Ruf, M. Benndorf, N. Nicolay, T. Sprave, A. Grosu, D. Baltas, C. Zamboglou
- Separation and rectal dosimetry with a pre-rectal spacer inserted during prostate HDR brachytherapy** PO - 1349
R. Davda (United Kingdom), D. Sandys, W. Kinnaird, M. Boutros, D. Heffernan Ho, D. Pendse, A. Mitra, C. Allen, H. Payne
- SBRT for localized prostate cancer: there is still a role for androgen deprivation therapy?** PO - 1350
M.L. Bonù (Italy), A. Magli, F. Tonetto, E. Moretti, G. De Giorgi, L. Spiazzi, M. Trovò, D. Tomasini, S.M. Magrini, L. Triggiani
- Patterns of local relapse following tumor-targeted dose escalation for localized prostate cancer** PO - 1351
J. Padayachee (Canada), N. Sanmamed, J. Lee, Z. Liu, A. Berlin, T. Craig, B. Lao, A. Rink, A. Bayley, C. Catton, A. Sundaramurthy, W. Foltz, A. McPartlin, S. Ghai, E. Atenafu, M. Gospodarowicz, P. Warde, J. Helou, S. Raman, C. Ménard, P. Chung
- Rectal spacing hydrogel - significant improvements in LDR prostate brachytherapy dosimetry** PO - 1352
S. Mehta (United Kingdom), S. Khaksar, C. Perna, S. Otter, C. Mikropoulos, M. Cunningham, S. Uribe-Lewis, J. Uribe, S. Langley
- Postoperative hypofractionated RT for prostate adenocarcinoma: results from a large series** PO - 1353
L. Nicosia (Italy), C. Vitale, F. Cuccia, V. Figlia, N. Giaj-Levra, R. Mazzola, F. Ricchetti, M. Rigo, R. Ruggieri, S. Cavalleri, F. Alongi

- Time Dependence of PSADT prognostic threshold in men treated with post-prostatectomy salvage RT** PO - 1354
C. Cozzarini (Italy), A. Magli, D. Cante, L. Andreoli, A. Pastorino, A. Faiella, A. Fodor, C. Deantoni, F. Zerbetto, F. Tonetto, B. Noris Chiorda, C. Piva, E. Olivetta, B. Avuzzi, G. Gandaglia, N. Fossati, C. Fiorino, G. Sanguineti, R. Valdagni, A. Briganti, F. Montorsi, N. Di Muzio
- Finding safe dose-volume constraints for re-irradiation of intraprostatic prostate cancer relapse.** PO - 1355
M. Augugliaro (Italy), M. Pepa, D. Zerini, G. Marvaso, R. Cambria, V. Bagnardi, S. Frassoni, F. Pansini, D.P. Rojas, F. Colombo, C.I. Fodor, F. Cattani, B.A. Jerezek-Fossa
- Dose constraints validation in moderate hypofractionation in localized prostate cancer** PO - 1356
X. Maldonado (Spain), M. Altabas, J. Garre, M. Vazquez, S. Magriña, A. Delgado, N. Docampo, A. Geng, M. Hermida, D. Sanchez-Artuño, J. Giralt
- LDR-Brachytherapy vs SBRT: PSA kinetics and toxicity outcomes in localized prostate carcinoma** PO - 1357
M. Cerrolaza (Spain), A. Mendez, M.D.M. Puertas, C. García, S. Flamarique, C. Escuin, V. Navarro, A. Lanuza, D. Villa, B. Garcia, M. Tejedor
- Does brachytherapy boost improve biochemical control in intermediate and high-risk prostate cancer?** PO - 1358
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G. Marvaso (Italy), F.A. Mistretta, I. Sabatini, S. Luzzago, M. Catellani, E. Di Trapani, G. Cozzi, R. Bianchi, G. Cordima, M. Ferro, D. Bottero, D.V. Matei, G. Musi, B.A. Jerezek-Fossa, O. De Cobelli
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N. Fourati (Tunisia), W. Mnejja, M. Frikha, F. Dhouib, M. Kallel, W. Siala, J. Daoud
- Patterns of care for intermediate-risk prostate cancer – results from an online survey** PO - 1361
V. Mareco (Portugal), M.C.D. Silva, A.N. Abrunhosa-Branquinho, J. Pisco, S. Saraiva, M.F.D. Pina
- The prognostic value of PI-RADS score in ultra-hypofractionated radiotherapy for prostate cancer.** PO - 1362
M. Miszczyk (Poland), Ł. Magrowski, J. Rembak-Szynkiewicz, P. Rajwa, A. Namysł-Kaletka, A. Paradysz, A. Napieralska, G. Woźniak, G. Głowacki, M. Stąpór-Fudzińska, L. Miszczyk

- Prediction of urinary toxicity after prostate cancer RT: long term evaluation** PO - 1363
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A. Pepin (USA), S. Shah, M. Pernia, S. Lei, M. Ayoob, M. Danner, T. Yung, B. Collins, S. Suy, N. Aghdam, S. Collins
- Real time dynamic LDR Brachytherapy boost to external beam radiotherapy in prostate cancer** PO - 1365
S. Forner (United Kingdom), E. Xing, S. Ravindra, A. D'Souza, F. Leach, S. Nagpal, T. Guerrero Urbano, V. Mullassery, O. Elhage, R. Popert, S. Morris
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G. Francolini (Italy), C. Bellini, V. Di Cataldo, B. Detti, A. Bruni, G. Alicino, L. Triggiani, S. La Mattina, R.M. D'Angelillo, C. Demofonti, R. Mazzola, F. Cuccia, F. Alongi, M. Aquilano, A.G. Allegra, L.P. Ciccone, G. Stocchi, V. Salvestrini, B. Guerrieri, L. Livi
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M.D.C. Salas Buzon (Spain), C. Muñoz Higuera, R. Rodríguez Sánchez, S. Sayago Gil, J. Alcantara Muñoz
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W. Majewski (Poland), D. Lange, A. Stanek-Widera, B. Itrych, T. Krzysztofciak, M. Jarzab, M. Oczko-Wojciechowska, R. Tarnawski
- HDR Brachytherapy Monotherapy in patients with Low/Intermediate-risk Prostate Cancer** PO - 1369
E. Moreno Olmedo (Spain), G. Nagore, V. Suárez Gironzini, C. Minguez, E. Gómez, A. Garcia, V. Ciapa, I. Marrone, E. López
- Updated prospective study of MR-guided focal salvage HDR brachytherapy for recurrent prostate cancer** PO - 1370
H. Chung (Canada), M. Corkum, A. Loblaw, C. Tseng, J. Murgic, A. Ravi, M. Davidson, M. Wronski, M. Haider, G. Morton
- SALVAGE-EXTERNAL BEAM RADIOTHERAPY (S-EBRT) FOR RECURRENT PROSTATE CANCER AFTER LDR-BRACHYOTHERAPY** PO - 1371
O. Muñoz Muñoz (Spain), B.D. DELGADO LEON, P. CABRERA ROLDAN
- First institutional analysis between ultra vs moderate hypofractionated regimens in prostate cancer** PO - 1372
G. Ferraris (Argentina), P. Andrada, A. Gomez Palacios, L. Alvarado, F. Eduardo, L. Causa, F. Diego, D.V. Maria Fernanda

- Targeted biopsies are redundant in mp-MRI and PSMA-PET proven radiorecurrent prostate cancer** PO - 1373
M. Peters (The Netherlands), M. van Son, M. Rasing, J. Lagendijk, M. Moerland, S. van de Pol, W. Eppinga, T. Jonges, F. Wessels, B. de Keizer, J. Noteboom, J. van der Voort van Zyp
- MR-guided SBRT for localized prostate cancer: the first results from the MOMENTUM study** PO - 1374
F. Teunissen (The Netherlands), T. Willigenburg, A. Tree, W. Hall, S. Choi, A. Choudhury, J. Christodouleas, J. de Boer, E. de Groot-van Breugel, L. Kerkmeijer, F. Pos, D. Vesprini, H. Verkooijen, J. van der Voort van Zyp
- Feasibility of neurovascular sparing MR-guided adaptive radiotherapy for prostate cancer** PO - 1375
F. Teunissen (The Netherlands), R. Wortel, J. Hes, T. Willigenburg, J. de Boer, R. Meijer, H. van Melick, H. Verkooijen, J. van der Voort van Zyp
- Preliminary mono-institutional report of prostate/prostate bed SBRT re-irradiation** PO - 1376
F. Cuccia (Italy), L. Nicosia, R. Mazzola, V. Figlia, N. Giaj-Levra, F. Ricchetti, M. Rigo, C. Vitale, G. Attinà, E. Pastorello, S. Corradini, R. Ruggieri, F. Alongi
- Dosimetric study of scanning method for prostate cancer patients in comparison with wobblers and VMAT** PO - 1377
M. Takaqi (Japan), Y. Hasegawa, K. Tateoka, Y. Takada, M. Hareyama
- Metastasis-directed therapy for oligorecurrent prostate cancer: a pooled analysis** PO - 1378
P. Ost (Belgium), A. Berlin, S. Siva, D. Reynders, R. Phillips, R. Glicksman, F. Faroudi, V. Fonteyne, M. Deek, P. Chung, D. Murphy, P. Tran
- Patient- vs. physician reported morbidity following radiotherapy of high-risk prostate cancer** PO - 1379
S.E. Petersen (Denmark), S. Hansen, P.M. Petersen, H. Lindberg, M. Moe, J.B. Petersen, L.P. Muren, M. Høyer, L. Bentzen
- Adjuvant radiotherapy of prostate cancer: a risk stratification system based on prognostic factors** PO - 1380
S. Bisello (Italy), A. Arcelli, F. Deodato, N. Dominsky, G. Tarantino, M. Ntreta, S. Cilla, G. Siepe, L. Cavallini, D. Pezzulla, A.R. Alitto, A. Re, S. Cammelli, A. Cortesi, A. Romeo, G.P. Frezza, A.G. Morganti, G. Macchia, M. Buwenge
- Toxicity outcomes of salvage versus adjuvant radiotherapy for prostate cancer using VMAT and IMRT** PO - 1381
D. Fasciolo (Italy), D. Fasciolo, C. Rosa, M. Marchione, M. Borgia, M. Lucarelli, A. Vinciguerra, A. Augurio, L. Caravatta, D. Genovesi

- A systematic review regarding outcomes and toxicities of re-irradiation for prostate cancer** PO - 1382
C. Rosa (Italy), F. Munoz, F. Fiorica, L. Caravatta, L. Ferella, L. Boldrini, B. Fionda, A.R. Alitto, A. Nardangeli, F. Dionisi, A. Pontoriero, S. Arcangeli, A. Di Marzo, V. Donato, M. Massaccesi
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A. Montero (Spain), O. Hernando, V. Cañon, D. Guevara, J. Valero, X. Chen-Zhao, P. Garcia, E. Sanchez, D. Zucca, M. Lopez, R. Ciervide, M. Garcia-Aranda, J. Garcia, M. de la Casa, B. Alvarez, R. Alonso, M. Nuñez, M. Izquierdo, K. Rossi, C. Cañadillas, P. Fernandez-Leton, C. Rubio
- Salvage radiotherapy for locally recurrent prostate cancer after high-intensity focused ultrasound** PO - 1384
N. Jullian (Belgium), R. Diamand, A. Mattlet, S. Poeta, K. Limani, A. Peltier, D. Van Gestel, F. Otte
- PSA bounce and biochemical failure analysis in low dose rate iodine-125 prostate brachytherapy boost** PO - 1385
N. Bultó Boqué (Spain), A. Goñi Ramírez, B. de Paula Carranza, E.M. Sáenz de Urturi Albisu, M. Pagola Divasson, D.I. Ortiz de Urbina Ugarte, J. Rosa Nieto, A. Ayete Andreu, M. Erzilbengoa Izaguirre, V. Pastor Sanchís, A. Bartrés Salido, N. Suárez Álvarez
- Treatment compliance to linac-based prostate SBRT using real-time electromagnetic tracking** PO - 1386
R. Lucchini (Italy), D. Panizza, V. Vernier, S. Trivellato, S. Arcangeli
- Diffusion MRI as an early response marker in management of high-risk non-metastatic prostate cancer** PO - 1387
M. Stancliffe (United Kingdom), R. Davda, H. Payne, A. Mitra, U. McGovern, D. Pendse
- 1.5 T MR-guided SBRT for oligorecurrent prostate cancer: preliminary report of feasibility and PROMs** PO - 1388
F. Cuccia (Italy), R. Mazzola, V. Figlia, M. Rigo, L. Nicosia, N. Gaj-Levra, F. Ricchetti, C. Vitale, G. Attinà, E. Pastorello, G. Di Paola, A. De Simone, D. Gurrera, S. Naccarato, G. Sicignano, R. Ruggieri, F. Alongi
- Interrater agreement in contouring the neurovascular bundle and internal pudendal artery for MRgRT** PO - 1389
F. Teunissen (The Netherlands), R. Wortel, F. Wessels, S. van de Pol, M. Rasing, A. Claes, J. de Boer, R. Meijer, H. van Melick, H. Verkooijen, J. van der Voort van Zyp
- Intra-fraction prostate motion during stereotactic irradiation in 1st irradiation and re-irradiation** PO - 1390
A. Taillez (France), A.M. Bimbai, T. Lacornerie, M. Le Deley, E.F. Lartigau, D. Pasquier

Curative radiotherapy of prostate cancer: a risk stratification system based on prognostic factors PO - 1391

S. Bisello (Italy), A. Arcelli, F. Deodato, N. Dominsky, G. Tarantino, M. Ntreta, S. Cilla, G. Siepe, L. Cavallini, D. Pezzulla, A.R. Alitto, S. Cammelli, A. Cortesi, A. Romeo, G.P. Frezza, A.G. Morganti, G. Macchia, M. Buwenge

Salvage radiotherapy of prostate cancer: a risk stratification system based on prognostic factors PO - 1392

S. Bisello (Italy), A. Arcelli, F. Deodato, N. Dominsky, G. Tarantino, M. Ntreta, S. Cilla, G. Siepe, L. Cavallini, D. Pezzulla, A.R. Alitto, A. Re, S. Cammelli, A. Cortesi, A. Romeo, G.P. Frezza, A.G. Morganti, G. Macchia, M. Buwenge

ARTO (NCT03449719), quality of life monocentric report after stereotactic treatment and abiraterone PO - 1393

G. Francolini (Italy), V. Di Cataldo, B. Detti, S. Lucidi, E. Scoccimarro, M. Mariotti, A. Peruzzi, B. Guerrieri, P. Garlatti, M. Loi, M. Mangoni, I. Desideri, I. Meattini, L. Livi

Stereotactic body radiotherapy for prostate cancer lymph node metastases: a systematic review PO - 1394

A. Zamagni (Italy), M. Bonetti, M. Buwenge, M. Ntreta, G. Tolento, S. Cammelli, C.M. Donati, E. Lodi Rizzini, M. Boccardi, A. Re, F. Deodato, S. Cilla, G. Macchia, A.G. Morganti

Post-prostatectomy ultra-hypofractionated SBRT: preliminary results of a phase II trial PO - 1395

A. Montero (Spain), O. Hernando, J. Valero, X. Chen-Zhao, J. Marti, A. Prado, E. Sanchez, M. Lopez, R. Ciervide, M. Garcia-Aranda, B. Alvarez, R. Alonso, P. Garcia, M. Nuñez, J. Palma, M. Izquierdo, K. Rossi, C. Cañadillas, P. Fernandez-Leton, C. Rubio

CBCT-guided online adaptive radiotherapy: results of the first fifty prostate cancer patients PO - 1396

L. Zwart (The Netherlands), L. ten Asbroek, E. van Dieren, S. Koch, F. Ong, A. Bhawanie, E. de Wit, J. Dasselaar

Differences between various rectal volumes and implications for patient-reported rectal toxicity PO - 1397

N. Pettersson (Sweden), C. Olsson, T. Dang, I. Olsson, A. Valdman

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SRS for brain metastases from renal cell carcinoma; UK tertiary referral centre 5-year experience PO - 1398

R. Bowen (United Kingdom), A. Hashmi, J. Lewis, A. Hassani, R. Mohanraj, J. Mott, R. Pearson

- Vinorelbine in Bladder-Preserving Multimodality Treatment for Muscle-Invasive Bladder Cancer** PO - 1399
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- Seminal vesicle adenocarcinoma: A systematic review of published literature** PO - 1400
V. Singla (India), S. Goyal, K. Periasamy, R. Madan, P. Vias
- Lung metastasis from renal cell carcinoma: SBRT alone or in association with target therapy as a potential treatment option** PO - 1401
F. Zerbetto (Italy), S. Foti, C. Deantoni, M. Pasetti, A. Chiara, T. Roberta, S. Broggi, N.G. Di Muzio
- Retrospective analysis of RCT for bladder cancer – Reflection of the real patient cohort** PO - 1402
R. von Bestenbostel (Germany), C. Baudermann, P. Rogowski, C. Trapp, C. Belka, N. Schmidt-Hegemann, M. Li
- High dose palliative radiotherapy in bladder cancer - A single centre experience from the UK** PO - 1403
M. Jackson (United Kingdom), N. Hannaway, A. Burns, R. Pearson, R. Chandler, J. Frew, A. Azzabi, X. Jiang
- Reduction of margins in bladder cancer treatment to minimize normal tissue irradiation** PO - 1404
I. Bengtson (Sweden), S. Talozzi, A. Gunnlaugsson, J. Scherman, E. Wieslander
- Decision aid for bladder cancer patients choosing between cystectomy and bladder sparing treatment** PO - 1405
J. van Tol-Geerdink (The Netherlands), AG (Toine) van der Heijden, N (Niven) Mehra, HJM (Hanneke) Meijer
- Track: Clinical*
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- Paget's disease of scrotum and penis: Case Report of a re-irradiation and Review of the Literature** PO - 1406
A. Sanfratello (Italy), A. Piras, L. Boldrini, M. La Vecchia, V. Venuti, M. Torchia, C. Lotà, C. Rinaldi, M.L. Amari, M. Orlando, L. Zichichi, T. Angileri, A. Daidone
- Radiotherapy in Gorlin Syndrome: Is it an absolute contraindication?** PO - 1407
D. Esteban Moreno (Spain), G. García Álvarez, D. Rivas Sánchez, D. Gonsalves Pieretti, S. Suarez Casanova, I. Castro Rizos, R. Molina Cruz, L.A. Glaría Enríquez, E. López Ramírez

Establishment of a national database for non-melanoma skin cancer treated with radiotherapy PO - 1408

J.G. Eriksen (Denmark), Z.G. Zimling, C.K. Lønkvist, A.L. Linnet Nielsen, P. Lassen, K. Nowicka-Matus, N. Gyldenkerne, G. Hanahan, J. Friborg, J. Overgaard, A. Gothelf

Imaging and blood biomarkers in metastatic melanoma patients treated with immunotherapy. PO - 1409

S. Burgermeister (Switzerland), G. Hubert, L. Basler, S. Hogan, M. Pavic, M. Bogowicz, D. Vuong, S. Tanadini-Lang, R. Förster, M. Huellner, R. Dummer, M. Levesque, M. Guckenberger

Hypofractionated radiotherapy in elderly patients with non-melanoma skin cancer: preliminary results PO - 1410

B. Floreno (Italy), C. Greco, E. Ippolito, M. Fiore, S. Silipigni, G. D'Ercole, S. Ramella

Electronic skin cancer brachytherapy: our experience and first outcomes PO - 1411

M. Cerrolaza (Spain), P. Sanagustin, M. Lanzuela, R. Ibañez, A. Campos, S. Flamarique, C. Garcia, C. Escuin, V. Navarro, A. Lanuza

Superficial radiotherapy in the treatment of non-melanoma skin cancer PO - 1412

M. Cerrolaza (Spain), P. Sanagustin, R. Ibañez, A. Campos, S. Flamarique, C. Garcia, C. Escuin, V. Navarro, A. Lanuza, M. Lanzuela

Melanoma brain metastasis: The outcome of WBRT in the era of effective systemic therapy PO - 1413

C. Waldstein (Austria), W. Wang, W. Wang, S. Lo, B. Shivalingam, G.B. Fogarty, M.S. Carlino, A.M. Menzies, G.V. Long, A. Hong

Track: Clinical

Digital Poster: Sarcoma

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Neoadjuvant or Adjuvant radiotherapy in advanced soft tissue sarcomas: a level playing field? PO - 1414

O. Muñoz Muñoz (Spain), A.M. Burgueño Caballero, J. Peinado Serrano, I. Rincon Perez

Association of radiomic features with aggressive phenotypes in soft tissue sarcomas PO - 1415

A. Datta (United Kingdom), L. Forker, A. McWilliam, H. Mistry, J. Zhong, J. Wylie, C. Coyle, D. Saunders, S. Kennedy, J. O'Connor, P. Hoskin, C. West, A. Choudhury

Definitive Photon Radiation Therapy For Adult Unresectable Soft Tissue Sarcoma. PO - 1416

B. Allignet (France), W. Waissi, A. Meurgey, A. Bouhamama, M. Karanian, P. Meeus, G. Vaz, F. Gouin, M. Brahmi, A. Dufresne, I. Ray-Coquard, J. Blay, C. Moncharmont, M. Sunyach

- Impact of preoperative radiotherapy in surgically treated Ewing Sarcoma** PO - 1417
M. Ganovelli (Italy), G. Frosini, M. Loi, D. Greto, B. Guerrieri, C. Mattioli, C. Cerbai, V. Lorenzetti, D.A. Campanacci, C. Caporalini, F. Muratori, G. Scoccianti, M. Mangoni, L. Livi
- Preoperative radiotherapy with/without chemotherapy for STS: preliminary assessment and efficiency** PO - 1418
C. Greco (Italy), P. Falco, I. Ridolfi, S. Gentile, E. Ippolito, M. Fiore, B. Vincenzi, S. Ramella
- Toxicity outcomes of hypofractionated pencil beam scanning proton beam therapy for spinal Chordomas** PO - 1419
N. Burela (India), S. Chilukuri, S. Nangia, K. Patro, N. Mp, U. Gaikwad, S. Sundar, R. Thimma, A. Rajendran, A. Sulaiman, D. Sharma, P.K. Panda, R. Jalali
- iCARE: sarcoma patient radiotherapy experience during COVID-19** PO - 1420
H. McCabe (United Kingdom), I. Nixon, A. Abraham, F. Cowie, H. Reeds
- MR-guided SBRT for primary cardiac sarcomas** PO - 1421
L. Boldrini (Italy), R. von Bestenbostel, A. Romano, L. Placidi, K. Straub, L. Nierer, M. Reiner, M. Niyazi, V. Valentini, C. Belka, S. Corradini
- Perioperative HDR brachytherapy and EBRT: a winning combo for soft tissue sarcomas** PO - 1422
X. Chen-Zhao (Spain), Á. Montero, J. de las Heras, B. Álvarez, I. Barrientos, A. Prado, R. Ciérvide, M. López, M. García-Aranda, E. Ortiz, M. Gutiérrez, E. Sánchez, O. Hernando, M.Á. De la Casa, J. Valero, R. Alonso, P. Fernández-Letón, C. Rubio
- Preoperative radiotherapy and concurrent chemotherapy in advanced soft tissue sarcomas.** PO - 1423
A.M. Burqueño Caballero (Spain), Ó. Muñoz Muñoz, J. Peinado Serrano, I. Rincón Pérez
- Combination of pre- and postoperative radiotherapy for soft tissue sarcomas: is it feasible?** PO - 1424
S. Novikov (Russian Federation), G. Gafton, M. Ebert, E. Fedosova, J. Melnik, G. Zinoviev, A. Artemyeva, S. Kanaev
- the effect of hypofractionated radiotherapy combined with PD-1 blockade for metastatic sarcoma** PO - 1425
L. XUE (China), X. Wang, K. Xin, Q. Wang, B. Liu, R. Li
- Role of 22q12 translocation as a predictor of metastasis and decreased survival in Ewing sarcoma** PO - 1426
B. Guerrieri (Italy), C. Mattioli, M. Loi, D. Greto, M. Ganovelli, G. Frosini, V. Lorenzetti, C. Cerbai, D.A. Campanacci, G. Roselli, A. Palomba, A. Tamburini, L. Livi

- Clinical outcomes of scalp angiosarcoma treated with intensity-modulated radiotherapy** PO - 1427
T. Iwai (Japan), S. Okabayashi, R. Ashida, T. Mitsuyoshi, T. Imagumbai, M. Kokubo
- Adjuvant Radiotherapy on Skin Grafts After Limb-Sparing Surgery in the Treatment of Sarcomas** PO - 1428
S. Gonçalves (Portugal), L. Rolim, J. Casalta-Lopes, A. Silva, M. Jacobetty, J. Freitas, R. Fonseca, J. Rodrigues, P. F. Tavares, J. M. Casanova, M. Borrego
- Long term results of neoadjuvant radiotherapy in soft tissue sarcomas of the extremities** PO - 1429
A. Cortesi (Italy), E. Galletta, M.L. Alfieri, M. Buwenge, C.M. Donati, S. Bisello, M. Boriani, G. Ghigi, A. Romeo, G. Bianchi, M. Gambarotti, A. Righi, G. Macchia, F. Deodato, S. Cilla, B. Rombi, A.G. Morganti, S. Cammelli
- Track: Clinical*
- Digital Poster: Paediatric tumours**
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- Radiotherapy in Pediatric Rhabdomyosarcoma: Validity of IRS Risk Classification for a Single Center** PO - 1430
S. Kamer (Turkey), M. Öztürk, E. Ataseven, B. Balci, B. Kadioglu, M. Kantar, D. Kizmazoglu, Y. Anacak
- An atlas to measure craniofacial growth and facial asymmetry in childhood cancer survivors** PO - 1431
M. Aznar (United Kingdom), S. Monaghan, A. Bryce-Atkinson
- Proton-therapy in pediatric patients with central nervous system tumors: a systematic review.** PO - 1432
B. Rombi (Italy), M. Roggio, L. Ronchi, F. Bertini, L. Cavallini, E. Deraco, F. Medici, M. Amichetti, A.G. Morganti, S. Cammelli
- TBI as a Component Of Conditioning Regimen in AHCST for Pediatric ALL** PO - 1433
S. Kamer (Turkey), C. Hidimoglu, S. Hoca, G. Ozek, S. Aksoylar, Y. Anacak
- Pencil beam scanning Proton therapy for Pediatric and young adults-Preliminary experience from India** PO - 1434
S. Chilukuri (India), N. Burela, R. Uppuluri, D. Indumathi, P. Panda, R. Raj, T. Raja, D. Sharma, R. Jalali
- Toxicity And Survival Outcomes In High-Risk Neuroblastoma In Childhood** PO - 1435
E. Gomis Selles (Spain), P. Cabrera Roldán, B.D. Delgado-León

Burden of pediatric oncology in radiotherapy department: A tertiary care center experience from India PO - 1436

R. Madan (India), T. Dey, S. Goyal, D. Bansal, A. Trehan, N. Peters, D. Chatterjee, N. Ballari, D. Khosla

Endocrine Late- Effects after Childhood and Adolescent Cancer - The Pan-European Registry HARMONIC PO - 1437

M.R. Wette, T. Steinmeier, Y. Lin, N. Journy, T. Tran, A. Jackson, S. Bolle, B. Fresneau, Y. Lassen-Ramshad, L. Tram Henriksen, K. Haustermans, L. Brualla, C. Bäumer, C. Demoor-Goldschmidt, J. Thariat, I. Thierry-Chef, B. Timmermann (Germany)

Treatment outcome and prognostic factors in paediatric ependymoma PO - 1438

M. Bishr (United Kingdom), F. Carceller, F. Saran, S. Vaidya, K. Powell, J. Stone, C. Chandler, B. Zebian, S. Stapleton, S. Hettige, L. Marshall, H. Mandeville

Track: Clinical

Digital Poster: Palliation

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Clinical results of SBRT for spinal metastases using dedicated contouring/planning system PO - 1439

V. Figlia (Italy), N. Gaj-Levra, R. Mazzola, M. Rigo, F. Cuccia, L. Nicosia, F. Ricchetti, G. Attinà, E. Pastorello, G. Sicignano, A. De Simone, S. Naccarato, D. Gurrera, R. Ruggieri, F. Alongi

Radiotherapy for bone metastases in gynecologic malignancies. PO - 1440

N. Bychkova (Russian Federation), E. Khmelevsky

Single fraction Lumbopelvic Bone Irradiation with Tomotherapy for widespread bone metastases PO - 1441

B. Gil Haro (Spain), S. Santana Jiménez, I. Zapata Paz, R. Molerón Mancebo, R. Rodríguez Romero, P. Sánchez Rubio, J. Velasco Jiménez, R. Benloch Rodríguez, M. Hernández Miguel, M. López Valcárcel, S. Córdoba Largo, O. Engel, C. De La Fuente Alonso, J. Romero Fernández

Fractionated stereotactic radiotherapy (SRS) for brain metastases: a single institution analysis. PO - 1442

L. Garnier, L. Lestrade, A. Falcoz, J. Henriques, F. Boulbair, J. Rouvier, D. Vernerey, Y. Hammoud, B. De Bari (Switzerland)

Precision analysis of the “teachh” model for decision-making in palliative patients PO - 1443

C. Escuin (Spain), M. Cerrolaza, V. Navarro, A. Lanuza, A. Campos, S. Flamarique, C. García, J.M. Ponce, R. Ibañez

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- Phone call triage for patients admission in a radiotherapy department during COVID 19 pandemic** PO - 1505
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- Does online learning in delineation thrive during a Pandemic? The FALCON group experience.** PO - 1525
C. Valentini (Germany), J. Cacicedo, J. Luis, E. Arrojo, V. Lancellotta, A. Matias, B. Tamaskovics, M. Palmu, E. Rivin del Campo
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U. Bernchou (Denmark), R.L. Christiansen, H.R. Jensen, F. Mahmood, A. Bertelsen, T. Schytte, C. Brink
- Dose accuracy for Nasopharyngeal Carcinoma patients under MR-guided online adaptive radiotherapy** PO - 1537
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- Inter- and interfraction organ motion for cervical cancer patients treated on a 1.5T MR-Linac** PO - 1538
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N. Johnston (Belgium), J. De Rycke, Y. Lievens, B. Vanderstraeten

Measuring tissue thickness variation using Tomotherapy sinograms for H&N replanning PO - 1653

M. Parisotto (Italy), L. Reversi, L. Alticozzi, M. Valenti, F. Fenu, C. Di Carlo, G. Mantello

Quality Assurance of C-Arm CBCT Angiography for Stereotactic Radiation Surgery PO - 1654

J.A. Feroso Gutiérrez (Spain), R. Rodríguez Romero, X. Pifarré Martínez, J. Martínez Ortega, J. Ruiz Martín, A. Gómez Gascón

Tuning deep learning models for automatic segmentation of head and neck cancers in PET/CT images PO - 1655

B.N. Huynh (Norway), A.R. Groendahl, Y.M. Moe, O. Tomic, E. Dale, E. Malinen, C.M. Futsaether

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<i><u>L. Placidi (Italy)</u>, M. Nardini, D. Cusumano, L. Boldrini, G. Chiloiro, V. Valentini, L. Indovina</i>	
Generation of synthetic CT with 3D deep convolutional neural networks for brain MR-only radiotherapy	PO - 1657
<i><u>S. aouadi (Qatar)</u>, R. Hammoud, T. Torfeh, S. Paloor, N. Al-hammadi</i>	
Inverse Consistency Error for quantifying uncertainty in DIR: validation on three different sites	PO - 1658
<i><u>M. Fusella (Italy)</u>, C. Fiandra, M. Vagni, N. Michielli, A. Scaggion, C. Vecchi, S. Zara, F. Molinari, G. Loi</i>	
Clinical validation of an automatic atlas-based segmentation tool for male pelvis CT images	PO - 1659
<i><u>M. Casati (Italy)</u>, S. Piffer, S. Calusi, L. Marrazzo, G. Simontacchi, V. Di Cataldo, D. Greto, I. Desideri, M. Vernaleone, G. Francolini, L. Livi, S. Pallotta</i>	
Investigating the generation of synthetic CT for abdominal tumors treated with particle therapy	PO - 1660
<i><u>G. Meschini (Italy)</u>, D. Calabrese, F. De Mori Bajolin, A. Vai, G. Fontana, S. Molinelli, A. Pella, S. Imperato, V. Vitolo, A. Barcellini, E. Orlandi, C. Paganelli, G. Baroni</i>	
Investigation into the impact of AI-enhanced CBCTs on CBCT-CT deformable image registration	PO - 1661
<i><u>D. Balfour (United Kingdom)</u>, P. Looney, L. Turtle, J. Fenwick, D. Boukerroui, J. Sage</i>	
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<i><u>J. Dhont (The Netherlands)</u>, C. Wolfs, F. Verhaegen</i>	
Interactive deep-learning based tumor segmentation	PO - 1663
<i><u>Z. Wei (Denmark)</u>, J. Ren, J.G. Eriksen, S.S. Korreman, J.A. Nijkamp</i>	
Direct Density algorithm evaluation	PO - 1664
<i><u>M. Garcia Cutillas (Spain)</u>, B. Fornes García</i>	
Comparison of mid-position CT reconstruction systems	PO - 1665
<i><u>M. Pereira (Portugal)</u>, J. Stroom, F. Ghareeb, D. Boukerroui, M. J. Gooding, C. Greco</i>	

- Streamlining the use of PET/MRI in an MR-only radiotherapy workflow** PO - 1666
R. Winter (Norway), N. Bach-Gansmo, O. Sæther, M. Alsaker, K.R. Redalen
- Statistical limitations in particle imaging tomography** PO - 1667
C. Fekete (United Kingdom), N. Dikaivos, E. Baer, P.M. Evans
- Impact of immobilization devices on planning target volume for pelvic radiotherapy patients** PO - 1668
P. Agarwal (India), N. Upadhyay, S.S. Nanda, L. Pujari, R. Shrivastava, A. GV, A. Mukherji, S. Pradhan
- Commissioning of iterative model reconstruction (IMR) on Philips BigBore CT Scanner** PO - 1669
G. Bolard (Switzerland)
- Clinical implementation of MRI-only radiotherapy workflow for prostate cancer with a standard linac** PO - 1670
M. Felisi (Italy), A.F. Monti, D. Lizio, S. Nici, S. Riga, R.G. Pellegrini, B. Bortolato, M.G. Brambilla, C. Carbonini, C. Carsana, D. Sibio, C. Potente, A. Vanzulli, M.F. Palazzi, A. Torresin
- Comparison between DIR of Eclipse and Velocity in PET/CT studies** PO - 1671
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- Characterization of the geometric distortion and the quality of MR images used for spine SBRT** PO - 1672
T. Torfeh (Qatar), R. Hammoud, S. Aouadi, Y. Arunachalam, S. Paloor, N. Al-Hammadi
- Improving data collection for deep-learning auto-segmentation models** PO - 1673
D. McSweeney (United Kingdom), P.A. Bromiley, M. van Herk, A. Green, A. McWilliam
- An MRI sequence independent Convolutional Neural Network for head sCT generation in proton therapy** PO - 1674
B. Knäusl (Austria), L. Zimmermann, M. Stock, C. Lütgendorf-Caucig, D. Georg, P. Kuess
- Automated delineation for MR-only prostate radiotherapy using a 2.5D convolutional neural network** PO - 1675
C. Holland (United Kingdom), J. Wyatt, R. Pearson, T. Wintle, R. Maxwell

- Validating CBCT to CT registration QC using an AI generated dataset.** PO - 1676
J. Sage (United Kingdom), P. Looney, R. Chuter, G. Price, D. Boukerroui, D. Balfour, P. Whitehurst, M.J. Gooding
- cGAN-based pseudo-CT generation for prostate MRI-only radiotherapy** PO - 1677
S. Tahri (France), C. Cadin, H. Chourak, A. Barateau, S. Ribault, O. Acosta, P. Greer, J. Dawling, C. Lafond, R. De Crevoisier, J. Nunes
- simulation of low-dose cone beam CT for paediatric image-guided proton beam therapy** PO - 1678
J. Lindsay (United Kingdom), A. Bryce-Atkinson, S. Meara, D. Lines, M. van Herk, M. Aznar
- Semiautomatic contouring of dominant intraprostatic lesions in prostate using diffusion weighted MRI** PO - 1679
V. GIACOMETTI (United Kingdom), A.R. Hounsell, S. Jain, C.K. McGarry
- Synthetic-CT generation from T1w brain MRIs with a cascaded GANs ensemble approach** PO - 1680
A. Lombard (France), K. Shreshtha, C. Robert, T. Roque, F. Fauchon, G. Noël, N. Paragios, E. Deutsch
- Effectiveness of a Cranial Distortion Correction Software Using A Novel Measurement Method** PO - 1681
T. Belloeil-Marrane, A. Gutierrez, J. Smeulders, T. Gevaert (Belgium), M. De Ridder
- Towards a clinical helium ion imaging system** PO - 1682
L. Volz (Germany), T. Vichtl, C. Collins-Fekete, J. Seco
- Spatial Characterization of errors in pseudo-CT generation for MRI-only radiotherapy** PO - 1683
H. Chourak (France), A. Barateau, C. Cadin, C. Lafond, J. Nunes, R. De Crevoisier, J. Dowling, P. Greer, O. Acosta
- Correlations of tumour permeability parameters from DCE-MRI with ADC in nasopharyngeal carcinoma** PO - 1684
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- Application of radiomics feature captured from MRI for prediction of recurrence for glioma patients** PO - 1685
C. Liu (China), Y. Li, J. Wang, C. Hu

- A novel semi auto-segmentation method for head and neck adaptive radiotherapy** PO - 1686
Y. Gan (The Netherlands), J.A. Langendijk, E. Oldehinkel, D. Scandurra, N. Sijtsma, Z. Lin, S. Both, C. Brouwer
- Evaluation of the CT eFOV image distortion and the effect on VMAT plan dosimetry** PO - 1687
S. Savva (United Kingdom), N. Piracha
- Automatic Detection of Circular Contour Errors Using Convolutional Neural Networks** PO - 1688
N. Futakami (Japan), T. Nemoto, E. Kunieda, Y. Matsumoto, A. Sugawara
- Sample pairing (mixup) as a data augmentation technique for deep medical image segmentation networks** PO - 1689
L.J. Isaksson (Italy)
- Synthetic generation of pulmonary nodules using super resolution generative adversarial model** PO - 1690
Z. Wang (The Netherlands), L. Wee, A. Dekker, A. Traverso
- A deeply supervised convolutional neural network ensemble for multilabel segmentation of pelvic OARs** PO - 1691
M. Lempart (Sweden), M.P. Nilsson, J. Scherman, M. Nilsson, C. J. Gustafsson, C.J. Gustafsson, P. Munck af Rosenschöld, L. E. Olsson
- Principal curve-based and AI-based method for ultrasound prostate delineation** PO - 1692
T. Peng (Hong Kong (SAR) China), C. Tang, J. Cai
- 4D CT analysis of organs at risk (OARs) in stereotactic radiotherapy** PO - 1693
V. Nardone (Italy), F.M. Giugliano, A. Reginelli, M. Mormile, L. Iadanza, S. Cappabianca, C. Guida
- Target localization uncertainty in Gamma Knife SRS: Comparison of three frame-based workflows** PO - 1694
E. Pappas (Greece), I. Seimenis, P. Kouris, D. Dellios, S. Theocharis, P. Karaiskos
- Accurate H&N 3D segmentation with limited training data using 2-stage CNNs** PO - 1695
E. Henderson (United Kingdom), E. Vasquez Osorio, M. van Herk, C. Brouwer, R. Steenbakkers, A. Green

Track: Physics

Digital Poster: Implementation of new technology, techniques, clinical protocols or trials (including QA & audit)

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Clinical commissioning a synchrotron-based proton therapy system PO - 1696

J.D. Azcona (Spain), B. Aguilar, L. Irazola, A. Viñals, P. Cabello, D. Zucca, A. Perales, R. Polo, J.M. Delgado, J. Burguete

Gradient-based neuroevolution of augmenting topologies for compact, low compute deep ANN search PO - 1697

S. Thulasi Seetha, K. Driessens, H. Woodruff, T. Rancati (Italy), E. Bertocchi, U. Pastorino, P. Lambin

Changing the paradigm from a « cold » to a radioactive localisation technique in breast surgery PO - 1698

C. Dejean (France), M. Koulibaly, L. Elkind, J. Haudebourg, E. Barranger, C. Hoog

continuous quality improvement and performance assessment in radiotherapy; system thinking approach PO - 1699

S. Abdollahi (Iran Islamic Republic of), F. Varshoe, Y. Makhdoumi, F. Jamali, L. Sobhkhiz Sabet

Automated plan quality assessment tool for head and neck cancer VMAT plans PO - 1700

I. van Bruggen (The Netherlands), E. de Ronde, R. Steenbakkers, A. van den Hoek, T. van Zon-Meijer, E. Oldehinkel, J. Langendijk, R. Kierkels, S. Both, E. Korevaar

Effects of atelectasis changes on geometric and dosimetric in tumor and lung tissue for lung cancer PO - 1701

H. Chen (China), Z. Xu

A simple method to measure the latency in gated proton therapy using a scintillating crystal PO - 1702

J. Thomsen (Denmark), E. Worm, J. Johansen, P. Rugaard

High-dimensional beam modulation complexity for gamma passing rates prediction using AI methods PO - 1703

P. Quintero (United Kingdom), Y. Cheng, D. Benoit, C. Moore, A. Beavis

A method for proton pencil beam scanning treatment fraction and course integrity QA PO - 1704

G. Guterres Marmitt (The Netherlands), A. Pin, A. Hengeveld, C.O. Ribeiro, J.A. Langendijk, S. Both

- Evaluation of a markerless SGRT-only workflow for breast cancer patients** PO - 1705
T. Sauer (Germany), D. Popp, O.J. Ott, C. Bert
- Stereotactic body radiotherapy for bone metastases: Initial lessons learned regarding setup** PO - 1706
F. Gaard-Petersen (Denmark), M. van Overeem Felter, M. Josipovic, E. Serup-Hansen, C.F. Behrens, G. Persson
- Near misses reporting: effective tool for safety culture shift in a Radiation Oncology Department** PO - 1707
N. Jornet (Spain), J. Perez Alija, S. Bermejo, N. Ventosa, A. Pedro, G. Gomez de Segura, P. Guerra, G. Sancho
- In-House Incident Learning System for FMEA Using Microsoft Sharepoints and Powerapps** PO - 1708
D. Soultan (USA), M. Bragg, T. Thompson, A. Hoover
- Automation of DVH constraint checks and physics quality control improves patient safety** PO - 1709
N. Jensen (Denmark), I. Wahlstedt
- Atlas-based auto-segmentation for delineating the heart and cardiac substructures radiation therapy** PO - 1710
M.L. Milo (Denmark), T.B. Nyeng, E.L. Lorenzen, L. Hoffmann, D.S. Møller, B.V. Offersen
- CoBra: Towards Robotic Real Time MRI-Guided Prostate Brachytherapy and Biopsy** PO - 1711
S. Wilby (United Kingdom), A. Palmer, W. Polak, S. Singh Dhaliwal, S. Firouzy, A. Labib, D. Jones, S. Escaida Navarro, R. Merzouki, K. Boni Brou, D. Pasquier, J. van den Dobbelsteen, M. de Vries
- Oligorecurrent nodal prostate cancer: radiotherapy QA of the randomized PEACE V-STORM phase II trial** PO - 1712
V. Achard (Switzerland), R. Heikkilä, P. Dirix, S. Siva, N. Liefhooghe, A. Conde-Moreno, S. Meersschout, P. Muto, C. Eíto, M. Barrado, P.M. Putora, D. Zwhalen, M. Scorsetti, A. Zapatero, L. Van De Voorde, F. López Campos, F. Couñago, F. Vanhoutte, M. Jaccard, G. Dipasquale, P. Ost, T. Zilli
- Risk analysis and quality assurance for a standalone single-room protontherapy facility** PO - 1713
A. Mazal (Spain), J. Castro, J.A. Vera, J.M. Perez, E. Pascual, C. Ares, R. Miralbell, M. Cremades

<p>Commissioning of an OSLD dosimetric system for level I postal audits for radiotherapy in Argentina</p> <p><i><u>A. Ruiz (Argentina), J. Irazoqui, S. Bianchini, D. Tolabin</u></i></p>	<p>PO - 1714</p>
<p>Accuracy of a dedicated single isocenter stereotactic radiosurgery system for multiple brain lesions</p> <p><i><u>T. Gevaert (Belgium), A. Gutierrez, J. Smeulders, M. Boussaer, T. Everaert, A. Bom, C. Ferro Teixeira, B. Engels, M. De Ridder</u></i></p>	<p>PO - 1715</p>
<p>Neoprene wet suit hood bolus in total scalp helical tomotherapy: does it work?</p> <p><i><u>G. Lazzari (Italy), D. Becci, A. Bruno, E. Verdolino, F. Itta, D. Mola, G. Silvano</u></i></p>	<p>PO - 1716</p>
<p>In vivo shielding disc setup verification for breast IOERT</p> <p><i><u>C. Cases Copestake (Spain), G. Oses, A. Herreros, J. Saez, C. Gomà, C. Castro, E. Escudero, M. Mollà</u></i></p>	<p>PO - 1717</p>
<p>Variations in MR linac beam performance – daily EPID-based results from 22 months of clinical use</p> <p><i><u>A. Bertelsen (Denmark), E.L. Lorenzen, K.L. Gottlieb, S.N. Agergaard, R.L. Christiansen, H.R. Jensen, H.L. Riis, C. Brink, U. Bernchou</u></i></p>	<p>PO - 1718</p>
<p>Incorporation of an agile test into the linacs QA to verify the beam focal spot</p> <p><i><u>A. Garcia Sanz (Spain), R. Ayala Lázaro, M.J. Garcia Hernández, J.M. Becerro Morgado, Á. Soza Marañón, S. Gómez Cores, E. Martínez Gómez</u></i></p>	<p>PO - 1719</p>
<p>SunCHECK Machine, an automated QA software solution: A centres 5 year experience evaluation</p> <p><i><u>G. Martin (United Kingdom), K. Fogarty, D. Egleston, L. Howard, M. Gilmore</u></i></p>	<p>PO - 1720</p>
<p>Use of a bolus for skin cancer interventional radiotherapy in absence of model-based algorithms.</p> <p><i><u>E. Placidi (Italy), A. Napolitano, B. Fionda, F. Greco, P. Cornacchione, D. Cusumano, C. Casà, G. Stimato, V. Lancellotta, S. Teodoli, M. Ferioli, S. Cilla, G. Macchia, G. Kovacs, M.A. Gambacorta, L. Tagliaferri, L. Indovina</u></i></p>	<p>PO - 1721</p>
<p>Real-Time observation of patients with wireless-enabled cardiac ICD during RT: are these safe?</p> <p><i><u>D. Fasciolo (Italy), D. Fasciolo, C. Rosa, E. Di Girolamo, D. Genovesi, M.D. Falco</u></i></p>	<p>PO - 1722</p>
<p>Deep learning method for TomoTherapy Hi-Art: prediction three-dimensional dose distribution</p> <p><i><u>D. Carlotti (Italy), D. Aragno, R. Faccini, M.C. Pressello, R. Rauco, S. Giagu</u></i></p>	<p>PO - 1723</p>

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<i><u>K. Pasma (The Netherlands), R. Meerveld, J. Barnhoorn, M. Leusink</u></i>	
Phantom study of Cyberknife Synchrony cardiac treatments with a single fiducial marker	PO - 1725
<i><u>C. Piccolo (Italy), S. Vigorito, E. Rondi, G. Piperno, A.M. Ferrari, M. Pepa, E. Conte, V. Catto, D. Andreini, C. Carbucicchio, B.A. Jereczek-Fossa, F. Cattani</u></i>	
Automated transfer of couch coordinates from TPS to R&V system using DICOM to improve patient safety	PO - 1726
<i><u>M. Breuers (The Netherlands), G. Hilgers, T. Nuver, E. van der Wal, K. Pasma</u></i>	
Biological validation using tissue samples of three CT scanners commissioned for proton therapy	PO - 1727
<i><u>J.D. Azcona (Spain), B. Aguilar, A. Viñals, P. Cabello, J.M. Delgado</u></i>	
Optimal camera setup for SGRT system on a ProteusOne proton therapy system, a simulation study	PO - 1728
<i><u>L. Delombaerde (Belgium), T. Depuydt</u></i>	
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<i><u>Y. Huang (China)</u></i>	
Feasibility of Virtual Reality-based target volume delineation for craniospinal irradiation	PO - 1730
<i><u>M. Volpini (Canada), A. Jooya, D. La Russa, J. Sutherland, R. Samant, V. Nair</u></i>	
Streamlined Quality Assurance on Positioning Guidance Systems with Single Phantom Setup	PO - 1731
<i><u>Y. Du (China), S. Zhou, J. Li, S. Yu, H. Yue, M. Wang, H. Wu</u></i>	
IPEM Guidelines on the use of MRI for external beam radiotherapy treatment planning	PO - 1732
<i><u>R. Speight (United Kingdom), M. Dubec, C. Eccles, B. George, A. Henry, T. Herbert, R. Johnstone, G. Liney, H. McCallum, M. Schmidt</u></i>	
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<i><u>T. Valdivielso Lopez (Spain), D. Navarro, E. Ambroa, A. Infestas, M. Lizondo, A. Ramirez, J. García-Miguel, M. Colomer</u></i>	

- Accuracy evaluation of ExacTrac X-ray Snap Verification for the oesophageal cancer radiotherapy** PO - 1734
J. Duan (China)
- A systematic review on motion, margins and delineation variability in thoraco-abdominal pediatric RT** PO - 1735
K. Meijer (The Netherlands), I. van Dijk, S. Huijskens, J. Daams, C. Windmeijer, B. Balgobind, A. Bel
- Using the DcmCollab Audit Tool to support quality assurance of clinical radiotherapy trials** PO - 1736
S. Krogh (Denmark), C. Brink, E. Samsøe, E. Lorenzen, C. Grau, C.R. Hansen
- Design of a rotatable head fixation for cranial stereotactic treatments** PO - 1737
O. Sauer (Germany), S. Wegener, R. Schindhelm
- Reducing Dose Hot Spots for Hypofractionated Gamma Knife Radiosurgery via Hundreds of Isocenters** PO - 1738
N.W. Cho, D. Raleigh, B. Ziemer, T. Nano, P. Theodosopoulos, P. Sneed, L. Boreta, S. Braunstein, L. MA (USA)
- Optimal threshold of model parameters for the respiratory tracking system with helical tomotherapy** PO - 1739
W. Okada (Japan), M. Tanooka, H. Doi, K. Sano, M. Shibata, K. Nakamura, Y. Sakai, M. Tanaka
- Statistical process control for routine QA of medical linear accelerators: a 14 years experience** PO - 1740
P. Viola (Italy), M. Craus, C. Romano, G. Macchia, F. Deodato, M. Buwenge, S. Cammelli, S. Bisello, V. Valentini, A.G. Morganti, S. Cilla
- A feasibility study: collimator angle, gantry spacing and sliding window can improve HNC plans?** PO - 1741
P. Ferrari (Italy), M. Haller, S. Bou Selman, M. Rosa, S. Hofer, J.M. Waskiewicz, M. Maffei
- Early clinical experience with Ethos Therapy system for delivery of urgent palliative IMRT plans** PO - 1742
D. Withers (United Kingdom), A. Ward, S. Graham, G. Kidane, E. Almond
- Patient positioning and intrafraction movement control protocol using an IGRT and SGRT system in SRS** PO - 1743
M. Pinto Monedero (Spain), R. Rodríguez Romero, P. Sánchez Rubio, J. Martínez Ortega, A. López Corella, M. Torres López, J. Ciudad Roca, A.M. Lloret Gudiña

An Italian project for dosimetry audits in radiotherapy PO - 1744

P. Martucci (Italy), M. Pimpinella, S. Russo, C. Fiandra, M. D'Arienzo, V. De Coste, C. Pugliatti, P. De Felice, M. Stasi

A pre-trial quality assurance for salvage radiotherapy of the multi-institutional PERYTON-trial PO - 1745

F. Staal (The Netherlands), K. Ng Wei Siang, C. Brouwer, B. Vanneste, M. de Jong, T. Budiharto, D. Haverkort, M. van de Sande, H. Langendijk, R.J. Smeenk, S. Aluwini

Redash based radiotherapy surveillance system PO - 1746

R. Avala (Spain), A. García, J.M. Becerro, Á. Soza, R. García, G. Ruiz, M.J. García

Track: Physics

Digital Poster: Intra-fraction motion management

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Tracking accuracy and margins for synchronized deliveries on Radixact using patient-specific motions PO - 1747

W. Ferris (USA), W. Culberson, J. Bayouth

SGRT quality assurance for stereotactic treatments PO - 1748

R. Rodríguez Romero (Spain), A. López Corella, M. Torres López, M. Pinto Monedero, P. Sánchez Rubio, J. Martínez Ortega

Initial experience with Surface-guided radiation therapy (SGRT) in SRS treatments PO - 1749

P. Sánchez-Rubio (Spain), R. Rodríguez-Romero, M. Pinto-Monedero, J. Martínez-Ortega, M. Torres-López

Plan robustness analysis of single-isocenter multiple brain metastases SRS PO - 1750

J. Calvo-Ortega (Spain), J. Casals-Farran

Inter- and intra-fractional uncertainties in deep inspiration breath-hold (DIBH) breast treatment PO - 1751

P. Retorta (Spain), D. Sevillano, M. Cámara, A.B. Capuz, R. Colmenares, J.D. García, R. Morís, F. Orozco, M.J. Béjar, D. Prieto, P. Galiano, F. García

Intrafractional motion detection for spine SBRT via X-ray imaging using ExacTrac Dynamic PO - 1752

J. Mücke (Germany), D. Reitz, G. Landry, M. Reiner, C. Belka, M. Niyazi, P. Freislederer

- The influence of beam and organ motion on pancreas proton irradiations** PO - 1753
B. Knäusl (Austria), F. Lebbink, P. Fossati, E. Engwall, T. Madar, A. Carlino, D. Georg, M. Stock
- Planning study investigating intrafraction motion for prostate SBRT with focal lesion boost** PO - 1754
M. Trainer (United Kingdom), B. Nailon, L. Carruthers, M. Kirby
- What is the best reference image for IGRT using 4D CBCT?** PO - 1755
M. van Herk (United Kingdom), A. Bryce-Atkinson, J. Lindsay, C. Faivre-Finn, C. Eccles
- Real time motion-including dose reconstruction on the MR-Linac** PO - 1756
E. Goodwin (United Kingdom), R. Nilawar, S. Nill, U. Oelfke
- Monitoring the intra-fraction motion with optical surface scanners during palliative radiotherapy** PO - 1757
N.A. Hoffmans-Holtzer (The Netherlands), M. Olofsen-van Acht, M. Hoogeman, S. Petit
- A bone suppression method to improve tumour motion monitoring in intensity-based 2D/3D registration** PO - 1758
I. Gulyas (Austria), P. Trnkova, D. Georg, A. Renner
- Pre-treatment CBCT rotations as a predictor of intra-fraction motion in cranial SRS patients.** PO - 1759
R. Dawson (United Kingdom), R. Brass
- Optimal Move: increasing the range of motion of a 6DoF robotic couch** PO - 1760
G. Warmerdam (The Netherlands), S. Postma, J. Barnhoorn, M. Luesink, A. Arents, K. Pasma
- Exactrac X-ray imaging during stereotactic radiotherapy of bone metastases. Comparison with kV-CBCT** PO - 1761
A. Hadj Henni (France), S. Thureau, E. Colard, G. Bulot, M. Roge, C. Hanzen, D. Gensanne
- Feasibility study to achieve hypofractionated IMPT PBS within a single breath-hold for lung cancer** PO - 1762
V. Maradia (Switzerland), S. Bertschi, M. Krieger, S. van de Water, D. Meer, J.M. Schippers, A.J. Lomax, D.C. Weber, S. Psoroulas

Comparison of intrafractional optical surface/thermal and X-ray imaging for cranial radiotherapy	PO - 1763
<i><u>P. Freislederer (Germany), D. Reitz, V. da Silva Mendes, G. Landry, M. Reiner, M. Niyazi, C. Belka, S. Corradini</u></i>	
Evaluation of the setup accuracy of a surface scanning system in radiotherapy of breast cancer	PO - 1764
<i><u>J. Knutsson (Sweden), G. Johansson, L. Dagertun, M. Olin, A. Siegbahn</u></i>	
Markerless 3D tumor tracking during single-fraction free-breathing flattening-filter-free lung SBRT	PO - 1765
<i><u>I. Remmerts de Vries (The Netherlands), M. Dahele, H. Mostafavi, B. Slotman, W. Verbakel</u></i>	
Validation of layer rescanning techniques for mediastinal treatments in proton therapy with PBS	PO - 1766
<i><u>G. Castiglione Minischetti (Italy), M. Schwarz, E. Engwall, F. Fracchiolla</u></i>	
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<i><u>A. Mannerberg (Sweden), E. Konradsson, M. Kügele, A. Edvardsson, C. Ceberg, H. Thomasson, M.L. Arendt, K. Bastholm Jensen, S. Ceberg</u></i>	
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<i><u>D. Gensanne (France), S. Linca, B. Dubray</u></i>	
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<i><u>F. Orozco Martínez (Spain), R. Morís, R. Colmenares, M. Cámara, A.B. Capuz, J.D. García, D. Sevillano, P. Retorta, M.J. Béjar, D. Prieto, P. Galiano, F. García</u></i>	
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<i><u>L. Masi (Italy), R. Doro, V. Di Cataldo, L. Redapi, G. Francolini, L. Visani, L. Livi</u></i>	
Accuracy for patient setup positioning with Catalyst™ HD for deformed cases	PO - 1771
<i><u>B. Kadman (Japan), A. Takemura, T. Ito, N. Okada, H. Kojima, S. Ueda</u></i>	
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<i><u>M. Ramtohum (United Kingdom), S. Parveen, B. Allan, A. Qudir, S. Green, Q. Ghafoor, M. Parkes</u></i>	

Value of respiratory monitoring and analysis for patients irradiated for lung or breast carcinoma PO - 1773

E. van Dieren (The Netherlands), D. Hubers, D. Woutersen, K. Slump

Reproducibility of spirometer-guided DIBH in left-breast treatments with optical surface monitoring PO - 1774

C. Romano (Italy), M. Craus, P. Viola, V.E. Morabito, F. Deodato, G. Macchia, M. Boccardi, M. Buwenge, S. Cammelli, A.G. Morganti, V. Valentini, S. Cilla

Effect of intra-fraction patient stability on treatment margins in brain SRS with Cyberknife PO - 1775

D. Sevillano (Spain), J.D. García-Fuentes, M. Cámara, E. Fernández-Lizarbe, M. Martín-Sánchez, C. De la Pinta, R. Colmenares, B. Capuz, R. Morís, F. Orozco, P. Retorta, P. Galiano, M.J. Béjar, D. Prieto, F. García-Vicente

Track: Physics

Digital Poster: Quantitative functional and biological imaging

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SPECT-CT sentinel lymph nodes atlas for breast cancer: implications for lymph nodes contouring. PO - 1776

S. Novikov (Russian Federation), P. Krzhivitskiy, A. Valitova, Y. Melnik, J. Bryantceva, I. Akulova, P. Krovorotko, S. Kanaev

68Ga-fibroblast activation protein inhibitor PET/CT on GTV delineation of oesophageal cancer PO - 1777

L. Zhao (China), H. Chen, Q. Lin

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H. Tharmalingam (United Kingdom), Y. Tsang, A. McWilliam, R. Alonzi, A. Padhani, A. Choudhury, P. Hoskin

Endoscopically Determined Gross Tumor Volume and Metabolic Tumor Volume in Esophageal Cancer PO - 1779

T.H. Lee (Korea Republic of), H.G. Ryoo, R. Lee, J.C. Paeng, H. Chung, H.J. Kim

Track: Physics

Digital Poster: Radiation protection, secondary tumour induction and low dose

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Evaluation of couch activation in high energy radiation treatment PO - 1780

A. Lastrucci (Italy), L. Fedeli, M. Betti, F. Meucci, E. Serventi, A. Vaiano, D. Fedele, L.N. Mazzoni, R. Ricci, C. Gori, L. Bernardi

- Assessment of water equivalent diameter of CT patients based on effective diameter** PO - 1781
A. Abuhaimed (Saudi Arabia), C. Martin
- Doses from 2.5 MV and 6 MV 2D-imaging in IGRT, measured with MOSFET detectors** PO - 1782
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- Competitive study between estimation of lung dose using different methods for the patient size** PO - 1783
A. Abuhaimed (Saudi Arabia), C. Martin
- On the Risk of Secondary Cancer from Thymoma Radiotherapy** PO - 1784
B. Youssef (Lebanon), W. Jalbout, R. Jbara, C. Rizk
- Non-target dose reduction at phantom study for prostate radiotherapy using TrueBeam and CyberKnife** PO - 1785
M. Kruszyna-Mochalska (Poland), A. Skrobala, P. Romanski, A. Ryczkowski, W. Suchorska, K. Kulcenty, I. Piotrowski, N. Matuszak, J. Malicki
- Computed tomography of the head for therapy planning of pediatric patients – impact of scan-length** PO - 1786
J. Wulff (Germany), R. Schmidt, C. Bäumer, B. Timmermann, K. Zink
- The Effect of Reducing CT Dose on Proton Therapy Dose Calculation – Phantom Study** PO - 1787
M. ELHAMIASL (Belgium), K. Salvo, E. Sterpin, J. Nuyts
- Estimated risk of radiation-induced cancer after thymoma treatments with proton- or x-ray beams** PO - 1788
A. Lideståhl (Sweden), G. Johansson, A. Siegbahn, P.A. Lind
- Use of water-equivalent diameter to assess organ doses of adult patients from CT body scans** PO - 1789
A. Abuhaimed (Saudi Arabia), C. Martin

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- Alpha-Beta ratio estimation and radiotherapeutic equivalence of chemotherapy in oesophageal cancer** PO - 1790
K.S. Chufal (India), I. Ahmad, A.A. Miller, R. Bajpai, R.L. Chowdhary, P. Umesh, K. Bhatia, M. Gairola
- Scaling Down Deep Learning Architectures for Medical Datasets** PO - 1791
G. Valdes (USA), Y. Interian, O. Morin, W. Arbelo
- On dose cube pixel spacing pre-processing for features extraction stability in dosomic studies** PO - 1792
L. Placidi (Italy), D. Cusumano, J. Lenkowicz, L. Boldrini, V. Valentini
- Quantifying the oxygen fixation mechanism in charged particle beams** PO - 1793
F. Van den Heuvel (The Netherlands), A. Vella, F. Fiorini, M. Brooke, M. Hill, T. Maughan
- Features robustness in the radiomic workflow: the impact of software choice on feature variability** PO - 1794
M. Zaffaroni (Italy), G. Carloni, S. Volpe, C. Garibaldi, G. Marvaso, S. Gandini, C. Rampinelli, G. Petralia, E. Cassano, M. Bellomi, M. Cremonesi, V. Positano, R. Orecchia, B.A. Jerezek-Fossa
- diffusion model based target definition for high-grade gliomas: robustness analysis** PO - 1795
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- Machine learning-based models of toxicity in prostate cancer ultra-hypofractionated radiotherapy** PO - 1796
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- Relating proton LETd to biological response of salivary glands using PSMA-PET in clinical patients** PO - 1797
D. Wagenaar (The Netherlands), J. Langendijk, V. Mohan, R. Steenbakkers, W. Vogel, S. Both
- Impact of inter-observer variability on MRI radiomic features in bladder cancer** PO - 1798
T. Elumalai (United Kingdom), Y.P. Song, H. Mistry, M. Dubec, S. Jackson, M.V. Herk, P. Hoskin, A. Choudhury, A. McWilliam
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- Exploring hypoxia in prostate cancer with T2-weighted MRI radiomics and pimonidazole scoring.** PO - 1800
L. Leech (Ireland), R. Leijenaar, T. Hompland, J. Gaffney, H. Lyng, L. Marignol
- Regional variation in relative biological effectiveness and pediatric brainstem toxicity** PO - 1801
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- Deep learning using Pre-NACRT imaging can predict pathological response in esophageal cancer** PO - 1802
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- Voxel-wise quantification of anatomical tumor lung location is associated with overall survival** PO - 1803
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- Local radiomics and clinical variables to predict radiation-induced pneumonitis in NSCLC patients** PO - 1804
D. Vuong (Switzerland), C. Brink, M. Bogowicz, T. Schytte, O. Hansen, S. Long Krogh, M. Guckenberger, S. Tanadini-Lang
- In silico tumour modelling accounting for tumour oxygenation and its dynamics** PO - 1805
F. Schiavo (Sweden), E. Kjellsson Lindblom, I. Toma-Dasu
- A framework for evaluating in vitro effects of GRID irradiation** PO - 1806
D. Arous (Norway), B. V. Håland, M. Børsting, N. F.J. Edin, E. Malinen
- Automated detection of online auto-segmentation deviations by an independent segmentation algorithm** PO - 1807
M. Claessens (Belgium), P. Dirix, D. Verellen
- Machine learning to predict best clinical plan for left-sided whole breast radiotherapy** PO - 1808
C. Fiandra (Italy), F. Cattani, C. Leonardi, S. Comi, S. Zara, L. Rossi, B.A. Jereczek-Fossa, U. Ricardi, B.J.M. Heijmen
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P. Poulsen (Denmark), M. Sitarz, J.G. Johansen, E. Kanouta, C.E. Andersen, C. Ankjærsgaard, C. Grau, B.S. Sørensen

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<i>M. Krieger (Switzerland), S. Van de Water, M.M. Folkerts, A. Mazal, S. Fabiano, N. Bizzocchi, D.C. Weber, S. Safai, A.J. Lomax</i>	
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<i>Z. Dai (China), C. Cai, W. Lv, L. Lu, X. Wang, L. Zhu, B. Zhang, G. Yang</i>	
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<i>S. Habraken (The Netherlands), S. Breedveld, J. Groen, J. Nuyttens, M. van Vulpen, M. Hoogeman</i>	
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<i>A. Carver (United Kingdom), S. Green, G. Webster, Q. Ghafoor</i>	
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<i>E. van der Bijl (The Netherlands), L. Kermeijer, R. Monshouwer</i>	
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<i>A. Green (United Kingdom), E. Vasquez Osorio, M. van Herk, A. McWilliam</i>	
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<i>S. aouadi (Qatar), S. Chandramouli, T. Torfeh, R. Hammoud, N. Al-hammadi</i>	
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<i>C. Rosa (Italy), F.C. Di Guglielmo, L. Gasparini, L. Caravatta, M. Di Tommaso, A. Delli Pizzi, M. D'Annibale, P. Chiacchiarretta, A.M. Chiarelli, P. Croce, D. Genovesi</i>	

- Intra-mandible radio-sensitivity for osteoradionecrosis: effect of local dose and teeth extractions** PO - 1820
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- Impact of motion compensated reconstruction of 4DCT on radiomic features** PO - 1821
C. Sargeant (United Kingdom), A. Davey, M. van Herk, A. McWilliam
- Feasibility of spatial normalisation for image-based data mining in breast cancer radiotherapy** PO - 1822
T. Jaikuna (United Kingdom), M. Aznar, P. Hoskin, M. Van Herk, C. West, E. Vasquez Osorio
- Track: Physics
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- Evaluation of dosimetric parameters with Co-60 and Ir-192 HDR brachytherapy of cervical cancer** PO - 1823
S. Srivastava (India), N. Moirangthem, N. Singh
- Segmentation of bone marrow using an intensity and histogram-based energy minimization approach** PO - 1824
J.L. Lopez Guerra (Spain), P. Gómez-Millán, M. Perucha, J. Pérez-Carrasco, B. Acha, C. Serrano, B.D. Delgado León, O. Muñoz Muñoz, C. Suárez-Mejías
- Plan quality versus anatomic mutual disposition in moderate hypofractionated prostate radiotherapy** PO - 1825
S. Trivellato (Italy), P. Caricato, V. Faccenda, G. Montanari, V. Tremolada, R. Lucchini, D. Panizza, S. Arcangeli, E. De Ponti
- A tool to standardize plan quality in moderate hypofractionated prostate radiotherapy** PO - 1826
S. Trivellato (Italy), P. Caricato, V. Faccenda, G. Montanari, V. Tremolada, R. Lucchini, D. Panizza, S. Arcangeli, E. De Ponti
- Validation of a direct method to convert Acuros XB dose-to-medium to dose-to-water in lung SBRT** PO - 1827
C. Muñoz-Montplet (Spain), R. Fuentes-Raspall, D. Jurado-Bruggeman, S. Agramunt-Chaler, A. Onsès, J.C. Vilanova
- Comparison of two automated treatment planning solutions for prostate cancer** PO - 1828
D. Kopeć (Poland), A. Zawadzka, D. Bodzak, P. Kukolowicz

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<i><u>J. Kravenbuehl (Switzerland), V. Gajdos, C. Linsenmeier, M. Guckenberger, S. Tanadini-Lang</u></i>	
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<i><u>M. de la Bastide (United Kingdom)</u></i>	
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<i><u>B. Polat (Germany), L. Binder, F. Exner, P. Kessler, M. Flentje, K. Bratengeier</u></i>	
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<i><u>R. Stansbridge (United Kingdom), R. Caines, C. Lee</u></i>	
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<i><u>A. Starke (United Kingdom), J. Poxon, N. MacDougall</u></i>	
Dosimetric impact of introducing revised rectal constraints in 20 fraction prostate radiotherapy	PO - 1834
<i><u>I. Gleeson (United Kingdom), H. Chantler, K. Hutchinson</u></i>	
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<i><u>G. Guibert (Switzerland), B. Yanes, T. Risse, P. Weber, B. De Bari</u></i>	
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<i><u>J. Unkelbach (Switzerland), D. Papp</u></i>	
Biological optimization in proton therapy accounting for hypoxia and variable RBE	PO - 1837
<i><u>H. Henjum (Norway), T. Johnsen Dahle, C. Stokkevåg, C. Grindeland, K. Røe Redalen, H. Minn, E. Malinen, S. Pilskog, A. Mairani, K. Smeland Ytre-Hauge</u></i>	
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<i><u>J. Perez-Alija (Spain), P. Gallego, M. Barceló, C. Ansón, J. Chimeno, A. Latorre, N. Jornet, N. García, H. Vivancos, A. Ruíz, M. Adrià, P. Carrasco</u></i>	

- End-to-end Treatment Planning Optimization through Dose/Anatomy-based Metric-learning kNN Embeddings** PO - 1839
L. de Vitry (France), R. Fick, N. Bus, J. Dedieu, A. Lombard, N. Paragios
- A planning study evaluating the Advanced Collapsed cone Engine in HDR skin brachytherapy** PO - 1840
R. Stansbridge (United Kingdom), R. Caines, C. Lee
- Assessment of three software systems for the independent calculation of Eclipse HyperArc SRS plans** PO - 1841
J. Calvo-Ortega (Spain), M. HERMIDA-LÓPEZ, C. LAOSA-BELLO, S. MORAGUES-FEMENIA, J. CASALS-FARRAN
- Introduce a new rotational robust optimized Spot-scanning Proton Arc (SPArc) framework** PO - 1842
X. Ding (USA), S. Chang, G. Liu, L. Zhao, W. Zheng, A. Qin, Y. Di, X. Li
- Ultra hypofractionated extended nodal irradiation using VMAT for pelvic nodal prostate cancer** PO - 1843
F. Slevin (United Kingdom), C. Thompson, R. Speight, L. Murray, J. Lilley, A. Henry
- Adaptive dose escalation for non-small cell lung cancer patients treated with VMAT** PO - 1844
N.S. Tambe (United Kingdom), I.M. Pires, C. Moore, A. Wiczorek, S. Upadhyay, A.W. Beavis
- Regression models for predicting plan parameters of two kinds of hybrid plans for stage III NSCLC** PO - 1845
H. Wang (China)
- Experiments to validate a Mid-Position workflow: Results with two independent implementations** PO - 1846
E. Jackson (The Netherlands), D. Boukerroui, M.J. Gooding, P. Remeijer
- A novel CRT-IMRT-combined (Co-CRIM) planning technique for peripheral lung SBRT** PO - 1847
Y. Duan (China), Z. Xu
- HyperArc and RapidArc dosimetric comparison for resected brain metastases stereotactic radiotherapy** PO - 1848
R. Muni (Italy), P. Colleoni, M. Fortunato, M.I. Benfetima, C. Bianchi, M. Motta, S. Andreoli, F. Cretti, F.R. Filippone, L. Maffioletti, F. Piccoli, E. Vitali, S. Vukcaj, G. Rinaldi, L.F. Cazzaniga

- Dose accuracy improvement on H&N VMAT-FFF treatments** PO - 1849
G. Martin (Spain), E. Guibelalde del Castillo, S. Walter
- On the link between the aperture shape controller and plan complexity metrics** PO - 1850
L. Vieilleveigne (France), M. More, F.X. Arnaud, C. Khamphan, J. Saez, V. Hernandez
- Comparison of 3 techniques for left-sided breast irradiation with or without internal mammary nodes** PO - 1851
L. Bogers (The Netherlands), A. Petoukhova, J. Penninkhof, M. Mast, P. Poortmans, M. Hoogeman, H. Struikmans
- Predicting factors for differences between dose algorithms in SBRT lung patients** PO - 1852
M. Barceló-Pagès (Spain), J.M. Chimeno Hernández, A. Latorre-Musoll, P. Gallego Franco, C. Ansón Marcos, N. García Apellaniz, N. Jornet Sala, J. Perez-Alija, M. Adrià Mora, H. Vivancos Bargalló, A. Ruiz Martínez, P. Carrasco de Fez
- Assessment of the influence of shoulder movement on the Vmat plan quality in Head&Neck treatments** PO - 1853
S. Hofer (Italy), M. Maffei, P. Ferrari, S. Bou Selman, J. Waskiewicz, M. Haller
- Brachytherapy treatment planning for vaginal cylinder applicator using Deep Learning Neural Network** PO - 1854
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- Protocol compliance of two Knowledge Based models in two Geo-Ethnic populations for cervical cancer** PO - 1855
J. Swamidas (India), M. Assenholt, M. Serban, J. Jain, S. Chopra, V. Hande, S. Pradhan, K. Tanderup
- Minimizing dose to brain structures by knowledge-based planning** PO - 1856
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- Retrospective analysis of conformity and gradient indexes of lung SBRT plans** PO - 1857
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<p>Adrenal SBRT: The Effects of a Full and Empty Stomach on Radiation Dose to Organs at Risk</p> <p><u>O. Tanaka (Japan)</u>, T. Taniguchi, K. Ono, S. Nakaya, C. Makita, M. Matsuo, T. Kiryu</p>	<p>PO - 1858</p>
<p>Proposal of an imaging PTV in stereotactic planning to take into account MRI geometric distortions</p> <p><u>P. Hinault (France)</u>, P. Hinault, T. Puiseux, A. Sewonu, I. Gardin, P. Gouel, H. Souchay, R. Moreno, D. Gensanne</p>	<p>PO - 1859</p>
<p>Physical vs. biological based VMAT optimization for prostate cancer radiotherapy</p> <p><u>D. Teixeira (Belgium)</u>, A. Gulyban, S. Poeta, Y. Jourani, R. Van den Begin, F. Otte, D. Van Gestel, N. Reynaert</p>	<p>PO - 1860</p>
<p>Evaluation of VMAT-like planning technique for magnetic resonance guided radiotherapy treatment</p> <p><u>L. Placidi (Italy)</u>, M. Nardini, D. Cusumano, L. Boldrini, G. Chiloiro, A. Romano, C. Votta, M.V. Antonelli, V. Valentini, L. Indovina</p>	<p>PO - 1861</p>
<p>Revisiting whole brain radiotherapy standards: Is it time to abandon opposed lateral fields?</p> <p><u>E. Oymak (Turkey)</u>, M. Polat</p>	<p>PO - 1862</p>
<p>3D in-vivo dosimetry for novel inverse optimized 3D-CRT technique in craniospinal irradiation</p> <p><u>F. Biltekin (Turkey)</u>, G. Yazici, G. Ozyigit</p>	<p>PO - 1863</p>
<p>Dosimetric impact of the segmentation through HU threshold in head and neck treatments</p> <p>S. Pena Vaquero, <u>L. Cardoso Rubio (Spain)</u>, L. Gómez Heras, Á. del Castillo Belmonte, A.E. Hurtado Romero, M.M. Agulla Otero, C. Andrés Rodríguez, D. Miguel Pérez, I. Conles Picos, D. Alonso Hernández, R. Torres Cabrera</p>	<p>PO - 1864</p>
<p>Simultaneous integrated boost IMRT versus sequential IMRT in head and neck cancers</p> <p><u>M.I. Sharief (India)</u>, P. Ahlawat, M. Gairola, T. Erum, S. Tandon, S. Purohit, N. Sachdeva, K.S. Chufal, I. Ahmad, R.L. Chowdhary, V. Antony</p>	<p>PO - 1865</p>
<p>Clinical electron beam modulation by plastic samples produced with 3D printing approach</p> <p><u>S. Stuchebrov (Russian Federation)</u>, A. Bulavskaya, Y. Cherepennikov, A. Grigorieva, D. Kokontsev, A. Loginova, I. Miloichikova</p>	<p>PO - 1866</p>
<p>Fully-automated target delineation QA and creation of VMAT/IMRT dose optimization structures</p> <p><u>L.H. Praestegaard (Denmark)</u></p>	<p>PO - 1867</p>

First dosimetric assessment of proton minibeam arc radiation therapy	PO - 1868
<i><u>R. Ortiz Catalan (France), L. De Marzi, Y. Prezado</u></i>	
Are distal edge planning guidelines needed in proton PBS treatment planning of brain tumours?	PO - 1869
<i><u>A. Vestergaard (Denmark), J. Kallehauge, P. Lægdsmand, K. Seiersen, B. Smulders, P.W. Nyström, Y. Lassen-Ramshad, M. Høyer, O. Nørrevang, S. Korreman</u></i>	
Pretreatment selection for LAD sparing in personalized breath hold breast radiotherapy	PO - 1870
<i><u>E. Ippolito (Italy), A. Di Donato, M. Marrocco, B. Floreno, F. Giannetti, G. D'Auria, T. Gamucci, S. Ramella</u></i>	
Prospective study on the feasibility of single-fraction SABR for bone and lymph node metastases	PO - 1871
<i><u>C. Mercier (Belgium), M. Claessens, G. De Kerf, C. Billiet, I. Joye, D. Verellen, P. Ost, P. Dirix</u></i>	
Implementation of semi-automated restricted IMRT and comparison to 3DCRT and VMAT for breast cancer	PO - 1872
<i><u>C. Milewski (France), M. Chéve, N. Fournier-Bidoz, M. Lerousseau, E. Deutsch, G. Louvel, S. Rivera, G. Auzac</u></i>	
HyperArc and CyberKnife dose distribution comparison for 1, 2, and 3 brain metastases radiosurgery	PO - 1873
<i><u>A. Skrobala (Poland), W. Kijeska, M. Kruszyna-Mochalska</u></i>	
Impact of Arc length on unilateral dose volume parameters and plan delivery: A Dosimetry study	PO - 1874
<i><u>P. Agarwal (India), S.D. Pattanaik, D. Epili, A. Mukherji, S. Pradhan</u></i>	
Commissioning of an MR only dose planning paradigm for use with pelvic cancer patients	PO - 1875
<i><u>S. McIlroy (Denmark), M. Berg, H. Nissen</u></i>	
Procedure for total body irradiation (TBI) with Helical Tomotherapy	PO - 1876
<i><u>C. Ferrer (Spain), C. Huertas, R. Plaza, P. de la Monja, C. Mínguez, D. García, A. Aznar, M. Sáez</u></i>	
Conformal energy filter optimization for Bragg peak FLASH proton therapy	PO - 1877
<i><u>S. Deffet (Belgium), K. Souris, R. Labarbe, L. Hotoiu, A. Pin, E. Sterpin</u></i>	

- High quality planning technique for robust optimised VMAT in RayStation for IMC breast radiotherapy.** PO - 1878
A. Bird (United Kingdom), G. Webster
- plan complexity and delivery accuracy of dose escalation to DIL in high-risk prostate cancer** PO - 1879
K.S. Lew (Singapore), A.L.K. Ong, H.Q. Tan, W.Y.C. Koh, K.W. Ang, J.C.L. Lee, J.K.L. Tuan, S.Y. Park
- Dosimetric accuracy of dual isocenter irradiation in magnetic resonance guided radiotherapy system** PO - 1880
L. Placidi (Italy), M. Nardini, D. Cusumano, L. Boldrini, F. Catucci, G. Chiloiro, C. Votta, V. Valentini, L. Indovina
- Automatic VMAT treatment planning for left-sided breast cancer with lymph nodal involvement.** PO - 1881
K. Engström (Denmark), C. Brink, M.H. Nielsen, M. Kjellgren, K.L. Gottlieb, I. Hazell, V.N. Hansen, E.L. Lorenzen
- A preliminary dosimetric study of multiple brain metastases using HyperArc and RapidArc techniques** PO - 1882
Y. Wang (China), Z. Peng, P. Yang, Y. Liu
- Evaluation of an automated treatment planning system for head and neck treatment** PO - 1883
L. calmels (Denmark), D. Sjöström, Z. Pohl, P. Sibolt
- Determining a planning method for delivering Internal Mammary Nodal Chain radiotherapy.** PO - 1884
C. Bennett (United Kingdom), R. Bill, J. Kirk, D. Ledsom, K. Williams
- Evaluation of a hybrid 3DCRT-VMAT technique for free breathing whole breast RT during COVID-19** PO - 1885
G. Antorkas (Cyprus), P. Doolan, K. Ferentinos, N. Zamboglou
- Dosimetric Analysis of Sequential IMRT (SeB) Versus SIB for Lymph nodes in Cervical Cancer** PO - 1886
D. Aravindakshan (India), L. GURAM, R. HAZARE, S. MOHANTY, S. CHOPRA, R. KINHIKAR, U. MAHANTSHETTY
- Auto-segmentation and knowledge-based planning for radiotherapeutic palliation of spine metastases** PO - 1887
E. Jones (United Kingdom), C. Napoleone-Filho, C. Sisodia, M. Couper, V. Harris, A. Greener

- Dosimetric comparison of heart substructures for left lung cancer with 3 different radiation plans** PO - 1888
S. Aytac (Turkey), G. guler avci
- A TPS-based approach for single isocenter open-arc Total Body Irradiation in a standard size bunker** PO - 1889
E. Villaqgi (Italy), A. Terulla
- Dosimetric comparison of modern auto-planning solutions for SRS of multiple brain metastases** PO - 1890
M. Grohmann (Germany), M. Todorovic, C. Petersen
- Dosimetric impact of personalized vs PORTEC-4a vagina contouring on postop endometrial brachytherapy** PO - 1891
J.P. Rochera Alba (Spain), H.M. Antonio, B. José, R.C. Angeles, B.M. Clara
- Prediction of PTV coverage for LINAC SABR Prostate 36.25Gy/5# from OARs overlap with PTV** PO - 1892
M. Kroiss (United Kingdom)
- The dosimetric effect of varying seroma during proton and photon therapy in breast cancer patients** PO - 1893
E.R. Skarsø (Denmark), L.H. Refsgaard, L.B. Stick, B.V. Offersen, S.S. Korreman
- Comparison of Intra Operative and Post Implant Plans for Low Dose Rate Prostate Brachytherapy** PO - 1894
Ö. Senkesen (Turkey), H. Küçük, E.O. Göksel, E. Tezcanli, Z. Özen, S. Küçük, G. Kemikler, R. Dişçi, I. Aslay
- Is the traditional dose prescription concept still relevant in modern SABR?** PO - 1895
M. Robinson (United Kingdom), B. George, A. Nash, S. Teoh, A. Gaya, P. Camilleri, S. Mukherjee, J. Good
- Feasibility of mastication-structure-sparing radiation therapy for head and neck cancer** PO - 1896
C. Olsson (Sweden), I. Raunert, N. Pauli, L. Tuomi, C. Finizia, N. Pettersson
- Prone vs. supine neoadjuvant accelerated partial breast irradiation on an MR-linac: a planning study** PO - 1897
M. Groot Koerkamp (The Netherlands), F. van der Leij, T. van 't Westeinde, G. Bol, V. Scholten, R. Bouwmans, S. Mandija, D. van den Bongard, A. Houweling

- Trade-off between microscopic disease and OARs in automated VMAT planning for head-and-neck cancer** PO - 1898
L.P. Kaplan (Denmark), A.I.S. Holm, J.G. Eriksen, B.J.M. Heijmen, S.S. Korreman, L. Rossi
- Hippocampal Dose Sparing in Nasopharyngeal Carcinoma Patients** PO - 1899
C. Abraham (United Kingdom), O. Nicholas, R. Lewis, A. Selby, H. Wong, R. Hugtenburg
- TPS Scripting to automate the prostate treatment planning process: does it reduce plan quality?** PO - 1900
S. Hofer (Italy), M. Maffei, P. Ferrari, J. Waskiewicz, M. Haller
- A semi-automatic 3D printable bolus design workflow for use in electron radiotherapy of the skin** PO - 1901
R. van Leeuwen (The Netherlands), T. Lam, P. van Herpen, R. Monshouwer
- Treating left-sided breast patients in breath hold using a real time surface tracking system** PO - 1902
Y. Zhao, B. Tang, J. Li, P. Wang (China), X. Liao, X. Yao, X. Xin, L.C. Orlandini
- Building and comparing treatment quality assessment algorithms among two different clinics** PO - 1903
A. Scaggion (Italy), S. Bresciani, M. Fusella, A. Galla, M.A. Rossato, M. Sepulcri, M. Pausco, B. El Khouzai
- Commissioning HyperArc for Single Targets including Benign Tumours** PO - 1904
D. Egleston (United Kingdom), R. Brass
- Combined proton-photon treatment for breast cancer using a fixed proton beamline** PO - 1905
L. Marc (Switzerland), S. Fabiano, N. Wahl, C. Linsenmeier, A. Lomax, J. Unkelbach
- Biologically Adaptive Dose Escalated Radiotherapy in Oropharynx Cancers: A Treatment Planning Study** PO - 1906
R. Valentine (United Kingdom), C. Paterson, L. Grocutt
- The influence of lobe-based optimization on different LN delineations for operable LA-NSCLC patients** PO - 1907
H. Gu (China), Z. Xu

- Inverse planning in Gamma Knife radiotherapy for benign tumors** PO - 1908
M. Spaniol (Germany), S. Mai, T. Zakrzewski, M. Ehmann, F. Stieler
- Improving plan quality and reducing workload for whole breast irradiation: a semi-automatic approach** PO - 1909
L. Marrazzo (Italy), S. Calusi, I. Meattini, D. Raspanti, C. Arilli, M. Casati, A. Compagnucci, C. Talamonti, M. Zani, I. Desideri, L. Livi, S. Pallotta
- Proton therapy in breast cancer: how do different beam arrangements affect linear energy transfer?** PO - 1910
S. Settaree (United Kingdom), A. Bertolet, A. Carabe, D. Lines, N. Harrold, E. Harris, A.M. Kirby, S. Gulliford
Track: Radiobiology
- Digital Poster: Radiobiology of normal tissues**
-
- Low-dose irradiation could mitigate osteoarthritis progression by modulating mitochondrial function** PO - 1911
B.H. Kim (Korea Republic of), H.C. Bae, J. Kwon, H. Han, H.J. Kim
- Feasibility study on stereotactic radiotherapy for total pulmonary vein isolation in a canine model** PO - 1912
J.H. Chang (Korea Republic of)
- Effects of Nigella sativa oil and thymoquinone on radiation-induced oxidative stress in rat kidney** PO - 1913
Withdrawn
- Early changes in rat heart after high dose irradiation** PO - 1914
J.H. Chang (Korea Republic of)
- Macrophages subpopulations in stereotactic radiation-induced lung injury in mice.** PO - 1915
S. Braga-Cohen (France), M. Dos Santos, J. Baijer, F. Milliat, A. François
- Low-dose lung radiotherapy for COVID-19 pneumonia: preclinical studies in bleomycin pneumonitis** PO - 1916
A. Chalmers (United Kingdom), M. Jackson, K. Stevenson, S. Chahal, E. Curley, G. Finney, R. Gutierrez-Quintana, E. Onwubiko, A. Rupp, K. Strathdee, M. MacLeod, C. McSharry

Circadian rhythm effects on radiotherapy toxicity PO - 1917

C. Talbot (United Kingdom), A. Webb, E. Harper, D. Azria, A. Choudhury, D. De Ruyscher, A. Dunning, R. Elliott, S. Kerns, M. Lambrecht, T. Rancati, B. Rosenstein, P. Seibold, E. Sperk, A. Vega, L. Veldeman, J. Chang-Claude, C. West, T. Rattay, R.P. Symonds

Studying radioinduced damage to microvasculature through 3D in-vitro models PO - 1918

T. Rancati, L. Possenti (Italy), L. Mecchi, A. Cicchetti, C. Arrigoni, D. Petta, S. Bersini, R. El Bezawy, V. Doldi, T. Giandini, C. Stucchi, M.L. Costantino, M. Moretti

Track: Radiobiology

Digital Poster: Radiobiology of stem cells (cancer and normal tissue)

-

Non-thermal plasma enhances the sensitivity to radiation in human colon cancer cells PO - 1919

X. Zhu (China), Y. Li, Y. Liu

Track: Radiobiology

Digital Poster: Radiobiology of particles and heavy ions

-

Inhibition of Wnt signalling by XAV939 enhances radiosensitivity in human cervical cancer HeLa cells PO - 1920

H. Zhang (China)

Track: Radiobiology

Digital Poster: Radiation-induced signalling pathways

-

Radiosensitizing effect of Trabectedin on human soft tissue sarcoma cells PO - 1921

M. Aquilano (Italy), G. Salvatore, M. Loi, D. Greto, E. Scoccimarro, L.P. Ciccone, G. Stocchi, V. Salvestrini, C. Santini, M. Sottili, M. Mangoni, L. Livi

Track: Radiobiology

Digital Poster: Tumour microenvironment

-

Classification of prostate cancer by hypoxia-related histological features in patient samples PO - 1922

V.E. Skingen (Norway), T. Hompland, U.B. Salberg, C. Sæten Fjeldbo, E. Aarnes, L. Vlatkovic, K.H. Hole, T. Seierstad, H. Lyng

Exosomes in postoperative wound microenvironment of patients with breast cancer treated with IORT PO - 1923

K. Kulcenty (Poland), M. Lach, I. Piotrowski, W. Suchorska

Exploring the association between radiomics and gene expression in bladder cancer: a pilot study PO - 1924

Y.P. Song (United Kingdom), T. Elumalai, H. Mistry, K. Reeves, B. Lane, M. Dubec, S. Jackson, C. West, P. Hoskin, A. Choudhury, A. McWilliam

In vitro characterisation of the bacteria-derived hypoxia-selective cytotoxin BE-43547 PO - 1925

M. Busk (Denmark), P. Eggertsen, J. Overgaard, M.R. Horsman, K.M. Jacobsen, T. Tørring, T.B. Poulsen

Track: Radiobiology

Digital Poster: Immuno-radiobiology

-

Enhanced local tumour control by combining proton radiation and immunotherapy PO - 1926

M. Horsman (Denmark), S. Nielsen, M. Sitarz, M. Høyer, B. Sørensen

Track: Radiobiology

Digital Poster: Radiation and tumour metabolism

-

Disulfiram radiosensitizes hypoxic human colorectal cancer through inhibition of PHGDH PO - 1927

M. Van De Gucht (Belgium), I. Dufait, H. Jiang, C. Corbet, S. de Mey, H. Wang, H. Vandenplas, K.L. Law, T. Gevaert, O. Feron, M. De Ridder

Radiation cooperates with modulation of serine in human hypoxic colorectal cancer cells. PO - 1928

M. Van De Gucht (Belgium), I. Dufait, E. Demesmaeker, H. jiang, C. Corbet, S. de Mey, H. Vandenplas, K.L. Law, T. Gevaert, O. Feron, M. De Ridder

Track: Radiobiology

Digital Poster: DNA damage response

-

Identification of DNA repair-based biomarkers related to treatment outcome in head and neck cancers PO - 1929

G. Muggioli (France), S. Libert, B. Treillard, G. Alfonse, P. Philouze, C. Rodriguez-Lafresse, A. Lauret, P. Ceruse, C.A. Righini, S. Sauvaigo

Plasmid DNA damages after FLASH vs conventional dose rate irradiations in various oxygen conditions PO - 1930

N. Cherbuin (Switzerland), J. Ollivier, P. Jorge, V. Grilj, F. Chappuis, L. Desorgher, C. Bailat, F. Bochud, J.A. Jorge Pires, M. Vozenin

Identifying resistance mechanisms in breast cancer in patient-derived organoids and 3D cell culture PO - 1931

S. Classen (Germany), E. Rahlf, C. Petersen, K. Rothkamm, M. Toulany, N. Cordes, K. Borgmann

Cell cycle arrest induced by AsiDNA in normal cells: a possible mechanism for radioprotection? PO - 1932

Withdrawn

Track: Radiobiology

Digital Poster: Radiation response biomarkers

-

Can baseline or Ra-223-induced changes in the plasma predict progressive disease mCRPC patients? PO - 1933

S. Lunj (United Kingdom), Y.P. Song, A. Hudson, K. Patel, H. Nightingale, T. Smith, P. Hoskin, R. Bristow, C. West, A. Choudhury

T2w-MRI with pilocarpine administration for monitoring salivary gland function after irradiation PO - 1934

O. Zlygosteva (Norway), I. S. Juvkam, H. K. Galtung, T. M. Sjøland, N. F. J. Edin, E. Malinen

Clinical outcomes and radio-biological features correlation in early PCa: an exploratory analysis PO - 1935

G. Corrao (Italy), G. Marvaso, M. Zaffaroni, C.I. Fodor, S. Volpe, L. Bergamaschi, D. Zerini, A. Vingiani, G. Petralia, S. Alessi, P. Pricolo, G. Renne, R. Orecchia, B.A. Jereczek-Fossa

Performances of a binary blood assay for predicting radiosensitivity PO - 1936

S. Deneuve (France), C. Mirjolet, T. Bastogne, M. duclos, P. Retif, P. Zrounba, P.E. Roux, M. Poupart, G. Vogin, N. Foray, S. Pereira

Tumours have a sex: relevance to the multifunctional oncoprotein Y-box binding protein-1 PO - 1937

L. Mariagnol (Ireland), S. Croghan, P. Rohan, R. Manecksha, T. Lynch

Track: RTT

Digital Poster: Patient preparation, positioning and immobilisation

-

- Behind the mask: an overview of immobilisation equipment for Surface Guided Radiotherapy** PO - 1938
C. Dunlea (United Kingdom), T. Patel, Y. Ch'ing Chang
- The Effect of BMI on the Positional Error in Radiotherapy with Prone Breast Fixator Placement** PO - 1939
Y. You (China), X. Li, Z. Cui, Y. Yin
- Variation in bladder filling for cervical cancer patients undergoing radical radiotherapy** PO - 1940
C. Nelder (United Kingdom), R. Chuter, J. Berresford, R. Benson, A. Clough, L. McDaid, L. Barraclough, K. Haslett, P. Hoskin, A. Choudhury, A. Choudhury, C.L. Eccles
- Use of Chabner XRT® Radiation Bra in a large-breasted patient: a case report** PO - 1941
F. Cucciarelli (Italy), E. Arena, C. Di Carlo, F. Fenu, V. Panni, L. Vicenzi, M. Parisotto, F. Patani, M. Valenti, G. Mantello
- Application of SGRT in Prone Cervix Positioning** PO - 1942
Z. Cui (China), X. Li, J. Xie, J. Zhu, C. Liu, Z. Li, P. Liu, Y. Wang, Y. Yin
- Radiotherapy for the vulvar region in frog-leg position: improving reproducibility and comfort.** PO - 1943
W. De Vos (Belgium), L. Van den Berghe, L. Paelinck, S. Vansteenkiste, B. Depaepe, S. Lauwers, J. Mortier, E. De Rijcke, A. Van Damme, K. Vandecasteele
- experience of SGRT implementation** PO - 1944
D. Mychko (Belarus), E. Zvereva, S. Siamkousky
- SGRT Positioning Accuracy and Consistency in Mastectomy Patients in terms of ROI and Immobilization** PO - 1945
J. Li (China), S. Yu, Y. Du, S. Zhou, H. Yue, M. Wang, J. Yang, H. Wu, T. Li
- Track: RTT*
- Digital Poster: Imaging acquisition and registration, OAR and target definition**
 -
- An incremental learning-based model for organ at risk in cervical cancer multi-scene radiotherapy** PO - 1946
D. Qian (China), Z. Zhang, R. Zhou, R. Wang, S. Wu, S. Wang, Z. Yang

catching opportunity from voxel evaluation of follow-up PET/CT imaging in SBRT of lung lesions. PO - 1947

F. Cavallo (Italy), L. Capone, N. Gennuso, G. Abate, G. Grimaldi, S.A. Allegretta, I. Russo, P. Gentile

comparison between the use of PET-CT and high-field MRI 3.0T in adenoid cystic carcinoma PO - 1948

L. Anemoni (Italy), A. Mancin, L. Preda, M.S. Cadeo, I.E. Mascayano, S. Tampellini, E. Orlandi

Image registration guidelines impact on radiographer inter-observer variability for cervical cancer PO - 1949

R. Benson (United Kingdom), J. Rodgers, C. Nelder, A. Clough, J. Parker, L. Davies, R. Bailey, J. McMahon, H. Kolbe, E. Pitt, B. Dobby, A. Cree, M. Dubec, A. Choudhury, C. Eccles

Added value of FDOPA PET to radiotherapy of glioblastoma multiforme: Single institution experience PO - 1950

D. Sipos (Hungary), Z. Laszlo, Z. Toth, P. Kovacs, A. Gulyban, I. Repa, A. Kovacs, F. Lakosi

Comparison between the use of PET and MRI 3.0 T in meningiomas PO - 1951

L. Anemoni (Italy), M.S. Cadeo, A. Mancin, I.E. Mascayano, L. Preda, S. Tampellini, E. Orlandi

Quantification of MRI distortion in patients with metallic hip prosthesis: a feasibility study PO - 1952

L. McDaid (United Kingdom), A. Clough, R. Benson, C. Nelder, J. McMahon, M. Aznar, A. Choudhury, S. Jackson, C. Eccles

Track: RTT

Digital Poster: Treatment planning and dose calculation/QC and QA

-

Investigation of the effect of minimized tumor volumes on critical organ doses in GBM radiotherapy PO - 1953

M.C. Şahin (Turkey), İ. Kaya, İ.D. Cingöz, E. Bozoğlan, K. Manisa, Z.A. Palabıyık, N. Yüceer

DIBH radiotherapy in left breast cancer: Positional accuracy and assessment of dose reduction to OAR PO - 1954

H. Hayakawa (Japan), T. Kurita, T. Nagano, S. Okada, C. Makita, Y. Kajiuura, M. Matsuo

OAR dose constraints consensus in hypofractionated breast cancer radiotherapy is urgently needed! PO - 1955

R. Ben Amor (Tunisia), M. Bohli, D. Aissaoui, J. Yahiaoui, A. Hamdoun, L. Kochbati

- Effect of heart dose reduction by IMRT for postmastectomy radiation therapy** PO - 1956
K. Ono (Japan)
- Monte Carlo-based independent verification of online adaptive SBRT plans for prostate** PO - 1957
S. Moraques-Femenía (Spain), C. Laosa-Bello, J. Calvo-Ortega, J. Casals-Farran
- Parotid gland dose reduction in the hippocampus avoidance whole-brain radiotherapy** PO - 1958
H. Shimizu (Japan), K. Sasaki, T. Aoyama, H. Tachibana, Y. Koide, T. Iwata, T. Kitagawa, T. Kodaira
- Intensity modulated proton therapy plans for left-sided breast cancer patients with pectus excavatum** PO - 1959
A. Gullhaug (Norway), D. Høyenes, V. Vingelsgård, D. Tor-Ove, J. Senum, J.G. Svestad
- Track: RTT*
- Digital Poster: Image-guided radiotherapy and verification protocols**
-
- Setup error-related dosimetric uncertainties on GTV in SBRT** PO - 1960
Y. Jeong (Korea Republic of), J.G. Oh, K.K. Lee, S.R. Moon
- The effect of 4DCT vs. 3DCT simulation on the positioning accuracy for lung cancer radiotherapy** PO - 1961
Y. Wang (China), P. Yang, Y. Liu
- Impact of different immobilization systems on setup accuracy for radiotherapy of BCT vs. PMRT** PO - 1962
P. Yang (China), Z. Peng, D. Li, X. Li, Z. Zhang, Y. Wang, Y. Liu
- Impact of treatment delivery time on rectal volume and toxicity during SBRT prostate radiotherapy.** PO - 1963
J. mitchell (United Kingdom), J. Wright , S. Adamson, D. McLaren , B. Nailon
- Pre- and on-treatment rectal cancer target volume variations for tumor and involved lymph nodes.** PO - 1964
D.T. Arp (Denmark), A.L. Appelt, M.S. Nielsen, R. Mikalone, L.Ø. Poulsen

- Investigating the impact of Day Zero SABR appointments and role of the Therapy Radiographer (RTT)** PO - 1965
A. Webster (United Kingdom), K. Jones, R. Steel
- Intrafractional organ motion in cervical carcinoma brachyradiotherapy : Dosimetric impacts** PO - 1966
P. Marolt (Slovenia), R. Hudej, B. Šegedin, H.B. Zobec Logar, M. Kobav
- Identifying the collision zone in breast radiotherapy verification and isocentre placement** PO - 1967
J. Motlib (United Kingdom), S.A.A. Moinuddin, S. Wickers
- Track: RTT
- Digital Poster: Motion management and adaptive strategies**
 -
- Potential reduction of NTCP using plan of the day for bladder cancer** PO - 1968
S. Talozzi (Sweden), I. Bengtsson, N. Svanberg, A. Gunnlaugsson, E. Wieslander, J. Scherman
- The contribution of on-board hybrid MRI for planning optimization: movement analysis of the uterus** PO - 1969
C. Votta (Italy), L. Boldrini, B. Merola, G. Chiloiro, A. Romano, D. Cusumano, G. Turco, M. Bianchi, P. Cornacchione, L. Indovina, M.A. Gambacorta, V. Valentini
- 4D-CBCT (Symmetry Elekta X-ray) for ITV generation in thoracic stereotactic radiotherapy** PO - 1970
S. Marcucci (Italy), L. Caravatta, C. Rosa, M. Nuzzo, M. Di Tommaso, M. Taraborrelli, C. Di Carlo, F.C. Di Guglielmo, L. Gasparini, N. Adorante, D. Genovesi
- Patient experience and gating efficiency using a visual tracking system for breath hold during MRgRT** PO - 1971
N. Weitkamp (Switzerland), S. Ehrbar, M. Chamberlain, S. Perryck, T. Rudolf, L. Wilke, H.I. Garcia Schüler, S. Tanadini-Lang, M. Guckenberger, N. Andratschke
- DIBH for mediastinal lymphoma: Implementation and evaluation of a 5-year service** PO - 1972
K. Jones (United Kingdom), A. Webster, G. Ntentas, J. Brady, N.G. Mikhaeel
- Quantification of liver and patient shape changes with abdominal compression on the MR-Linac.** PO - 1973
M. Daly (United Kingdom), R. Benson, R. Chuter, A. Clough, L. McDaid, A. McWilliam, C. Nelder, G. Radhakrishna, A. Choudhury, C. Eccles

- The use of in-vivo dosimetry to detect head and neck cancer patients needing adaptive radiotherapy** PO - 1974
Y.A.C. Fiagan (Belgium), D. Nevens, E. Bossuyt, M. Machiels , I. Chiari , I. Joye , M. Paul , T. Gevaert , D. Verellen
Track: RTT
Digital Poster: Patient care, side effects and communication
-
- The use of mHealth apps in interactive health literacy – perspectives from healthcare professionals.** PO - 1975
A. Stewart-Lord (United Kingdom), S. Sykes, A. Admani, C. Angell-Wells, R. Williams , Y. Tsang, R. Johnson
- Has the Covid-19 Pandemic increased willingness to engage with remote collection of outcome data?** PO - 1976
C. Jackson, L. Allington, Y. Chang, J. McClelland, S. Gulliford (United Kingdom)
- The importance of psycho-social support during radiotherapy treatments** PO - 1977
J. Papp (Hungary), M. Simon, E. Csiki, Á. Kovács
- Chronic and cosmetic toxicity in patients undergoing radiotherapy and breast reconstruction** PO - 1978
J.A. Gomez Ramos (Spain), M. Arenas, F. Castaño, E. Gomez, C. Aparicio, J. Acosta, P. Araguas, B. Malave, M. Pazos
- The association between radiotherapy doses to bone marrow and fatigue in prostate cancer** PO - 1979
A. Alshamrani (United Kingdom), M. Aznar, B. Rowland, P. Hoskin, A. Choudhury, C. Eccles
- Use of Patient Reported Outcome (PRO) to facilitate patient-centered communication in radiotherapy** PO - 1980
A. Kristensen (Denmark), D. Winther, R. Baltzer
- Dosimetric predefinit factors of acute skin toxicity after hypofractionated breast irradiation** PO - 1981
M. bohli (Tunisia), R. Ben Amor, D. Aissaoui, J. Yahyaoui, A. Hamdoun, L. Kochbati
- Dosimetric and clinical outcome in image guided interstitial brachytherapy for cervical stump cancer** PO - 1982
F. Guillemin (France), P. POMMIER, A. SERRE, F. GASSA, N. SANDT, F. LAFAY

Radiosurgery (SRS) in spinal metastatic (SM). Result of a hospital center. PO - 1983
R. Rubiato Araqón (Spain), M.S. Talaya Alarcon, D. Hernandez Gonzalez, M.T. Murillo Gonzalez

Early toxicity with stereotactic body radiation therapy for prostate cancer PO - 1984
J. Saavedra Bejarano (Spain), M. Rubio Jiménez, G. Campos Rivera, M. Ortiz Seidel, H. Miras del Río, A. Illescas Vacas

Long-term results in CNS paediatric tumors: Stereotactic Radiotherapy and Reirradiation PO - 1985
A.G. Rosa (Spain), R. Carmen, H. Ovidio, C. Xin, A. Leyre, G.D.A. Paz, G. Juan, C. Raquel, A. Beatriz, V. Jeannette, O. Marta, M. Isabel, M. Angel, S. Emilio, L. Mercedes, G. Mariola, N. Mónica, G. Susana, S. M^a Jesús, P. Francisco, L. Blanca

Early toxicity with stereotactic body radiation therapy for prostate cancer PO - 1986
J. Saavedra Bejarano (Spain), M. Rubio Jimenez, P. Vicente Ruiz, M. Ortiz Seidel, M. Márquez García-Salazar, A. Illescas Vacas

Track: RTT

Digital Poster: Education and training/role development

-

Developing an in-house adaptive radiotherapy training package for therapeutic radiographers PO - 1987
M. Rashid (United Kingdom), S. Reinlo, C. Shelley, L. Conway

Designing a radiation therapy technologist training program for online adaptive Radiation Therapy PO - 1988
A. Nielsen (Denmark), K. Lundgaard, K. Jacobsen, K. Hansen, K. Søltøft, L. Sten, L. Gullander, P. Sibolt, L. Calmels, L. Andersson, P. Geertsen

The impact, challenges and barriers of Advanced and Consultant Practice in therapeutic radiography PO - 1989
L. Caulfield (United Kingdom)

Remote RTT training in an international context during a global pandemic PO - 1990
A. Leong (New Zealand), K. Reid, I. YueYin, C. Smith

Track: RTT

Digital Poster: Risk management/quality management

-

Impact of evaluation-decision form in lung cancer patients receiving stereotactic body radiotherapy PO - 1991

R. Bultijnck (Belgium), A. Van Damme, F. Vanhoutte, E. Elamin, K. Vandecasteele, P. Berkovic, M. van Eijkeren, Y. Lievens

Development of an application programming interface for quality assurance of card check process. PO - 1992

E.P.P. Pang (Singapore), C.S. Wong, F.C.L. Ngoi, Y.B. Omar, S.A. Gan

Decision support for radiotherapy resource planning around vacation periods using a simulation model PO - 1993

J. Lindberg (Sweden), M. Gurjar, P. Holmström, S. Hallberg, T. Björk-Eriksson, C. Olsson

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