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MR in RT

10th SYMPOSIUM

APRIL 3-5, 2024

FONDAZIONE POLICLINICO UNIVERSITARIO "A. GEMELLI"
IRCCS

CENTRO CONGRESSI EUROPA
LARGO FRANCESCO VITO, 1
ROME - ITALY

SCIENTIFIC COORDINATORS: LUCA BOLDRINI, LORENZO PLACIDI



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ESTRO



Associazione Italiana
Radioterapia e Oncologia clinica



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08:00 - 09:00 Registration

09:00 - 09:20 Institutional greetings (E. Sala, M.A. Gambacorta, M. De Spirito, Italy)

SESSION 1 – INTRODUCTION TO MRI IN RT

Chairs: Maria Antonietta Gambacorta (IT), Marco De Spirito (IT)

09:20-09:40 Building clinical value with MRI in cancer care (E. Sala, Italy)

09:40-10:00 MRI based radiotherapy: clinical principles (S. Corradini, Germany)

10:00-10:20 MRI based radiotherapy: physics principles (F. Mahmood, Denmark)

10:20-10:40 How physicists see the future of MRI (U. van der Heide, The Netherlands)

Selected proffered papers:

- 10:40-11:00
- “Auto-segmentation for adaptive fractionated MRgRT using personalized deep learning models” (M. Kawula)
 - “First MRI-guided adaptive radiotherapy on a C-arm linear accelerator” (S. Fabiano)
-

11:00-11:15 *Coffee Break*

SESSION 2 – BIOMARKERS IN MRI

Chairs: Gian Carlo Mattiucci (IT), Stefanie Corradini (DE)

11:15-11:35 MRI biomarkers in clinical trials: challenges and solutions (P. van Houdt, The Netherlands)

11:35-11:55 MRI radiomics for radiotherapy (N. Dinapoli, Italy)



SESSION 3 - PROFFERED PAPERS 1

Chairs: James Balter (USA), Piercarlo Gentile (IT)

11:55-12:55

- "PET/MR imaging biomarkers of radioresistance in anal cancer patients" (T. Hillestad)
- "Superior prognostic value of diffusion MRI over standard clinical information in pancreatic cancer" (A. L. H. Bisgaard)
- "Clinical validation of a prognostic preclinical MR imaging biomarker for radiotherapy outcome in head-and-neck cancer" (R. Winter)
- "Towards Quantitative Assessment of Early Radiation Therapy Response of Glioblastoma Multiforme (GBM) Using Quantitative Heterogeneity Diffusion Imaging (HDI)" (T. Zhu)
- "Finding MR-based ventilation and perfusion parameters predictive of radiation-induced pneumonitis in lung cancer patients at a 0.35 T MR-linac" (R. Klaar)
- "Comparison of Deltaradiomic Models for Prediction of Pancreatic Tumor Response Following Magnetic Resonance-Guided SBRT" (J. C Ford)

12:55-14:00

Lunch

SESSION 4 – CLINICAL OVERVIEW OF MRI TOOLS AND MRIGRT: PART 1

Chairs: Giuseppe Minniti (IT), Alessandra Castelluccia (IT)

14:00-14:20

MRI tools for RT in CNS malignancies (S. Gaudino, Italy)

14:20-14:40

MRI tools for RT in H&N malignancies (A. Vidiri, Italy)

14:40-15:00

MRIGRT for CNS and H&N malignancies (R. Jena, UK)

15:00-15:20

MRIGRT for upper gastro intestinal malignancies (M. Chuong, USA)



SESSION 5 – CLINICAL OVERVIEW OF MRI TOOLS AND MRIGRT: PART 2

Chairs: Luigi Natale (IT), Elia Lombardo (DE)

15:20-15:40 MRI tools for RT in lower gastro intestinal malignancies (A. Laghi, Italy)

15:40-16:00 MRIGRT for lower gastro intestinal malignancies (G. Chiloiro, Italy)

16:00-16:20 MRI tools for RT in pelvic malignancies (S. Nougaret, France)

16:20-16:40 MRIGRT in pelvic malignancies (F. Alongi, Italy)

Selected proffered papers:

- 16:40-17:00
- “Multiomics MR guided radiotherapy optimization in locally advanced rectal cancer: the MOREOVER Study.” (I. Costamagna)
 - “Quality of life and toxicity in patients with pancreatic adenocarcinoma treated on a 1.5T MR-Linac ” (L. Daamen)

SPONSORED LECTURE: SESSION 1

Chair: Matteo Nardini (IT)

17:00-17:10 MRI for Radiation Therapy – The key to personalized RT – Contribution from Siemens Healthineers (N. Pineda Alonso)

17:10-17:20 Sun Nuclear: Your Trusted Partner for Patient Safety – Contribution from Mirion (A. Giallombardo)

17:20-17:30 MRI, guided radiation therapy and the quest for minimal treatment margins – Contribution from RADIUS (J. Dempsey)





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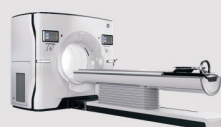
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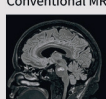
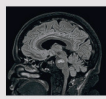
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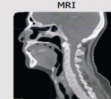
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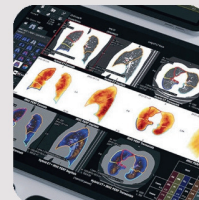
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08:30-09:00

Teaching Lecture: Quantitative MRI in radiotherapy: AI tools for parameter estimation (O. Gurney-Champion, The Netherlands)

SESSION 6 - PROFFERED PAPERS 2

Chairs: Giuditta Chiloire (IT), René Winter (NO)

09:00-10:20

- "Patterns of failure: MR-guided analysis of recurrence location after radiotherapy for head-and-neck cancer patients" (C. Raaijmakers)
- "Fully automated quality assurance for Magnetic-resonance-imaging in MR-guided-radio-therapy" (C. Beyer)
- "Diffusion-weighted imaging at a low-field MR-linac: repeatability of brain apparent diffusion coefficient measurements" (M. Rabe)
- "Towards MRI-only proton therapy for primary brain tumour patients: generating synthetic SPR maps from MRI using deep learning" (E. Alvarez-Andres)
- "Unveiling Bladder Surface Dose-Effect Relations for Acute Genitourinary Toxicity in Prostate Cancer MR-guided Radiotherapy" (Y. Lao)
- "Towards adaptive MR-integrated proton therapy for hepatocellular carcinoma" (F. Lebbink)
- "Prostate volume change during moderately hypo-fractionated RT assessed by artificial intelligence" (R. Lübeck Christiansen)
- "Response Prediction via Apparent Diffusion Coefficient Trend in Locally Advanced Rectal Cancer Patients Receiving Short Course Radiotherapy" (J. Pham)

SESSION 7 – Competing solutions for MRlgRT: DISCUSSION

Chair: Vincenzo Valentini (IT)

10:20-10:50

What's out in the market competing or surrogate of MRlgRT?
Shooters: Giulio Iachetti (IT), James Good (UK)

10:50-11:20

Coffee Break



SESSION 8 – FROM PRE-CLINICAL EVIDENCE TO AI

Chairs: Luca Tagliaferri (IT), Lorenzo Placidi (IT)

11:20-11:40	Evidence for biological MRI in RT (H. Lyng, Norway)
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11:40-12:00	The long history of MR guidance in brachytherapy (C. Kirisits, Austria)
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12:00-12:20	AI applications in MRIgRT (D. Cusumano, Italy)
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12:20-12:40	QA for quantitative MRI: DWI (L. Altabella, Italy)
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	Selected preferred papers:
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|-------------|---|
| 12:40-13:00 | <ul style="list-style-type: none"> • "Quality assurance of slice thickness in motion-compensated MRI using a novel moving phantom insert" (F. van Gameren) • "MR-guided stereotactic ablative body radiotherapy (MRgSABR) in thoracic tumours" (E. Moreno-Olmedo) |
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13:00-14:00	<i>Lunch</i>
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SESSION 9 – MRI GUIDED PROTON THERAPY

Chairs: Daniela Thorwarth (DE), Giovanna Gagliardi (SW)

14:00-14:20	MRI guided proton therapy: prototype development and dosimetry (A. Hoffman, Germany)
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14:20-14:40	MRI-only based for particle therapy: planning, beam visualization and range verification (Y. Zhang, Switzerland)
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	Selected preferred papers:
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|-------------|---|
| 14:40-15:00 | <ul style="list-style-type: none"> • "MR-integrated proton therapy – the new pinnacle in precision radiotherapy?" (E. Troost) • "Installation and acceptance testing of a whole-body rotatable in-beam MRI system for real-time MRI-guided proton therapy" (S. Schneider) |
|-------------|---|



SESSION 10 - PROFFERED PAPERS 3

Chairs: Guillaume Landry (DE), Luca Boldrini (IT)

15:00-16:00

- "Transformers for real-time 2D target tracking in MRI-guided radiotherapy" (E. Lombardo)
- "Fast high-definition 4D MRI using 3D radial koshball acquisition with isotropic resolution and deep learning reconstruction " (V. Murray)
- "Efficient motion-compensated VMAT deliveries on the 1.5T Unity MR-linac" (P. Borman)
- "First demonstration of simultaneous delivery of raster-scanned clinical proton, helium and carbon ion treatment plans and real-time MR-imaging" (K. Milewski)
- "4D-MRI with Cartesian spirals: An alternative to radial imaging for online adaptive MR-guided radiotherapy" (B. Lecoeur)
- "MR signature matching (MRSIGMA) with adaptive motion learning for robust real-time 4D MRI on a MR-LINAC" (S. Saad Siddiq)

16:00-16:20

Coffee Break

SESSION 11 – MOTION MANAGEMENT AND MOVABLE TARGETS

Chairs: Davide Cusumano (IT), Faisal Mahmood (DK)

16:20-16:40

4D MRI and Motion management tools in MRIGRT (M. Fast, The Netherlands)

16:40-17:00

Selected proffered papers:

- "Kalman filter-based tracking of abdominal organ motions along the medial axis" (H. Veeraraghavan)
- "Intrafraction target motion during online adaptive radioablation of locally advanced pancreatic cancer on a 1.5 T MRI-linac" (U. Bernchou)

SPONSORED LECTURE: SESSION 2

Chair: Angela Romano (IT)

17:00-17:10

AI-Powered MR Precision Radiotherapy – Contribution from Therapanacea (N. Paragios)

17:10-17:20

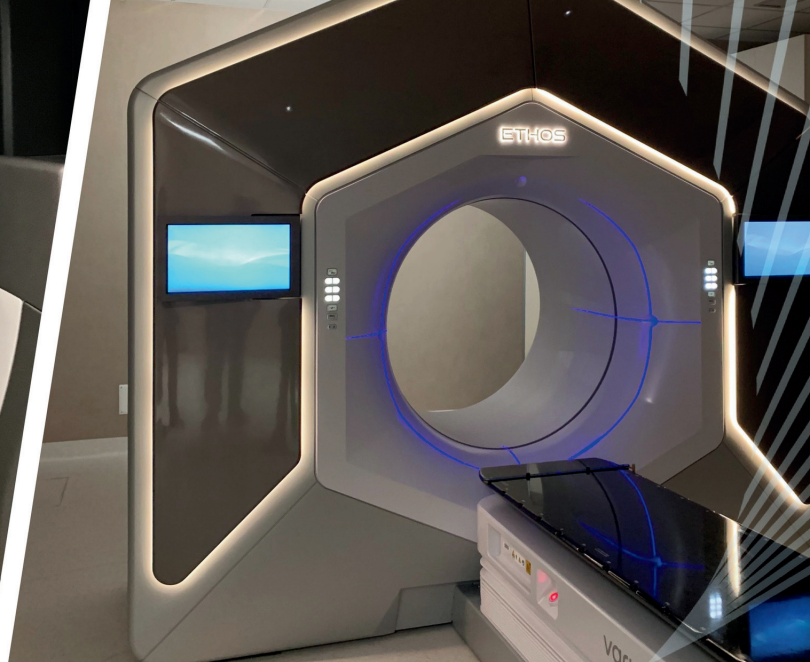
New indications and treatment strategies with Comprehensive Motion Management – Contribution from Elekta (F. Alongi, M. Saracen)

17:20-17:30

Philips latest MR in RT innovations – Contribution from Philips (M. Kruiskamp)

19:00 CONFERENCE WELCOME COCKTAIL AT THE EUROPA CONFERENCE CENTRE





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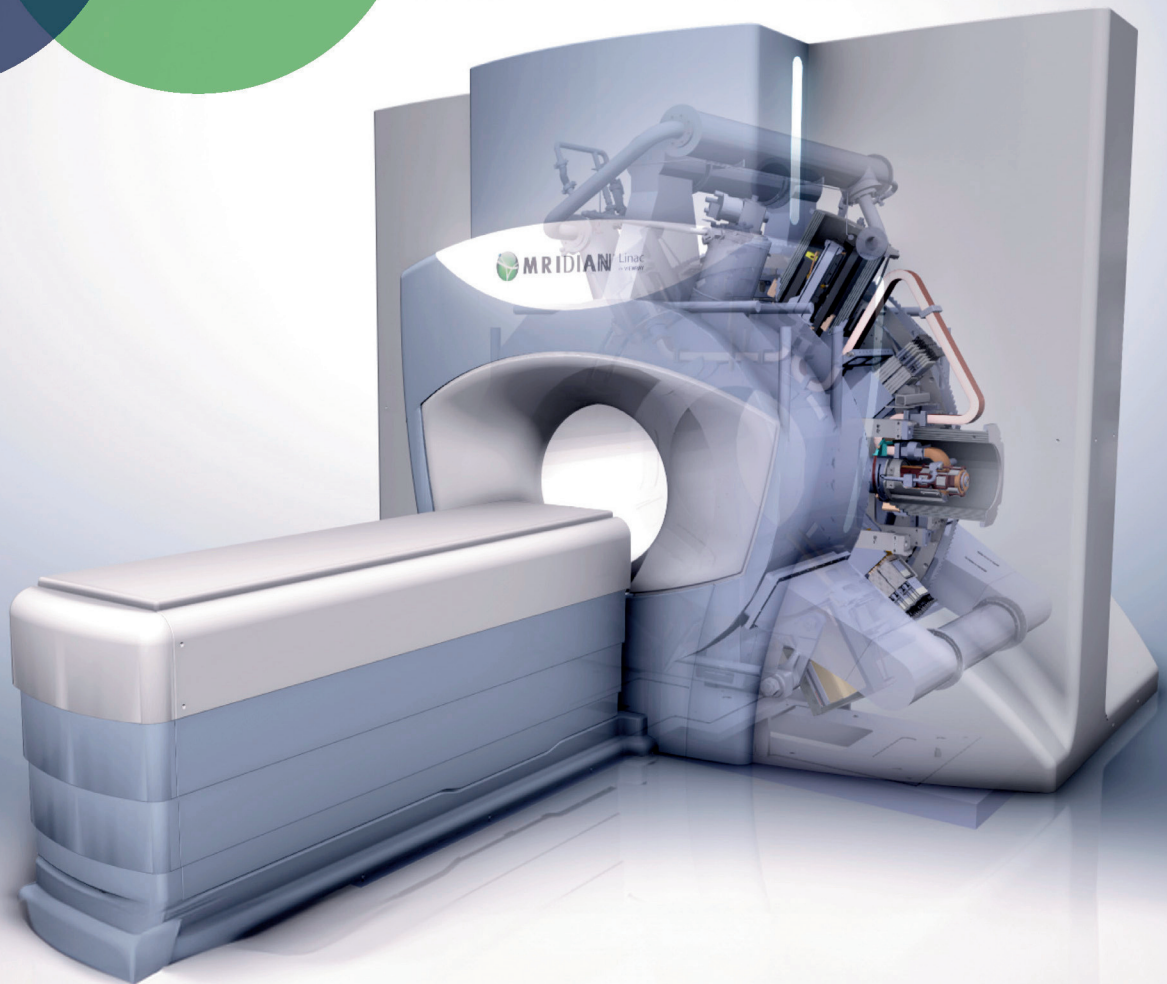
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08:30-09:00

Teaching lecture: Clinical trials/studies for MR Linac: a review of the evidence (L. Nicosia, Italy)

SESSION 12 – INNOVATION IN MR

Chairs: Enis Özyar (TK), Luca Indovina (IT)

09:00-09:20

Ultra high Field MRI (M. Tosetti, Italy)

09:20-09:40

Innovative clinical indications (N. Andratschke, Switzerland)

09:40-10:00

Selected proffered papers:

- "MRI of pretreatment hypoxia and early response assessment in cervical cancer" (T. Hompland)
- "Feasibility of free-breathing multi-slice cardiac T1 mapping on an MR-linac" (B. Pontr )

10:00-10:15

Coffee Break

SESSION 13 – PROFFERED PAPERS 4

Chairs: Ruggero Ruggeri (IT), Sebastian Kl ter (DE)

10:15-11:55

- "Dosimetric analysis of the use of synthetic CT images for prostate radiotherapy planning using the Acuros dose calculation algorithm" (S. af Wetterstedt)
- "Treatment field size restrictions for a novel bi-directional prototype MR-integrated proton therapy system" (B. Oborn)
- "Diffusion and echo time related ADC differences between MRI-linacs and diagnostic high gradient performance scanners – A significant source of error" (E. Palm r)
- "Clinical implementation of on-board EPI-DWI for MRI-Linac rectal cancer patient" (M. Nardini)
- "Quantification and optimization of imaging quality for small bowel tracking during MR-guided radiotherapy" (S. Damen)
- "Development and Implementation of a Novel Workflow to Measure Prostate and Lesion ADC at Multiple Treatment Timepoints" (E. Kaza)
- "Validation of a 3D cine-MRI guided MLC tracking workflow for ultra-hypofractionated prostate SBRT using scintillation-based time-resolved dosimetry" (P. Uijtewaal)
- "First pilot worldwide adaptive treatment with Comprehensive Motion Management with 1.5T MR-Linac" (L. Nicosia)
- "Time-dependent diffusion MRI as a potential quantitative imaging biomarker for radiotherapy" (M. Jokivuolle)



SESSION 14 – MRI VS CBCT: DISCUSSION

Chair: Nicola Dinapoli (IT)

11:55-12:25

Sustainability of MRgRT

Shooters: Matthias Guckenberger (CH), Rob Tijssen (NL)

SESSION 15 – PROFFERED PAPERS 5

Chairs: Marco Felisi (IT), Matteo Mancino (IT)

12:25-13:25

- “Clinical implementation of commercial synthetic CT solution for MR-only radiotherapy for glioblastoma” (S. Emin)
- “Role of Magnetic Resonance Imaging Guided Radiotherapy (MRgRT) in the Management of Abdominal Non-Hodgkin Lymphomas”(E. Ozyar)
- “Impact of patient specific deep learning OAR segmentation on accumulated online adapted MRgRT dose” (Y. Xiong)
- “Reliability of Diffusion Weighted MRI of Human Thigh Muscles for Application of a Tumor Infiltration Model ” (E. Kaza)
- “Intravoxel incoherent motion modelling of diffusion-weighted MRI using deep learning: simulations and evaluation in head and neck cancer” (M. Kåstad Høiskar)
- “The effect of magnetic field on pancreatic organoids radiosensitivity during SBRT” (E. Cesari)

13:25-13:35

Best young contribution award

SESSION 16 – CLOSING SESSION

Chairs: Luca Boldrini (IT), Lorenzo Placidi (IT)

13:35-13:45

Closing remarks



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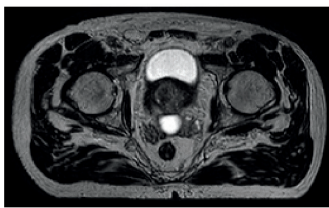
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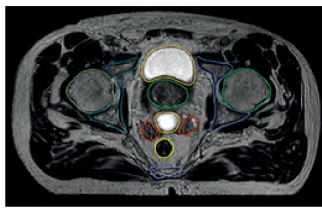
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ART-Plan™: Unlock true MR-only workflow in your clinic through AI

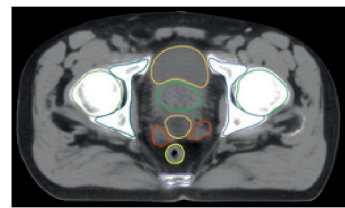
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Abstracts selection for proffered papers session

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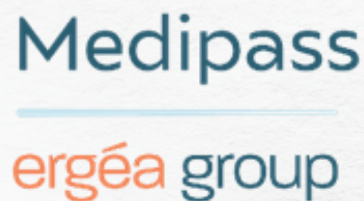
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