

MESTRO Conference 2023: Radiation Biological Modifiers for Improved Cancer Systemic Control

Parallel Session: Physics

Day 2 - Friday November 10th

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| 08:30 - 09:00 | Breakfast | | |
| Chairpersons: Dr. Mokhtar Alshanquity and Dr. WamiedAbdulRahman | | | |
| 09:00 – 09:20 | Medical Physics in the Middle East – current status and future directions | Dr. Meshari Al Nuaimi | |
| 09:20 – 09:40 | Role of Medical Physics in advancing radiation therapy healthcare equity in Middle Eastern countries | Dr. Ghada Al Dosari | |
| 09:40 – 10:00 | Call for action – Incident reporting in the Middle East | Miss. Iqbal Al Amri | |
| 10:00 – 10:30 | Keynote speaker 3: Reshaping Tomorrow: The Need for Multi-country Clinical Trials in the Middle Erastian countries with a Focus on Cancer. | Prof. M.SaifulHuq | |
| 10:30 - 10:40 | Coffee Break | | |
| 10:40 - 11:00 | The Beauty and the Beast of Adaptive Radiotherapy – could we design a solution for Middle East? | Prof. JP Pignol | |
| PROFERRED PAPERS | | | |
| 11:00 - 11:10 | Assessment of Bi-Gd2O3 nanoparticles as contrast agent for detection of tumor using spectral photon counting CT – a phantom study | Mr.Yusuf Olatunji Ibrahim | |
| 11:10 – 11:20 | Gold nanoparticles and gold nanorods enhanced radiation-induced cell death in cancer cells | Mr. Mati Ur Rehman | |
| 11:20 – 11:30 | Diagnostic Tool for Non-Small Cell Lung Cancer (NSCLC) Lyophilized Serum | Dr. Mohammed Sayed Mohammed | |
| 11:30 – 11:40 | Factors Affecting Isocenter Displacement and Planning Target Volume Margin for Patients with Rectal Cancer Receiving Radiation Therapy | Mr. NwafAlkhanein | |
| 11:40 – 11:50 | Comparison of Small Field Output Factors for Cyber Knife measured with Different Detectors | Ms.ReenumItaf | |
| 11:50 – 12:00 | Question and answers | | |
| 12:00 - 13:00 | Lunch Break | | |
| Chairpersons: Dr. Meshari Al Nuaimi and Dr Ghada Al Dosari | | | |
| 13:00 - 13:20 | Optimizing patient care: CBCT based online adaptive radiotherapy with ETHOS | Dr. RabihHammoud | |
| 13:20 - 13:40 | Predicting portal dosimetric images using deep neural networks | Dr. Wamied Abdulrahman | |
| 13:40 - 14:00 | Prostate US guided HDR brachytherapy | Dr. Mokhtar Alshanquity | |
| 14:00 - 14:20 | Tomotherapy experience at a tertiary cancer center | Dr. Mohammed Alaswad | |
| 14:20 -14:40 | “A Practical Approach to Re-irradiation in Radiation Oncology” | Dr. Nadir Kucuk | |
| 14:40 - 15:00 | Primo MC code as a tool for dosimetry verification and an independent quality assurance | Dr. George Fares | |
| 15:20 – 15:30 | Coffee Break | | |
| 15:40 – 16:30 | Poster discussion: | | |
| 16:30 - 17:30 | Plan challenge study: Pancreatic SBRT results” Results and awards | Dr. Nadir Kucuk | |
| 17:30 | Adjourn of the day | | |
| Day 3 - Saturday November 11th | | | |
| Parallel Session: Radiation Therapists | | | |
| 08:00 - 09:00 | Breakfast | | |



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| 09:00 - 09:20 | Radiation dose and Booster Dose after Breast-Conserving Treatment in Patients with Breast Cancer | Mohammad Al Shahrani | |
| 09:20 - 09:40 | Thermoplastic Masks Immobilization Terms of shrinking and Pressure | Mohammed BanyYones | |
| 09:40 - 09:50 | Comparing Set-up Accuracy in Patients Undergoing Right Breast/Chest wall Radiotherapy Treatment: Tattoos Vs. Surface Guided Radiotherapy | Fatima Balushi | |
| 09:50 - 10:00 | Position Reproducibility testing for MR isocenter using MRgRT Simulation Protocol for Head-Neck mask Using Thermoplastic mask. | Abide Ali Aman | |
| 10:00 - 10:10 | Effects of hydration on consistency of bladder-filling protocol during pelvic radiation therapy | Amna Al Ajmi | |
| 09:50 - 10:00 | Case Study | Miss. Sara B | |