

Oral presentation

Session 1

Cancer Cell Biology

Date: 01 March 2019

Time: 12.30-1310

Venue: Bayan 1

Chairperson: Assoc. Prof. Dr Yap Lee Fah

Time	ID	Title
1230-1240	8	<p>Prenatal ultrasound induces apoptotic neurons and glial cells (AC) in rabbit fetal brain: A biochemical analysis.</p> <p><u>Farah Wahida Ahmad Zaiki</u> International Islamic Univerisity Malaysia, Malaysia</p>
1240-1250	36	<p>Specific inhibition of miR130a using CRISPR/Cas9 induces the proliferation and migration of non-small lung cancer cell line.</p> <p><u>Siti Razila Abdul Razak</u>, Nur Ainina Abdollah, Nabil Izzatie Mohamad Safiai, Muhammad Khairi Ahmad and Kunitaa Theva Das Advanced Medical and Dental Institute, Universiti Sains Malaysia, Malaysia</p>
1250-1300	61	<p>Roles of lipids in development of anticancer drug resistance in MCF7 cells.</p> <p><u>Auni Fatim Abdul Hamid</u> and Shahrul Bariyah Sahul Hamid Oncological and Radiological Sciences Cluster, Advanced Medical and Dental Institute, Universiti Sains Malaysia, Malaysia</p>

Session 2

Cancer Cell Biology & Oncology

Date: 01 March 2019

Time: 1540 - 1600

Venue: Bayan 1

Chairperson: Dr. Nurulisa Zulkifle

Time	ID	Title
1540-1550	25	<p>Cytotoxic Effects of Low-Level Laser Irradiation on Human Breast Cancer MCF-7 Cells: In Vitro Study.</p> <p><u>Husna Azdiyah Habit</u>¹, Nursakinah Suardi¹, Shahrom Mahmud¹, Rabiatal Basria Smn Mydin² and Siti Khadijah Mohd Bakhori¹</p> <p>¹Universiti Sains Malaysia, Malaysia ²Oncological and Radiological Sciences Cluster, Advanced Medical and Dental Institute, Universiti Sains Malaysia, Malaysia</p>
1550-1600	13	<p>HDR brachytherapy in reirradiation of local nasopharyngeal recurrence.</p> <p><u>Mohamed Ait Erraisse</u>¹, Wissal Hassani¹, Moulay Ali Youssoufi² and Khalid Hassouni¹</p> <p>¹Department of Radiotherapy. University hospital Hassan II. Fes,30003, Morocco ²Faculty of Sciences (LPHE, M-S), University Mohammed V, Rabat, 10010, Morocco</p>

Session 3

Imaging

Date: 02 March 2019

Time: 0810-0950

Venue: Bayan II

Chairperson: Dr. Rafidah Zainon

Time	ID	Title
0810-0820	29	<p>Assessment of occupational exposure and radiation risks in a nuclear medicine department.</p> <p><u>Mohammed Alkhorayef</u>¹, Fareed Mayhoub², Hassan Salah³, Abdelmoneim Sulieman⁴, Huda Al-Mohammed⁵ and David Bradley⁶</p> <p>¹King Saud University, Saudi Arabia ²King Faisal Specialist Hospital and Research Center, Saudi Arabia ³Inaya Medical College, Saudi Arabia ⁴Radiology and Medical Imaging Department, College of Applied Medical Sciences, Prince Sattam bin Abdulaziz University, Saudi Arabia ⁵Princess Noura Bint Abdulrahman University, Saudi Arabia ⁶University of Surrey, United Kingdom</p>
0820-0830	31	<p>Accuracy of standardized uptake value measurements in metastatic lesion for ^{99m}Tc-HMDP bone SPECT/CT.</p> <p>Khairul Nizam Jaafar and <u>Syahir Mansor</u> Institut Perubatan dan Pergigian Termaju, USM, Malaysia</p>
0830-0840	14	<p>Scattered dose measurement for a mobile C-arm fluoroscopy system: patient thickness factor.</p> <p><u>Syarul Iman Bin Saufi</u>¹ and Husaini Salleh²</p> <p>¹Nuclear Medicine Department, Hospital Sultanah Aminah, 80100 Johor Bahru, Malaysia ²Medical Physics Group, Malaysia Nuclear Agency, 43000, Kajang, Malaysia, Malaysia</p>
0840-0850	22	<p>Assessment of effective cancer risk in paediatric CT TAP examination.</p> <p><u>Nor Azura Muhammad</u>¹, Muhammad Khalis Abdul Karim², Hanif Haspiharun² and Zunaide Kayun³</p> <p>¹Pusat Perubatan Universiti Malaya, Malaysia ²Universiti Putra Malaysia, Malaysia ³Ministry of Health of Malaysia, Malaysia</p>
0850-0900	38	<p>Cumulative effective dose in adult patients population undergoing repeated or multiple head CT scanning.</p> <p><u>Mohd Amirul Azrie Mohd Roslee</u>, Ibrahim Lutfi Shuaib, Ahmad Fakharuddin Mohd Napi, Mohd Amir Syahmi Mat Razali and Noor Diyana Osman Advanced Medical and Dental Institute, Universiti Sains Malaysia, Malaysia</p>

0900-0910	42	<p>Dose optimisation in paediatric CT Examination: Assessment on current scanning protocols associated with radiation dose received.</p> <p><u>Muhammad Kabir Abdulkadir</u>¹, Nur Atikah Yusra Mat Rahim², Nur Syazwani Mazlan², Norfataha Mohd Daud³ and Noor Diyana Osman¹</p> <p>¹Advanced Medical and Dental Institute, Universiti Sains Malaysia, Kepala Batas, Penang, Malaysia</p> <p>²School of Health Sciences, Health Campus, Universiti Sains Malaysia, Kubang Kerian, Kelantan, Malaysia</p> <p>³Department of Radiology, Hospital Universiti Sains Malaysia, Kubang Kerian, Kelantan, Malaysia</p>
0910-0920	27	<p>Establishment of a diagnostic reference level and radiogenic risk assessment for vascular computed tomography angiography.</p> <p><u>Abdelmoneim Sulieman</u>¹, Hussain Adam², Abdulrahman Alnour³, Mohammed Alkhorayef⁴ and David Bradley⁵</p> <p>¹Prince sattam bin Abdulaziz University, Saudi Arabia</p> <p>²Sudan University of Science and Technology, Sudan</p> <p>³National Ribat University, Sudan</p> <p>⁴King Saud University, Saudi Arabia</p> <p>⁵University of Surrey, United Kingdom</p>
0920-0930	62	<p>Occupational exposure of the operator eye lens in digital coronary angiography and interventions.</p> <p>Esam Mattar¹, Amna Al-Jabri², Khalid Alsafi³, <u>Abdelmoneim A. Sulieman</u> and Ibrahim Suliman</p> <p>¹King Saud University, Saudi Arabia</p> <p>²Sultan Qaboos University, Oman</p> <p>³King Abdul Aziz University, Saudi Arabia</p> <p>⁴Prince Sattam bin Abdulaziz University, Saudi Arabia</p> <p>⁵Al Imam Mohammad Ibn Saud Islamic University (IMSIU), Saudi Arabia</p>
0930-0940	34	<p>Estimation of absorbed dose to lungs and heart in pediatric chest X-ray examination: Phantom study.</p> <p><u>Inayatullah Shah Sayed</u>¹, Nurul Hazwani Md Jamal¹ and Waliullah Shah Syed²</p> <p>¹International Islamic University Malaysia, Malaysia</p> <p>²Universiti Sains Malaysia, Malaysia</p>

Session 4

Imaging

Date: 02 March 2019

Time: 1350-1550

Venue: Bayan II

Chairperson: Dr. Noor Diyana Osman

Time	ID	Title
1350-1400	35	Unnecessary radiation dose to patients' and their caregivers' in plain radiography: A case study. <u>Inayatullah Shah Sayed</u> and Nurfadhilah Hanani Yusri International Islamic University Malaysia, Malaysia
1400-1410	44	Scatter cloud radiation in fluoroscopy-guided interventional (FGI) room. <u>Asmah Bohari</u> ¹ , Suhairul Hashim ¹ and Siti Norsyafiqah Mohd Mustafa ² ¹ Universiti Teknologi Malaysia, Malaysia ² Institut Kanser Negara, Malaysia
1410-1420	32	Characterisation of photon counting cadmium zinc telluride (CZT) detector for preclinical imaging. <u>Kamran Hameed</u> ^{1,2} , Rafidah Zainon ¹ and Mahbubunnabi Tama ² ¹ Oncological and Radiological Science Cluster, Advanced Medical and Dental Institute, Universiti Sains Malaysia, Malaysia ² Imam AbdulRahman Bin Faisal University, Saudi Arabia
1420-1430	54	Adaptive region growing image segmentation algorithms for breast MRI. <u>Joe Arun Raja Ponnusamy</u> ¹ and Nelson Kennedy Babu ² ¹ Subbalakshmi Lakshmi pathy College of Science, Madurai, India ² SMK Fomra Institute of Technology, Chennai, India
1430-1440	70	A study on the effect of various objects' angulation from central location on image displacement due to x-ray beam divergence Zafri Azran Abdul Majid ¹ , Siti Aisyah Munirah Bohang, Mohd Syahrman Mohd Azmi ² ¹ Department of Diagnostic Imaging and Radiotherapy, Kuliyyah of Allied Health Sciences, International Islamic University Malaysia, Kuantan, Pahang, Malaysia ² Department of Physics, Faculty of Science and Mathematics, Universiti Pendidikan Sultan Idris, Tanjong Malim, Perak, Malaysia

Session 5

Radiotherapy

Date: 02 March 2019

Time: 1350-1550

Venue: Citi I

Chairperson: Dr. Supriyanto Ardjo Pawiro

Time	ID	Title
1350-1400	7	2D dose reconstruction of IMRT patient-specific QA based on log file information. <u>Sayid Mubarak</u> ¹ , Wahyu Edy Wibowo ² and Supriyanto Ardjo Pawiro ¹ ¹ Universitas Indonesia, Indonesia ² Cipto Mangunkusumo Hospital, Indonesia
1400-1410	48	Monte Carlo source model of a high energy accelerator x-ray beam. <u>Oluwaseyi Oderinde</u> ¹ , Michael Akpochafor ² and Matthew Isinkaye ³ ¹ Department of Radiation Medicine and Applied Sciences, USA ² Department of Radiation Biology, Radiotherapy, Radiodiagnosis and Radiography, College of Medicine, University of Lagos, Nigeria ³ Department of Physics, Faculty of Science, Ekiti State University, Nigeria
1410-1420	67	Optical fiber scintillators for pulse-by-pulse measurement of radiation doses in IMRT treatment plans. <u>H.T. Zubair</u> ¹ , Hafiz M Zin ² , A. Oresegun ³ , Louay G.T. ³ , H.A. Abdul-Rashid ³ , Z. Yusoff ¹ and D.A. Bradley ⁴ ¹ Multimedia University, Cyberjaya, Malaysia ² Advanced Medical and Dental Institute (AMDI), Universiti Sains Malaysia, Malaysia ³ Multimedia University, Cyberjaya, Malaysia ⁴ Centre for Radiation Sciences, Sunway University, Malaysia
1420-1430	4	Enhancing the accuracy of dosimetric verification in pre-treatment head-and-neck VMAT by nonuniform backscatter correction in the EPID. <u>Yasmin Md Radzi</u> ¹ , Rebecca S. Windle ² , D. Geraint Lewis ² and Emiliano Spezi ³ ¹ Universiti Sains Malaysia, Malaysia ² Velindre Cancer Centre, United Kingdom ³ Cardiff University, United Kingdom
1430-1440	33	Dosimetric comparison of fixed-beam IMRT, VMAT and helical tomotherapy using SBRT for treatment of NSCLC. <u>Pradeep Baral</u> Kathmandu Cancer Centre, Nepal

Session 5

Radiotherapy

Date: 02 March 2019

Time: 1450 – 1540

Venue: Citi I

Chairperson: Dr. Supriyanto Ardjo Pawiro

Time	ID	Title
1450-1500	16	<p>Treatment planning system dose evaluation of air-gaps for small field FFF beam irradiation.</p> <p>Akbar Azzi¹, Dea Ryangga² and Supriyanto Arjo Pawiro¹ ¹Universitas Indonesia, Indonesia ² Pasar Minggu Regional General Hospital, Indonesia</p>
1500-1510	6	<p>Dosimetric evaluation of organ at risk doses in image guided brachytherapy for cervical cancer:A single institutional experience.</p> <p>Reduan Abdullah, Suk Chiang Chen, Ahmad Zakaria, Mohd Zahri Abdul Aziz, Gokula Kumar Appalanaido and Muhammad Fadli Mohd Sepian Universiti Sains Malaysia, Malaysia</p>
1510-1520	45	<p>3D radiotherapy photon beam dosimetry using an AMPS-based polymer gel dosimeter with x-ray CT readout.</p> <p>Jacob Mata¹, Randal Zandro Remoto² and Lucille Abad³ ¹The Graduate School, University of Santo Tomas, Philippines ²National Kidney and Transplant Institute, Philippines ³Department of Science and Technology, Philippine Nuclear Research Institute, Philippines</p>
1520-1530	65	<p>Advanced thermoluminescence dosimetric characterization of fabricated Ge-doped optical fibres (FGDOF) for electron beams dosimetry.</p> <p>Zabariah Zakaria¹, Noramaliza Mohd Noor¹ and Mohd Zahri Abdul Aziz² ¹Universiti Putra Malaysia, Malaysia ²Universiti Sains Malaysia, Malaysia</p>
1530-1540	9	<p>Elemental decomposition and fractional probability of photon interaction in Rhizophora spp. bonded with soy protein particleboard.</p> <p>Nor Ain Rabaiee¹, Mohd Zahri Abdul Aziz¹, Abdul Aziz Tajuddin², Ahmad Lutfi Yusoff³, Rokiah Hashim⁴, Muhammad Fadhurul Izwan Abdul Malik⁵ and Reduan Abdullah⁶ ¹Advanced Medical and Dental Institute, Universiti Sains Malaysia, Bertam, Malaysia ²School of Physics, Universiti Sains Malaysia, Malaysia ³Department of Nuclear Medicine, Radiotherapy and Oncology, Universiti Sains Malaysia ⁴School of Industrial Technology, Universiti Sains Malaysia, Malaysia ⁵Science and Engineering Research Centre, Universiti Sains Malaysia, Malaysia ⁶School of Health Science, Universiti Sains Malaysia, Malaysia</p>

