



7-8 February Louvain-La-Neuve

https://symposium.bhpa.eu/

#BHPA2025









	Friday 7th February						
	Theatre	Foyer Royal	Foyer du Lac	Hocaille			
09h00 - 10h30	10' Opening by organising committee The era of automation in medical physics: right foundations for more secure and easy workflows 30' Automation and Human Performance: Insights from an Aviation Perspective - AD Schmitz, EUROCONTROL 30' Al in medical physics: foundations that matter - A. Dekker, MAASTRO 10' Automation in Radiation Oncology: We've Taken Off and Are Gaining Altitude, D. Callens, KULeuven	■ INVITED SPEAKERS■ SPONSORED TALKYP YOUNG PHYSICIST					
10h30	Coffee Break						
11h00 - 12h30	Advanced treatment plan optimisation and delivery techniques in RT 7'SNAP - Automated Multi-Patient VMAT Prostate Planning Using Fine-Tuning Process Through Dynamic Adjustment of Optimization Parameters, H. Cavus, Jessa Ziekenhuis 7'SNAP - The Spine SRS module (Elements TPS, Brainlab) for treatment of spinal metastasis in stereotactic conditions, V. Baltieri, CHU Charleroi 7'SNAP - How low can we go? K. Leysen - AZ Turnhout 10'First validation/commissioning of the novel RapidArc Dynamic technique for breast radiotherapy, T. Reynders, UZLeuven 15'Evaluation of robust planning on the GTV in lung stereotactic body radiation therapy, N. Piecharski, CHU Liege YP 15'Reduced time and memory requirements for robust proton therapy planning through a beamlet-free approach, D. Pross, UCLouvain YP 15'Fast deliverable proton therapy for lung cancer using 3D-printed range modulators: evaluating beam time efficiency and motion mitigation, J. Beyers, KU Leuven YP 10'RaySearch	New applications and developments in radiology 15' Modelling image-specific microcalcification clusters for mammographic imaging, A. Van Camp, KULeuven YP 15' Dual Roles of Calcification Features in the Mirai Mammographic Breast Cancer Risk Prediction Model: Early Micro-Calcification Detection and Identification of High-risk Calcifications, Y. Wang, KU Leuven YP 15' The precision of CT imaging for the evaluation of bone implant migration: a preclinical study on a porcine cadaver model. M. Acke, VUB YP 15' Detection of regional ventilation differences in normal and defected in vivo rabbit lungs using dynamic Xenon-gas enhanced DEC shuttle mode imaging, E. Verelst, VUB YP 15' Patient-tailored iodine contrast injection optimization in coronary PCCT angiography, T. Busselot, UZLeuven YP	■ 30' Quantitative SPECT/CT Imaging: The Foundation for Accurate Internal Dosimetry - Johannes Tran-Gia, University Hospital Würzburg 15' Scatter compensation for dynamic brain PET using very fast Monte Carlo simulation, S. Noë, KULeuven YP 15' Alphavision: 12 points go to Astatine-211, L. Raes, UZBrussel YP 15' Energy-based scatter correction in PET, accounting for the position dependent energy spectrum of the true coincidences, S. Zaman Pour, KULeuven YP 15' CT-free attenuation correction method for dedicated cardiac pinhole CZT system: a phantom study, M. Hesse, UCLouvain	45' QMs and MPEs - partners or rivals ? - Survey results and discussion 15' Findings from a longitudinal Study: What is the optimal strategy for PREM-assessment in Radiation Oncology?, C. Benazzouz, UZ Leuven 15' Report and Analysis of a Major IT Breakdown Affecting a Hospital and its Radiotherapy Department, S. Gabriel, CHU UCL Namur 15' RaySwitch: a project to implement RayCare and RayStation as a new OIS, K. Snijders, Iridium Netwerk			
12h30	Lunch						
13h30 - 15h30	Dosimetry and dose calculation 30' Unraveling Dosimetric Loose Ends: From Foundations to Clinical Impact - Nick Reynarts, Institut Jules Bordet 7' SNAP - Absolute calibration of monitor unit chambers: A 10-year analysis for six Elekta linacs, M. Mathot, CHU Liege 7' SNAP - Multi-institutional study on CT number variation using DirectDensity reconstruction, M. Burghelea, Bordet 10' Temporal drift in the calibration of Ir-192 brachytherapy sources: A BRAPHYQS multi-centre analysis, M. Brabandere, UZLeuven 10' Validation of Acuros v18 model with Primo Monte Carlo code, L. Pellegri, CHU Tivoli 15' Optimizing the modeling of the Elekta Agility MLC of the CHU of Liege in Raystation 12A, F. Tchelong Kwayeb, CHU Liege YP 15' Dosimetric Characterization of a New Optically Stimulated Luminescence Film in Particle Beams, M. Caprioli, UZLeuven YP 15' Real-time assessment of ion recombination correction and dose rate using a dual-gap ionization chamber, M Orts, UCLouvain YP 10' PEO Medical	Daily MPE tasks: Dosimetry and optimisation 30' Dose monitoring systems: Challenges and perils of dose monitoring systems in radiology - J. Binst, UZ Leuven 15' First Belgian local diagnostic reference level for paediatric whole-body and brain 18F-FDG PET/CT, T. Assoignon, UCLouvain PP 15' Effective dose conversion factors for adult and pediatric patients in dual energy extremity, dento-maxillofacial and ENT CBCT imaging, K. Merken, UZLeuven 15' An investigation of the dose of CT scout views, D. Hee, UZBrussel PP 15' Validation of OpenMC, a Python Monte Carlo particle transport code, for patient dosimetry in conventional radiology, J. Dabin, SCKCEN 15' Variations in participant positioning, scan direction and scanogram angle influence organ-specific radiation doses in routine low-dose chest CT for lung cancer screening, L. D'hondt, UGent PP 15' Image Quality in lung cancer screening LDCT: comparing the NELSON trial to current conventional and photon-counting thoracic CT, K. Torfs, KULeuven PP	■ XX' Recent updates in the regulatory framework regarding medical radionuclides M. Vandecapelle, FANC ■ XX' Radioactive release from hospitals in the environment - J. Vives – SCK CEN ■ XX' Radiation protection aspects when introducing new radiopharma in the hospital - Y. D'Asseler, UZ Gent 15' How much do 68Ga-, 177Lu- and 1311-based radiopharmaceuticals contribute to the global radiation exposure of nuclear medicine staff?, L. Struelens, SCKCEN 15' Microscopic analysis of attenuating layers in personal radiation protective equipment (PRPE): evaluation of material composition and influence of exposure to cleaning agents, S. Bayart, UGent YP BVS-ABR meeting - part I	QMRT.be meeting			

Coffee Break

Social Event

BVS-ABR meeting - part II

15h30 16h00

18h00

General Assembly

	Saturday 8th February					
	Theatre	Foyer Royal	Foyer du Lac	Hocaille		
9h00 - 09h30	30' Getting right foundations for reirradiation: what medical physics can do to ensure safe and robust dose planning and evaluation - Ane Appelt, University of Leeds					
9h30 - 10h30	Improving and modeling outcomes 15' Cumulative doses in radiotherapy treatment of brain cancer and lymphoma, J. Rutten, UGent YP 15' Development of a probabilistic model for metastatic lymphatic progression in early-stage breast cancer, Z. Smine, Bordet YP 15' The impact of a probabilistic definition of the target volume and radiobiological optimization on complication probabilities in proton therapy, E. Peeters, UCLouvain YP 15' Machine-Specific Fetal Dose Assessment in Proton Therapy for Breast Cancer During Pregnancy, J. Hohmann, KULeuven YP		30' Metrology: Providing a firm foundation for Nuclear Medicine - Andrew Fenwick, NPL 15' Cross-calibration of a dose calibrator and a gamma counter for Gallium-68 and Fluor-18 activity measurements, T. Assoignon, UCLouvain YP 15' Independent verification of activity determination for radiopharmaceutical preparations in nuclear medicine, K. Baete, UZLeuven	« CHIMP » meeting		
10h30 - 11h00	Coffee Break					
11h00 - 12h30	Tools and Methods for Adaptive Therapy 15' Intentional deep overfit learning to bypass treatment plan optimization in adaptive radiotherapy for lung cancer IMRT, L. Vandenbroucke, KULeuven P. 15' Real-time adaptive proton therapy with a beamlet-free optimizer, V. Dormal, UCLouvain P. 15' Deformable Image Registration for contour propagation for Head and Neck adaptive radiotherapy, I. RHIMI, Bordet / Hospital Portes Provence P. 10' Evaluation of delivered dose and correlation with toxicities for radiotherapy of head and neck cancers, E. Gnacadja, Bordet / IBA 10' Dosimetric impact of delivering beams lateral first vs. clockwise order for prostate SABR with 1.5T MR-Linac, A. Gulyban, Bordet "SNAP - Bone bulk density based on classical, Direct Density and synthetic CT for prostate MR guided SBRT: Is there a relevant dosimetric impact?, A. Gulyban, Bordet	Daily MPE tasks: Quality controls and optimisation 30' Adaptation of classic QC test for testing on new CNR-optimized fluoroscopy systems - M. Dehairs, Institut J.Bordet 15' Optimization in paediatric CT: the power of protocol management, J. Binst, UZLeuven 15' In-depth acceptance testing of six mobile digital radiography systems for bedside x-ray imaging, N. Marshall, UZLeuven 15' A workflow to harmonize CT abdomen protocols beyond dose equalization, J. Vignero, UZLeuven 15' Pitfalls in quality control testing of contrast-enhanced mammography, K. Houbrechts, UZLeuven	NUCLEAR MEDICINE Parallel meeting for Nuclear medicine professionals Program to be confirmed	RT24 meeting		
12h30 - 13h30	Lunch					
13h30 - 15h00	Closing debate: "Protect the individual patient or improve the well-being of the population: must we choose?" Steve Ebdon-Jackson, formerly at Health Protection Agency UK Ricard Martinez, University of Valencia Wim Pinxten, University of Hasselt					
15h00 - 15h30		Coffee Break				
15h30 - 16h00	Awards and closing					