



11th Annual Scientific Meeting

9th-13th November

Scientific Programme

	Pre-released Content	Live Content
Monday	AI workshop Posters	Live Q&A Discussion: Future of AI in healthcare
Tuesday	Parallel Session Posters	Live Q&A Invited Speaker: Tufve Nyholm
Wednesday	Joint Session Posters	Live Q&A Invited Speaker: Ger O'Connor
Thursday	Xiel Bursary & YIG Posters	Live Q&A Invited Speaker: Jim O'Doherty
Friday		Wil van der Putten Lecture: Jim Malone Prizes

Invited Speakers

Tue	Diagnostic and therapeutic physicists: Are there any reasons to collaborate?	Prof Tufve Nyholm
Wed	Connected personalised health: Future manufacturing of medical devices in a clinical setting	Dr Ger O'Connor
Thurs	Medical Physics in the time of COVID-19: A global perspective	Jim O'Doherty
Fri	Inaugural Wil van der Putten Lecture	Jim Malone

AI Workshop

Computer Vision for [AI] Medical Diagnosis	Prof. Paul F. Whelan
Artificial Intelligence & Machine Learning in Medicine	Dr Pepijn van de Ven
Bringing the Power of Medical Imaging out of the Shadows with XAI	Dr. Kathleen Curran
Use of Commercial AI Solutions in Radiotherapy, the Present and the Future	Dr. Gordon Sands
Are we ready for the Clinical Application of AI in Medicine	Ciaran Malone

Parallel Sessions: Radiotherapy, Diagnostic Imaging and Clinical Measurements and Medical Informatics

RT	Evaluation of a deformable image registration software for use in treatment planning of previously irradiated patients	Aoife McKnight
RT	The invisible moving platform using Developer Mode for lung PSQA	Sergio Esteve

RT	Overview and clinical experience of performing daily EPID based transit dosimetry with an automated workflow	Aisling Haughey
RT	End-to-end dosimetry Audit for HDR Brachytherapy	Sarah Bassi
DI	A survey of image quality for non-contrast CT stroke imaging	David Caldwell
DI	Optimising Mammography Image Quality	Elizabeth Keavey
DI	A Deep Learning approach to Diagnostic Ultrasound Quality Assurance	Ray Lynch
DI	Investigation into the clinical implementation of X-ray Phase Contrast Imaging	Matthew Donoghue
CMMI	Proof of Concept: POF enabled neonatal movement sensor system	Eoin Gleeson
CMMI	Design, construction and validation of an electronically controlled algometer for use in fMRI studies to investigate brain activation in response to pressure pain stimuli.	Frances Hegarty
CMMI	Smart Mats using Embedded Polymer Optical Fibres to classify Human Motion Characteristics	Patricia Scully
CMMI	Monitoring environmental NOx during Inhaled Nitric Oxide Therapy	Frank Kirrane
CMMI	An Alternate Solution Towards Improving Neonatal and Maternal Outcome	Jiss J. Nallikuzhy

Joint Session

Survey of the Profile and Clinical Training Pathways of Irish Medical Physics Experts (MPE) in 2019.	Margaret Moore
Practical radiation protection considerations in dealing with the death of a patient following radioiodine treatment	Kathryn Carson
Augmented Reality: A potential enabler for advanced medical device use and safety training	Peter Conneely
Optimising Dosimetric Techniques using Planar 99mTc- MAA Imaging for Selective Internal Radiotherapy	Niamh McArdle

Xiel Bursary

Cerebral Oxygenation Responses to Standing are Altered in Young Patients Prone to Fainting	Laura Pérez Denia
A survey of image quality for non-contrast CT stroke imaging	David Caldwell
Deformable image registration (DIR) and radiobiological recalculation for retreat plan evaluation	Laura Stenzel
Clinical implementation of 4D CT workflow for radiation treatment planning	Lauren Byrne
Monte Carlo modelling of kV radiotherapy	Mihails Nikandrov
Design optimization of novel inorganic scintillation detectors for the small animal radiation research platform (SARRP)	Skye Conlan