

PROGRAM

38th Belgian Hospital Physicists Association Annual Symposium

Friday 10/02/2023		Copper Hall	Silver Hall	Meeting studio 211	Meeting studio 212
8h30-9h00: REGISTRATION and breakfast					
1 st session 9h – 10h30	ALL "Medical Physics and Modern Challenges" 9h00: Opening by Organizing Committee 9h15: Aileen Flavin Cyber attacks 9h40: Robert Chuter The climate crisis (ONLINE) 10h05: Federica Zanca Regulatory aspects of AI medical software Chairs: Jennifer Dhont & Younes Jourani				
10h30-11h: COFFEE break – Grand Hall					
2 nd session 11h-12h30	RT "Audits & Dosimetry" 11h00: Marco Caprioli - Comparison of diode array, radiochromic film and OSL film dosimeters for patient specific QA 11h10: Evy Bossuyt - Assessing the impact of adaptations to the clinical workflow using transit in vivo dosimetry 11h20: Marco Caprioli - Multicentre validation of the signal fading model of a new OSL film dosimeter 11h30: Arnaud Colijn - Potential of optically stimulated luminescence dosimetry in ultra-high dose rate in comparison with radiochromic films 11h40: Brigitte Reniers BELdART 12h00: Bob Schaecken 30 years of alanine dosimetry in radiotherapy quality assurance 12h20: Discussion Moderators: Dirk Verellen & Barbara Vanderstraeten	RX "Audits" 11h00: Damien Dumont - The importance of a tender for dose optimization 11h15: Kwintin Torfs - Annual Medical Physics Compliance Testing: a Comparison Between 33 State of the Art CT Scanner Models 11h25: Hannelore Verhoeven - A Large Retrospective Study Of Non-Compliance Findings At Half Yearly Medical Physics Tests Of Digital Mammography Devices 11h35: Joke Binst - Optimization of a CT angiography protocol using water equivalent diameter 11h50: Katrien Vanslambrouck B-QUAADRIL (VIDEO) 12h15: Discussion Moderators: Klaus Bacher & Timo de Bondt	NM "Audits" 11h00: Daniel Santiago - Changing the way personal dosimetry is performed in nuclear medicine: Switching from physical dosimeters to computational methods 11h10: Yves D'Asseler - Breastfeeding recommendations in diagnostic nuclear medicine 11h20: Gwenny Verfaillie - Patient-specific CT organ doses in whole-body PET/CT 11h30: Clarita Saldarriaga Vargas Measurement intercomparisons to evaluate the accuracy of radionuclide activity calibrators used in nuclear medicine 11h55: Severine Cucchiaro B-QUANUM 12h20: Discussion Moderators: Laurence Beels & Kristof Baete	QM 11h00: Petra Reijnders The Dutch experience with the PRISMA-RT benchmarking platform: lessons to be learned? 11h35: Frederik Vanhoutte Status of PRISMA-RT in Belgium 11h50: Aude Vaandering Is there a role for the radiotherapy quality manager in the medical physics department? 12h10: Chahrazad Benazzou: Can proactive risk assessment be made easier Chairs: Katrien Leysen & Aude Vaandering	
12h30-13h25: LUNCH break – Grand Hall					
Commercial sessions 13h25-14h05	13h25: Brainlab – Thierry Gevaert 'ExactTrac Dynamic: precision patient monitoring for radiotherapy combining SGRT and IGRT' 13h35: VisionRT – Glendale Leon 'MapRT, optimizing your treatment plan' (ONLINE) 13h45: De Ceunynck – Thierry Gevaert 'Initial experience of MR guided radiotherapy for rectal cancer' 13h55: Varian – HYPERSIGHT™ a revolution in resolution Chairs: Akos Gulyban & Nadine Linthout	13h30: MIM – Janne Vignero 'Segmentation and characterization of lymph nodes in cervical carcinoma patients' 13h40: Comecer / X-Sanatec – Frans Wijmans 'Dose Calibrator quality control and geometry' 13h50: GE – Martina Stella 'StarGuide™: Defining new perspectives in nuclear medicine' Chairs: Bruno Vanderlinden & An De Crop			13h30: Cablon – Sven D'Haese 'Implementation of CNERGY Go! (biometric patient identification) in UZ Brussel.' 13h40: RT-IDEA International – David Menichelli 'myQA PROactive: a prospective risk management tool optimized for radiation oncology' Chairs: Katrien Leysen & Severine Cucchiaro
3 rd session 14h05-15h35	RX "Virtual trials & MRI" 14h05: Ehsan Samei Virtual Clinical Trials (ONLINE) 14h35: Pim Pullens MRI 15h05: Timo De Bondt - Implementation of regular quality assurance in a clinical MRI environment 15h15: Nicolas Coquelet - Assessment of Optimal Apparent Diffusion Coefficient Cut-Off Value Discriminating Peripheral Zone Prostate Cancer 15h25: Rodrigo Trevisan Massera - Comparing anticatter grid modelling for x-ray imaging in Monte Carlo simulations Chairs: Ronald Peeters & Nico Bult	RT "Exotic RT" 14h05: Macarena Chocan Vera - Arc proton therapy for esophageal cancer: feasibility and first plan comparison with IMPT 14h15: Geert Pittonwils - Small field electron beams : Measurement based validation of the Electron Monte Carlo dose calculation algorithm. 14h25: Marina Orts Sanz - Monte Carlo calculation of ion recombination correction factor in Carbon Ion Beams 14h35: Danah Pross - Optimization strategies for beamlet-free treatment planning in proton therapy 14h45: Elena Bordenas - Dose mimicking based strategies for online adaptive proton therapy in head and neck cancer 14h55: Sebastien Penninckx - BNCT – Back to the future 15h15: Pierre Montay-Gruel FLASH-Radiotherapy: a radiobiology point of view on the FLASH effect Chairs: Tom Depuydt & Edmond Sterpin	NM "New Geometry Cameras" 14h05: Claire Bernard - Sharing experience with new geometry SPECT camera. 14h20: Benoit Collette - Personalized dosimetry for simulation and treatment in SIRT with 166Ho-PLLA - A single-center pilot feasibility study to bright the way 14h35: Elli Dimitriadi - Optimal bed overlap for 18F-FDG PET/CT image acquisition with a GE Discovery MI Gen2 system. 14h50: Bruno Vanderlinden - Optimisation of PET 18F-FDG acquisition and reconstruction parameters on GE Discovery MI Gen2 4Rings and 6Rings PET/CT 15h05: Jirair Karabet - 90Y PET/CT evaluation on GE Discovery MI Gen2 4 & 6 Rings 15h20: Alain Seret - A head-to-head comparison of contrast recovery : disruptive CZT-based Veriton and state-of-the-art standard Anger type Inveo SPECT-CT Chairs: Benoit Collette & Claire Bernard	QM QMRT meeting	
15h35-16h00: COFFEE break – Grand Hall					
4 th session 16h00 – 16h30	ALL Audit discussions - outcome presentations Moderators from respective Audit sessions	RX 16h00: Gwenny Verfaillie - Accuracy of patient-specific CT organ doses from Monte Carlo simulations – Influence of CT-based voxel models 16h10: Lauren Podevyn - Comparison of different dosimetry software programs for dose estimation of an unborn child 16h20: Jeremie Dabin - Organ dose calculation software for interventional cardiology Chairs: Michiel Dehaers & Hilde Bosmans	15h30-16h30: Terumo meeting		
5 th session 16h30 – 18h00	ALL Professional matters + General Assembly Jan Vandecasteele				

8h30-9h00: REGISTRATION and breakfast

1 st session 9h – 10h30	NM – RT – RX 9h00: Isabelle Gerardy (Solid state) detectors 9h25: Alessia Gasparini - Diamond detectors as a powerful real-time tool for commissioning UHDR electron beams in a 3D water tank 9h35: Emma Verelst - Stent appearance in resected human arteries using a novel silicon-based photon counting CT prototype 9h45: Verdi Vanreusel - 2D scintillating sheets as real time dosimetric solution for UHDR electron beams. 9h55: Inge De Bruycker - Predicting toxicity during head and neck radiotherapy 10h05: Katrien Houbrechts - Simulating realistic breast cancer cases for virtual clinical trials in an objective and automated way 10h15: Astrid Van Camp - A deep learning model optimised to detect both masses and microcalcification clusters in contrast-enhanced mammography. Chairs: Ana Vaniqui & Hugo Levillain
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10h30-11h: COFFEE break + POSTER discussion at poster stands – Grand Hall

2 nd session 11h-12h30	NM – RT – RX 11h00: Oliver Diaz Europe's vision on AI in Medical Physics 11h25: Yao-Kuan Wang - Domain Adaptation with CycleGAN in Digital Mammography: Application on Pectoral Muscle Segmentation 11h35: Tobias Wagner - Using Autoencoder networks to find Quantitative Imaging Biomarker candidates in digital mammography images 11h45: Konstantinos Koukoutegos - In-house development of a Deep Learning-based algorithm for use in the daily radiological practice: an illustration for kidney segmentation in contrast enhanced Computed Tomography 11h55: Michael Claessens - Automated classification of EPID-based pre-treatment QA results of VMAT plans with optimized plan complexity metrics: predictive power and multi-institutional generalizability 12h05: Liesbeth Vandewinckele - Aperture and monitor unit prediction using deep learning as a warm start for breast VMAT optimization 12h15: Geert De Kerf - Treatment couch parameter prediction for SGRT Chairs: Ana Barragan & John Lee
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12h30-13h30: LUNCH break – Grand Hall

Commercial sessions 13h30-14h00	13h30: PEO – Ioannis Genitsarios <i>'The Next-Generation Cylindrical Water Scanning System'</i> 13h40: RaySearch – Geert De Kerf <i>'Deep Learning Planning with RayStation for SBRT Prostate Treatments'</i> 13h50: Elekta – Erik Geerlof <i>'Elekta Unity Comprehensive Motion Management with True Tracking & Automatic Gating'</i> Chairs: Manuela Burghlelea & Wouter Crijns
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3 rd session 14h00-15h30	NM – RT – RX 14h00: Paddy Gilligan Looking inside EFOMP 14h10: Efi Koutsouveli BHPA within EFOMP 14h25: Tim Everaert - Assessment of setup errors and internal motion for rectal cancer using MR-guided radiotherapy 14h35: Tim Busselot - Preliminary study on video-guided patient positioning in the CT-scanner 14h45: Florian Dupont - Evaluation of PTV margins for CBCT-based prostate adaptive radiotherapy 14h55: Jinane Bakkali Tahiri - Results of multi-centric 4DCT QA audit: evaluating the accuracy and consistency of 4D imaging 15h05: Benjamin Roberfroid - Evaluation of the automatic optimization engine of Varian Ethos: specificity and fine-tuning investigation 15h15: Kyra Dierinck - Multi-criteria optimization for radiotherapy treatment planning of localized prostate cancer. Chairs: Jan Vandecasteele & Federica Zanca
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15h30-16h00: COFFEE break – Grand Hall

4 th session 16h00-16h30	NM – RT – RX Closing + Awards Chairs / presenters: Scientific & Organizing committee
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"To gather, to get there, together"