International Conference on Radiation Medicine (ICRM2014) Clinical Applications and Innovative Approaches

Venue: King Faisal Specialist Hospital & Research Centre and Intercontinental Hotel, Riyadh, Saudi Arabia
16 - 20 February 2014

		Sunday 16 Fobruary	, 2017							
		Sunday, 16 February Pre-ICRM2014 Course								
TIME 7:00–8:00 AM		On-Site Re Venue: Post Graduat	gistration							
TIME 8:00–8:15 AM		Pre-ICRM Dr. Belal Moftah, Chairman, I Prof. Daud Mohamed, Dep Prof. Rashed Al Rashed Al Hmaid, Venue: Post Graduate	ICRM Organizing Committee uty Director General, IAEA Chief Operating Officer, <i>KFSH&RC</i>							
8:15–9:45 AM		Session 1: Continuing Education Courses (Part I)								
Course No	CEC 1	CEC 4	CEC 11	CEC 12						
Course Title	World of Medical Physics	MRI in Practice	Joint IAEA/KFSH&RC QUATRO & QUADRILL	Joint AAEA/KACARE/KFSH&RC Introduction to Radiation Medicine						
Venue	KFSH&RC, Post Graduate Classroom 1	KFSH&RC, Post Graduate Auditorium	KFSH&RC, Post Graduate Classroom 3	KFSH&RC, Post Graduate Classroom 4						
Coordinator	Slobodan Devic, PhD	Nabeel Mishah, MBA	Ahmed Meghzifene, PhD	Belal Moftah, PhD						
Chairpersons	Waleed Al-Najjar, PhD	John Talbot, MSc; Cathy Westbrook, MSc	Ahmed Meghzifene, PhD	Abdulrahman Alarfaj, PhD						
CEC Lecture 8:15–8:45 AM	L1: Evolving Trends in Academic and Clinical Education of Medical Physicists Ervin Podgorsak L2: Medical Physics in Saudi Arabia: Past, Present,		L1: Opening and Workshop Objective Ahmed Meghzifene L2: Risk Management in Radiotherapy Tomas Kron	L1: King Faisal Specialist Hospital & Research Centre Mamdouh Albaqumi						
			L3: Overview of IAEA Guidelines on Comprehensive Audits Ahmed Meghzifene	L2: Arabic Atomic Energy Agency						
CEC Lecture		L1: Basic Principles	L4: The Need for Comprehensive Audits in Radiation Oncology: Radiation Oncologist's Perspective Mohammad Al Shabanah	Ahmad Kassem						
8:45–9:15 AM	and Future Belal Moftah	Cathy Westbrook	L5: The Need for Comprehensive Audits in Radiation Oncology: Medical Physicist's Perspective Tomas Kron	L3: King Abdullah City for Atomic and Renewable Energy Mohammed Garwan						
CEC Lecture 9:15–9:45 AM	L3: Tutorial on Advanced Radiotherapy Techniques Waleed Al-Najjar		L6: The Need for Comprehensive Audits in Radiation Oncology: Therapy Radiographer's Perspective Gurmeet Singh	L4: Radiation in Medicine: Introduction Belal Moftah						
9:45-10:00 AM		Coffee	Break							
10:00 AM-12:15 PM		Session 2: Continuing Ed	ucation Courses (Part II)							
Chairpersons	Cameila Constantinescu, PhD	John Talbot, MSc; Cathy Westbrook, MSc	Tomas Kron, PhD	Refaat AlMazrou, MSc						
CEC Lecture 10:00–10:30 AM	L4: Tutorial on Radiation Therapy Process Mohammad Al Shabanah	L2: Image Contrast Cathy Westbrook	L7: IAEA Support to National Dosimetry Audits Ahmed Meghzifene L8: Auditing Advanced Technology	L5: Radiopharmaceuticals and Tracers M. F. Ben Slimene						

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CEC Lecture 10:30–11:00 AM	L5: Practical Aspects of Medical Physics Certification Examinations Ervin Podgorsak		Tomas Kron	L6: Nuclear Medicine: Physics Aspect Refaat AlMazrou
CEC Lecture 11:00–11:30 AM	EIVIII Pouguisak	L3: Instrumentation	L9: Discussions on Clinical Audits of Radiotherapy Practice All Faculty (A. Meghzifene, B. Moftah, M. Al Shabanah,	L7: Nuclear Medicine: Clinical Aspect Mahmoud Tuli
CEC Lecture 11:30–12:15 PM	L6: First Anonymous Practical Examination Ervin Podgorsak	John Talbot	T. Kron, K. Faulkner, G. Singh) and Participants	L8: Cardiology and CathLab Hani Al-Sergani
12:15–1:15 PM		Prayer and L Venue: Post Graduate Cla		
1:15–3:30 PM		Session 3: Continuing Ed	ucation Courses (Part III)	
Chairpersons	Slobodan Devic, PhD	John Talbot, MSc; Cathy Westbrook, MSc	Keith Faulkner, PhD	Belal Moftah, PhD
CEC Lecture 1:15-2:00 PM	L7: Tutorial on X-ray Imaging for Radiotherapy Nada Tomic		Comprehensive Clinical Audits of Diagnostic Radiology Practices: A Tool for Quality Improvement: Quality Assurance Audit for Diagnostic Radiology Improvement and Learning (QUAADRIL) L10: Introduction to Clinical Audits in Diagnostic Radiology Keith Faulkner L11: The Need for Comprehensive Audits: A Radiologist's Perspective Irfan Mamoun	L9: Applications of Non-ionizing Radiation Dimitre Hristov
CEC Lecture 2:00-2:30 PM	L8: Tutorial on MRI and PET for Radiotherapy Slobodan Devic	L4: Safety John Talbot	L12: The Need for Comprehensive Audits: A Medical Physicist's Perspective Keith Faulkner L13: The Need for Comprehensive Audits: A Medical Technologist's Perspective Naheed Gamali L14: Incidents and Their Investigation: An	L10: Radiation Oncology: Physics Aspects Belal Moftah
CEC Lecture 2:30-3:00 PM	L9: Tutorial on Radiation Biology Ghazi Alsbeih		Interactive Session Keith Faulkner	L11: Radiation Oncology: Clinical Aspects Mohammad Al-Shabanah
CEC Lecture 3:00-3:30 PM	L10: Tutorial on Brachytherapy Slobodan Devic		L15: Experience of Undertaking QUADRIL Audits Keith Faulkner L16: Discussions on Clinical Audits of Diagnostic Radiology Practices All Faculty (K. Faulkner, N. Gamali, T. Kron, I. Mamoun, A. Meghzifene) and Participants	L12: Diagnostic Imaging: Clinical Aspect Salahudin El Naas
3:30-4:00 PM		Asr Prayer and	Coffee Break	
4:00-5:30 PM		Session 4: Continuing Edu	ucation Courses (Part IV)	
Chairpersons	Slobodan Devic, PhD	John Talbot, MSc; Cathy Westbrook, MSc	Ahmed Meghzifene, PhD	Adnan AlWatban, PhD
CEC Lecture 4:00-4:30 PM	L11: Tutorial on Energy Transfer and Energy Absorption in Photon Interactions with Matter Ervin Podgorsak	L5: Spin Echo John Talbot	Discussion session What are the Challenges for Setting Up Compressive Audits at the National Level? How Can the Concept of Audits be Promoted? Do we Need Regulations? How do we Deal/Follow-up with Serious Shortcomings Other Discussion Items from the Audience	L13: Diagnostic Imaging: Physics Aspect Adnan AlWatban

CEC Lecture 4:30-5:00 PM	L12: Tutorial on Interaction of Charged Particles with Matter Ervin Podgorsak	Conclusions/Recommendations All Faculty and Participants	L14: Radiography Ahnaf Arafah
CEC Lecture 5:00-5:50 PM			

Monday, 17 February 2014

TIME 7:00–8:00 AM						On-Site Re Venue: Interco						
8:00-9:30 AM					Session 5	i: Continuing Ed	ducation Course	es (Part V)				
Course No	CEC 1	CEC 2	CEC 3	CEC 4	CEC 5	CEC6	CEC 7	CEC 8	CEC 9	CEC 12	CEC 13	CEC 14
Course Title	World of Medical Physics	Breast Cancer	Advanced RT Techniques	MRI in Practice	Women's Breast Imaging	Advanced Diagnostic Imaging Techniques		SPECT, PET & CT for Technologists	Health Informatics	Introduction to Radiation Medicine	Radiation Protection & Radiobiology	Scientific Writing & Publishing
Venue	AlFardousa	AlLazurd	Hall C	AlZumurrud	AlMasmak	Buraidah Hall	AlYaqoot	Oasis	Qasr Khozam	AlHareeq	Hall A	AlHaief
Coordinator	Slobodan Devic, PhD	Yasser Khafaga, MD	Rana Mahmood, MD	Nabeel Mishah, MBA	Nuha Khoumais, MD	Lamia Jamjoom, MD	Mahmoud Tuli, MD	Gary Sayed, PhD	Metab Alkubeyyer, MD	Belal Moftah, PhD	Ghazi Alsbeih, MD, PhD	Peter Hall, MD, PhD
Chairpersons	Nabil Maalej, PhD	Majid Al- Othman, MD, Yasser Khafaga, MD	Essam Murshid, MD, Rana Mahmood, MD	John Talbot, MSc; Cathy Westbrook, MSc		Irfan Mamoun, MD; Adnan AlWatban, PhD	Ahmad Almuhaideb, MD; Saleh Othman, MD	Gary Sayed, PhD	Metab Alkubeyyer, MD	Abdelraheem Kinsara, PhD	Abdelilah Aboussekhra, PhD	Peter Hall, MD, PhD; Hilary Russell, PhD
CEC Lecture 8:10-8:30 AM	L13: Tutorial on Target and Flattening Filter in Production of Megavoltage X-ray Beams: Theoretical and Practical Aspects Ervin Podgorsak	L1: Review of All Female Breast Cancer Cases from the Saudi Cancer Registry Dahish Ajarim	L1: PET-CT Applications in RT Planning Giovanna Pepe		L1: Breast MRI in 2014 Nathalie Duchesne	L1: Multi- Parametric Advanced MR Imaging of Brain Tumors: Practical Approach Manzoor Ahmed	L1: PET Radiopharmaceut icals: Valuable Tools in Tumor Therapy Marco Chinol	L1: Overview of CT Technology and Current Practices Elwin Tilson	L1: 20 years of PACS: 10 Lessons Learned Bradley Erickson	L15: Radiation Protection I Ibraheem AlAnazi	L1: An Update of Radiation Induced Genetic Damage Nasir Ali Afsar	L1: The Changing World of Scientific Publishing Peter Hall
CEC Lecture 8:30-8:50 AM	L14: Tutorial on Medical Linear Accelerator Operation Shan Yau	L2: Imaging of Brachial Plexus E. Turgut Tali	L2: Intensity Modulated Radiation Therapy for Gynecologic Cancers: Past, Present and Future Arno Mundt	. L6: Image	L2: Breast MRI – Scanning Protocol Helmuth Schultze-	L2: A Multimodal Imaging Approach to the Study of Schizophrenia Peter Morris	L2: Determining Efficacy of Breast Cancer Therapy by PET Imaging of HER2 mRNA Matthew Thakur	L2: Overview of SPECT/CT Technology and	L2: Introduction to IHE – Integrating the Healthcare Enterprise" Harry Solomon	L16: Radiation Protection II Ibraheem AlAnazi	L2: Biological Effects of non- Ionizing Radiation Abdelilah Aboussekhra	L2: What Makes Good Writing? Hilary Russell
	L15: Tutorial on Calibration of Photon Beams Following TRS398 Recommendations Mohammed Saiful Huq	L3: Imaging of the Axilla Ruud Pijnappel	L3: MRI Simulation for Radiotherapy Treatment Planning Slobodan Devic	Production John Talbot	L3: MR-Update on the Upcoming Version of the BIRADS Lexicon Elizabeth Sutton	L3: Flow Diverters in the Treatment of Complex Brain Aneurysms Khalil Kurdi	L3: PET-CT Applications in RT Planning Giovanna Pepe	Current Practices Richard States L3: Overview of PET/CT	L3: Status of Healthcare IT N. Nishant	L17: Basic Safety Standards Maria Perez	L3: Introduction to Radiation Protection Belal Moftah	L3: Understanding the Peer Review Process & Journal Production Peter Hall
	L16: Tutorial on Calibration of Electron Beams Following TRS398 Recommendations Mohammed Saiful Huq	L4: Breast Anatomy for Radiation Treatment Rita Pant	L4: MR Integrated with Radiotherapy Kevin Brown			L4: Systemic Diseases and Spine E. Turgut Tali	L4: Neuroendo- crine Tumors Dia- gnosis (Octe- reoScan to 68Ga- DOTA Peptide PET-CT) Giovanna Pepe	Technology and Current Practices Gary Sayed	L4: Status of DICOM standards for Radiology, Radiation Oncology, and Radiaiton Protection Harry Solomon	L18: Responsibilities of Radiation Safety Officers and Workers (RSO) Abdulrahman Alarfaj	L4: Radiation Emitting Medical Device Regulation Ali Aldalaan	L4: The Structure of a Paper and The Art of Concise Writing Hilary Russell
9:30-9:45 AM						Coffee	Break					

9:45-10:30 AM	Session 6: ICRM2014 Opening Ceremony Venue: <i>Intercontinental Hotel</i> Buraidah Hall						
		ICRM 2014 Opening Ceremony					
	Recitation of the Holy Quran: Zyad Al Zahrani, Medical Student						
	Opening Remarks:	Dr. Belal Moftah, Chairman, ICRM Organizing Committee					
	Co-Organizer's Welcome Addresses:	Dr. Maria del Rosario Perez, Responsible Officer for the Global Initiative on Radiation Safety in Health Care Settings, World Health Organization (WHO) H.E. Dr. Daud Mohamad, Deputy Director General, International Atomic Energy Agency (IAEA) H.E. Dr. Mohammed Al-Meshal, President, Saudi Food and Drug Authority (SFDA) H.E. Dr. Hashem Yamani, President, King Abdullah City for Atomic and Renewable Energy (KA CARE)					
	Patronage Welcome Address:	H.E. Dr. Qasim Al Qasabi, Chief Executive Officer, King Faisal Specialist Hospital and Research Centre (KFSH&RC)					

10:45AM-12:15 NN	Session 7: Plenary Keynote Lectures I Venue: <i>Buraidah Hall</i> Chairpersons: <i>Saleh AI Mofada, MD and Khalid Abu Khabar, PhD</i>
10:45-11:15 AM	PKN Lecture 1 Atoms for Peace: Meeting Basic Human Needs Through Science and Technology Daud Mohamad, PhD
11:15-11:45 AM	PKN Lecture 2 Health Care: Is Access to Health Care a Basic Human Right or Privilege? Ervin Podgorsak, PhD
11'15 AW-	PKN Lecture 3 Non-ionizing Electromagnetic Radiation Exposure from Cell Phones & Base Stations: What's the Nature of the Exposure and Its Associated Risk Jerrold Bushberg, PhD
12:15-1:15 PM	Prayer and Lunch Break Poster Viewing Session Opens at Exhibition

			Session 8: Parallel Track	s I	
1:15-3:30 PM	Session 8 A: Radiation Oncology Track Chairpersons: <i>Ali Al-Zahrani, MD</i> and Suliman Al-Ghamdi, MD	Session 8 B: Diagnostic Imaging Track Chairpersons: <i>Omer Demirkaya,PhD</i> and Mohamed Doger, MD	Radiobiology Hack	Session 8 D: Breast Imaging Track Chairpersons: <i>Wafa Alkhyal, MD and</i> <i>Ommalkhair Abulkhair, MD and Rita Pant, MD</i>	CEC4 MRI in Practice Nabeel Mishah, MBA
Venue	Hall C	Buraidah Hall	Hall A	AlHareeq	AlZumurrud
1:15-1:40 PM	RO Lecture 1 The Ongoing Search for Optimal Multimodality Therapy for Nasopharyngeal Carcinoma (NPC) Brian O'Sullivan, MD	DI Lecture 1 Basics of MRS E. Turgut Tali, MD	RRPO Lecture 1 Overview of the New BSS and Relevant Requirements for Medical Settings Maria Pérez, MD	BI Lecture 1 Breast Cancer Screening in 2014 Nathalie Duchesne, MD	
1:40-2:05 PM	RO Lecture 2 Indications for Radiation Treatment after Neoadjuvant Chemotherapy in Patients Treated for Breast Cancer Alphonse Taghian, MD	DI Lecture 2 How to Use Diffusion and Perfusion in Brain Tumors Bradly Erickson, MD, PhD	RRPO Lecture 2 Acute Biological Effects of High Dose Radiation Exposure: An Overview Jerrold Bushberg, PhD	BI Lecture 2 Challenges Facing Breast Cancer Screening in the Kingdom of Saudi Arabia Iman Baroum, MD; Fatmah Almulhim, MD; Fatinah Altahan, MD; Maha Alfehaily, MD	
2:05-2:30 PM	RO Lecture 3 Prostate Cancer Specific Alteration of DNA Repair: A New Path Toward Radiation Sensitization Theodore Leslie DeWeese, MD	DI Lecture 3 Cardiothoracic Imaging in Oncology Michael Bolen, MD	RRPO Lecture 3 GRID Technique Majid Mohuiddin, MD		
2:30-2:55 PM	RO Lecture 4 Image-Guided Radiation Therapy: A Physician's Perspective Arno Mundt, MD	DI Lecture 4 Spinal Tumors E. Turgut Tali, MD	RRPO Lecture 4 Radiobiology of the Prodromal Responses and Acute Radiation Syndrome Following High Doses	BI Lecture 3 DCIS Imaging Spectrum Asma'a Aldabbagh, MD BI Lecture 4	L7: Image Optimization Cathy Westbrook
			David Lloyd, PhD	Breast MRI Challenges	
2:55-3:20 PM	RO Lecture 5 Workflow and Standardization of the Radiation Therapy Process Dimitre Hristov, PhD	DI Lecture 5 Radiation Exposure in Medical Imaging: Effective Risk/Benefit Communication Techniques Jerrold Bushberg, PhD	RRPO Lecture 5 Biological Dosimetry for Mass Casualties Radiation Events David Lloyd, PhD	Helmuth Schultze-Haakh, PhD BI Lecture 5 Imaging of the Axilla Ruud Pijnappel, MD	

3:20-3:30 PM	Discussion Discussion	Discussion	Discussion	
3:30-4:00 PM		Asr Prayer and	d Coffee Break	
4:00-5:55 PM		Session 9: Panel Discussions		
	Session 9 A: Innovative Approaches in Radiation Therapy Moderators: <i>Mohammed Mohiuddin, MD and</i> Belal Moftah, PhD	Session 9 B: Innovative Approaches in Diagnostic Imaging Moderators: <i>Sattam Lingawi, MD and Ali Almesned,</i> <i>MD</i>	Session 9 C: Innovative Approaches in Radiation Protection & Radiobiology Moderators: <i>David Lloyd, PhD</i> and <i>Jerrold Bushberg, PhD</i>	CEC4 MRI in Practice Nabeel Mishah, MBA
Venue	Hall C	Buraidah Hall	Hall A	AlZumurrud
	RT PD1 Bone Marrow Sparing-IMRT Approaches Arno Mundt, MD	DIRS PD1 Microbubble Contrast Enhanced Ultrasound: Evaluation of Axillary Lymph Nodes Kadria El Haddad, MD	RRS PD1 Radiation Protection in Health Care – Challenges and Opportunities Maria Pérez, MD	
4:10-4:20 PM	RT PD2 Imaging for Stereotactic Radiosurgery and Stereotactic Ablative Body Radiotherapy Mohammed Saiful Huq, PhD	DIRS PD2 Innovations in PET Breast Imaging Techniques Matthew Thakur, MD	RRS PD2 Radiation Protection in Medicine Keith Faulkner, PhD	
4:20-4:30 PM	RT PD3 Partial Breast Irradiation: A New Paradigm Alphonse Taghian, MD	DIRS PD3 MRI Guided HIFU of Breast Tumors: Current Status and Future Ruud Pijnappel, MD	RRS PD3 NCRP Update on Report Activity with Emphasis on Radiation Protection in Medicine Jerrold Bushberg, PhD	L8: Artefacts 1
4:30-4:40 PM	RT PD4 Academic and Clinical Education of Medical Physicists Ervin Podgorsak, PhD	DIRS PD4 Structural and Functional MRI at Ultra-High Field Peter Morris, PhD	RRS PD4 Traceability of Measurements in Radiation Protection Dosimetry Ahmed Meghzifene, PhD	John Talbot
4:40-4:50 PM	RT PD5 Radiation-Inducible Molecular Targets - Using Radiation as a Drug Norman Coleman, MD	DIRS PD5 Innovative Approaches in Radioembolization Riad Salem, MD	RRS PD5 Latest Advances in Luminescent Materials and Radiation Instrumentation Mark Akselrod, PhD	
4:50-5:00 PM	RT PD6 Protons & carbons - myths & realities Pedro Andreo, PhD	DIRS PD6 Advanced Imaging of the Brain for Assessing Anti- Angiogenic Agents Bradley Erickson, MD, PhD	RRS PD6 New OSL Dosimeter for Radioprotection of Personnel Marc Million, PhD	
	RT PD7 Head and Neck Radiotherapy in the era of HPV, hypoxia markers and other non-anatomic prognostic and predictive factors Brian O'Sullivan, MD	DIRS PD7 Innovative Approaches in Internal Radiation Dosimetry Glenn Flux, PhD	RRS PD7 Biodosimetry for Radiation Events David Lloyd, PhD	
5:10-5:20 PM	RT PD8 Warburg Effect – Quo Vadis PET/CT? Slobodan Devic, PhD	DIRS PD8 Innovative Approaches Towards Low Dose CT for Pediatrics and Adults Mannudeep Kalra, MD	RRS PD8	L9: Artefacts 2 John Talbot
5:20-5:50 PM	Discussions All Panelists	Discussions All Panelists	Discussions All Panelists	John Falbot
7:30 PM		Gala I	Dinner	
8:00-10:00 PM		Gala Dinner and Ev Sponsored by <i>Al-Fais</i>		
		Toniae. Interee		

Tuesday, 18 February 2014

TIME 7:00–8:00 AM							egistration ontinental Hotel					
8:00-9:30 AM					Session 1	0: Continuing E	Education Cours	es (Part VI)				
Course No	CEC 1	CEC 2	CEC 3	CEC 4	CEC 5	CEC 6	CEC 7	CEC 8	CEC 9	CEC 12	CEC 13	CEC 14
Course Title	World of Medical Physics	Breast Cancer	Advanced RT Techniques	MRI in Practice	Women's Breast Imaging	Advanced Diagnostic Imaging Techniques	Advanced Nuclear Medicine Techniques	SPECT, PET & CT for Technologists	Health Informatics	Introduction to Radiation Medicine	Radiation Protection & Radiobiology	Scientific Writing & Publishing
Venue	AlFardousa	AlLazurd	Hall C	AlZumurrud	AlMasmak	Buraidah Hall	AlYaqoot	Oasis	Qasr Khozam	AlHareeq	Hall A	AlHaief
Coordinator	Slobodan Devic, PhD	Yasser Khafaga, MD	Rana Mahmood, MD	Nabeel Mishah, MBA	Nuha Khoumais, MD	Lamia Jamjoom, MD	Mahmoud Tuli, MD	Gary Sayed, PhD	Metab Alkubeyyer, MD	Belal Moftah, PhD	Ghazi Alsbeih, MD, PhD	Peter Hall, MD, PhD
Chairpersons	Abdelhamid Saoudi, PhD	Jamal Elhusaini, MD, Abdoulrahman Al Hadab, MD	Maha Al Edrisi, MD, Abdullah Alsuhaibani, MD	John Talbot, MSc; Cathy Westbrook, MSc		Amr Ajlan, MD; Khalid Khashoggi, MD	Hossam El- Zeftawi, MD; Hani Al-Sergani, MD	Lina Hammad, PhD	Moneif Eid	Musaed AlMalki, PhD	Khaled Al- Hadyan, MSc	Peter Hall, MD, PhD; Hilary Russell, PhD
CEC Lecture 8:10-8:30 AM	L17: IMRT – an overview Mohammed Saiful Huq	L5: Breast Boosts Techniques Yassir Bahadur	L5: Patient Selection Criteria for IOERT Benjamin Calvo		L4: DCIS Imaging Update Ruud Pijnappel	L5 CT and MRI of the Aorta Michael Bolen	L5: Cardiac SPECT: Myocardial Perfusion and Viability Ahmed Fathala	L4: Overview of Image Fusion/ Processing Technology and Current Practices Omer Demirkaya	L5: Clinical Image Sharing Technologies for Medical Imaging Enterprises Bradley Erickson	L19: Education and Training Requirements Sitti Ariffin	L5: Variation of Radiosensitivity Between Individuals Ghazi Alsbeih	L5: Getting it Right First Time: Instruction to Authors and Getting it Right First Time: Titles and Abstracts Peter Hall
CEC Lecture 8:30-8:50 AM	L18: Tutorial on Implementation of Image Guided Radio Therapy Nada Tomic	L6: Improving Breast Radiotherapy: from Imaging to Delivery Dimitre Hristov	L6: The Principles of H&N Cancer Management in The Era of IMRT and IGRT Brian O'Sullivan		L5: Mammogram	L6: Esophageal Trauma Francis Scholz	L6: Cardiac PET: Myocardial Perfusion and Viability Mouaz Al-Mallah	L5: A Panoramic Overview of OB/GYN and Emergency Ultrasound Saleh AbdulAly	L6: E-Learning Management System in Imaging Department Metab Alkubeyyer	L20: Health	L6: Patient Dose and Deleterious Effects Ibraheem Al-Anazi	Structure,
			Dilari O Guiivari		Update on The Upcoming			Calcii AbdulAiy		Physics William Parker		Phrasing and Writing Style Hilary Russell
CEC Lecture 8:50-9:10 AM		L7: The Use of Proton Beam in The Treatment of Breast Cancer	L7: RapiArc and RapidPlan Martin Sabel		Version of The BIRADS Lexicon Elizabeth Sutton	L7: CT Guided Biopsy and Ablation in the Chest	L7: Cardiac CT: Combined Assessment of Coronary Artery	L6: Professional Motivational Session	L7: Vendor Neutral Achieve Nabeel Mishah		L7: VOMIT: Victim of Medical Imaging Technology	L7: Getting it Right First Time: Figures, Table and Graphs
	L19-20 Tutorial on Small	Alphonse Taghian				Michael Bolen	and Perfusion Mirvat Alasnag	Saleh Alalaiyan			Nigel Pashely	Peter Hall
CEC Lecture 9:10-9:30 AM	Field Dosimetry Pedro Andreo	L8: Radiation Associated Second Breast Cancer Yasser Khafaga	L8: Advances in Cranial-Spinal Radiation Therapy William Parker		L6: Mammographic Presentation of High Risk Lesions Ruud Pijnappel	L8: QA in Mammography Keith Faulkner	L8: Cardiac MRI: Assessment of Myocardial Perfusion and Viability Scott Flamm	L7: Image Critique Habis Alhalaika	L8: Making the Most of DICOM – Keys to improved workflow Harry Solomon	Biology Ghazi Alsheih	L8: OSL Detectors for Radiation Dosimetry Mark Akselrod	L8: Getting it Right First Time: Other Things Journals Ask for and the Problem of The Cover Letter Metadata Peter Hall
9:30-9:45 AM						Coffe	e Break					

9:45 AM -12:15 PM			ession 11: Plenary Keynote Lectures Venue: Buraidah Hall ns: <i>Ather Radwi, MD and Abdulaziz A</i>							
9:45-10:15 AM	PKN Lecture 4 Advances in Cardiac Imaging, CT and MRI Scott Flamm, MD									
10:15-10:45	PKN Lecture 5 Structural and Functional MRI at Ultra-High Field Peter Morris, PhD									
10:45-11:15	PKN Lecture 6 Molecular Breast Imaging: PET/CT, BSGI and PEM Elizabeth Sutton, MD									
11:15 AW-	PKN Lecture 7 Radioembolization for HCC: State of the S Riad Salem, MD	cience								
11:45-12:15 DM	DIALI seriore 0									
12:15-1:15 PM			Prayer and Lunch Break							
			Trayer and Lancin Dream							
			Session 12: Parallel Tracks II							
1:15-3:30 PM	Session 12 A: Radiation Oncology Track Chairpersons: <i>Mohamed Zaghloul,</i> <i>MD and Mohamed Bayoumy, MD</i>	Session 12 B: Diagnostic Imaging Track Chairpersons: <i>Nizar Nakshabandi, MD and</i> <i>Mohammed Abubacker, MD</i>	Session 12 C: Radiation Protection & Radiobiology Track Chairpersons: Ghazi Alsbeih, MD, PhD and Mark Akselrod, PhD	Session 12 D: Nuclear Medicine Track Chairpersons: Hamad Al-Suhaibani, MD and Abdulraouf Maimani, MD	CEC4 MRI in Practice Chairpersons: <i>John Talbot, MSc and</i> <i>Cathy Westbrook, MSc</i>					
Venue	Hall C	Buraidah Hall	Hall A	AlHareeq	AlZumurrud					
	Medulloblastoma and Ependymoma:	DI Lecture 6 Imaging of Postoperative Breast Elizabeth Sutton, MD	RRPO Lecture 6 Stochastic Biological Effects of Low Dose Radiation Exposure: An Overview Cancer and Noncancer Risks Jerrold Bushberg, PhD	NM Lecture 1 Radioembolization for Colorectal and Other Liver Metastases Riad Salem, MD						
				NM Lecture 2 Personalized Dosimetry and Tumoral Dose						
4 40 0 05 01	Medulloblastoma and Ependymoma: Evolution in Radiotherapy Part II	DI Lecture 7 Genetic Approach to PET imaging of Breast Cancer: Why Do We Need This Approach? Matthew Thakur, MD	RRPO Lecture 7 Responding to a Radiological or Nuclear Terrorism Incident: A Guide for Decision Makers (NCRP Report No. 165)	Intensification with TheraSphere in Hepatocellular carcinoma: A New Personalized Promising Concept Etienne Garin, MD						
			Jerrold Bushberg, PhD	NM Lecture 3 TheraSphere in Other than HCC Indications;						
2.05 2.20 DM	Minimizing Short- and Long-term Complications of Radiation Therapy for	DI Lecture 8 Acute Mesenteric Ischemia Francis Scholz, MD	RRPO Lecture 8 Biological Dosimetry: Two Cases Study David Lloyd, PhD	Renn-es Experience in Cholangiocarci-noma, Contrala-teral Hypertrophy Etienne Garin, MD	L10: k-Space 1 Cathy Westbrook					
	Soft Tissue Sarcoma" Brian O'Sullivan, MD			NM Lecture 4 Lu-177/ Y-90 DotaTate/Toc Therapy in NET Giovanna Pepe, MD						
2:30-2:55 PM	Consistency in Radiotherapy Dosimetry: Current Issues with Reference Quality	DI Lecture 9 MRI in the Management of Patients with Cardiomyopathy Scott Flamm, MD	RRPO Lecture 9 Fundamentals of Luminescent Materials and Instrumentation for Medical Physics and Dosimetry Mark Akselrod, PhD	NM Lecture 5 PET-CT in Lymphoma Salahudin El Naas, MD						
		DI Lecture 10 Dual Energy CT: Approaches and Applications Mannudeep Kalra, MD	RRPO Lecture 10 Quality Assurance and Patient Safety in a Modern Radiation Oncology Department William Parker, MSc	NM Lecture 6 The Role of Radioimmunotherapy in Other B-cell Lymphomas Pier Zinzani, MD						
	Radiation Medicine Ahmed Meghzifene, PhD			Discussion						

3:20-3:30 PM	Discussion	Discussion	Disc	cussion							
3:30-4:00 PM				Asr Prayer and Coffee Break							
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	Session 13: Parallel Sessions										
4:00-5:50 PM	Session 13 A: Who's Who at ICRM 2014 Chairpersons: Sultan AlSedairy, PhD and Khalid AlOthman, MD	Abstracts Chairpersons:	Session 13 C: Medical Physics Abstracts Chairpersons: Ahmad Nobah, MSc and Sami Alshaikh, PhD	Session 13 D: Diagnostic Imaging Abstracts Chairpersons: Khalid Salman, MD and Ali Y. Zailai, PhD	Session 13 E: Radiation Protection & Radiobiology Abstracts Chairpersons: Ghazi Alsbeih, MD, PhD and Khaled Al-Hadyan, MSc	Session 13 F: Technologist Track Chairpersons: Essam Mattar, PhD.	CEC4 MRI in Practice Chairpersons: John Talbot, MSc and Cathy Westbrook, MSc				
Venue	Buraidah Hall	Hall C	AlHareeq	AlYaqoot	Hall A	Oasis	AlZumurrud				
4:00-4:10 PM	 King Faisal Specialist Hospital and Research Centre (KFSH&RC): Prof. Dr. Rashed Al-Rashed Al-Hmaid King Abdullah City for Atomic and Renewable Energy (KACARE): 	RO Abstract 1 The Effect Of Radiotherapy Timing On Loco-regional Recurrence Among Advanced Breast Cancer Patients: A Single Institution Experience G. Al-jawi, W. Basfar, A. Baothman, I. Al- Omary, Y. Bahadur, B Al-Saywid	ROP Abstract 1 Radiochromic Film Dosimetry of Image Guidance Systems in Radiotherapy S. Aldelaijan, A. Nobah, S. Devic, N. Tomic, J. Seuntjens, M. Al Shabanah, B. Moftah	DI Abstract 1 Evaluation of Diffusion Weighted Imaging Techniques for Radiotherapy of Prostate Cancer T. Alharthi , G. Liney, L. Holloway, E. Juresic, L. Cassapi, M. Sidhom, P. Gibbs, D. Manton	RBS Abstract 1 Investigation of Suitable Radiopharmaceutical Production Facility for Different Centers at Different Region of Saudi Arabia S. Miliebari, D. Alothmany	TC Abstract 1 Multimodality Imaging of structure and Function (PET/CT & SPECT/CT) in Eastern Province A. Al-gallaf					
4:10-4:20 PM	Dr. Mohammed Garwan - Saudi Food and Drug Authority (SFDA): Dr. Saleh Al Tayyar	RO Abstract 2 Accelerated Partial Breast Irradiation Dosimetric Study Using 3DCRT and IMRT S. Moorthy, K Jayesh, H. Sakr, S. Mohammed, S. Janahi, J. Sameul, N. Pillai, N. Mohammed, H. Malik, A. Othoob	ROP Abstract 2 Quantification of Dwell Position Inaccuracy and Dose Heterogeneity in 60° Varian Ring & Tandem Applicator using OSL-Nano Dots A. Jangda, S. Ahmed, L. Rehman, M. Naqvi, N. Ali	Neovascularization	RBS Abstract 2 Clostridium Cluster XIVa Species is an Early Biomarker in Radiation Injury R. Papineni, I. Ahmed, W. McLaughlin, S. Umar	TC Abstract 2 Identifying Competencies for Saudi Medical Imaging Technologist Based on Professional Consensus A. Al Hoti					
4:20-4:30 PM	- Ministry of Health (MOH): Dr. Ali Almesned - World Health Organization	RO Abstract 3 Target Equivalent Uniform Dose as a Quality Indicator for Head- and-Neck IMRT Treatment Plans C. Constantinescu, R. Al-Wassia, A. Al-Hebshi, Y. Bahadur	ROP Abstract 3 Delineations of Tumor target Volume on PET/CT images using Active Contour Models I. Al-Saihati, K. Wells, D. Sassi	DI Abstract 3 Evaluation of Patient Doses During CT Angiography H. Omer, A. Sulieman, K. Alzimami, A. Elnour, E. Babikir	RBS Abstract 3 TL Dosimetric Properties of Gamma Irradiated Barium Oxyfluroborate Glass System H. Donya	TC Abstract 3 MRI of Prostate Cancer: Multi Exponential T2 Relaxation in the Prostate W. Alharbi	L11: k-Space 2 Cathy Westbrook				
4:30-4:40 PM	(WHO): Dr. Maria del Rosario Perez - International Atomic Energy Agency (IAEA): Prof. Daud Mohamad	RO Abstract 4 PET and MR Based Selective Dose Escalation With Simultaneous Integrated Boost (SIB) Using Image Guided Intensity Modulated Radiotherapy in Rectum Cancer R. Mahmood, A. AlSuhaibani, M. ElSebaie, N. AlSanea, B. Moftah, M. Mohiuddin	ROP Abstract 4 The Impact of Scatter on CBCT Image Quality and Point Dose Measurements N. Mail, A. Fahad, R. Khan, A. Saoudi, M. Yusuf, H. Natto, F. Nadwi, N. Alothmony, D. Alothmony, N. Molla, S. Natto, A. Kinsara	DI Abstract 4 Thyrotoxicosis: Fifteen Years' Experience of Radioactive Iodine Therapy in Thyrotoxic Patients S. Munayer	RBS Abstract 4 Occupational Radiation Exposure During Interventional Cardiology Procedures A. Sulieman, K. Alzimami, E. Babikir, H. Omer	TC Abstract 4 Neonatal Sacral Dimples: MRI or US? Which Way to Go? K. Alshaye					
4:40-4:50 PM	- National Cancer Institute (NCI): Prof. Norman Coleman	RO Abstract 5 Bone Marrow Sparing Image Guided Intensity Modulated Radiotherapy with Simultaneous Integrated Boost (SIB) in Locally Advanced Cervix Cancer	ROP Abstract 5 Characterization of GAFCHROMIC EBT3 Film as a Radiation Dosimeter for Photon and Electron Beams M. Alasmary, N. Maalej, W. Abdel Rahman	DI Abstract 5 Improving In-Target Production of [13N]-Ammonia using High Energy Proton Beam N. Surendra, <u>F. Al Rumayan</u> , A. Al Gaith, M. Ahmed, M. Al Qahtani	RBS Abstract 5 Software for the Registration of Radioactive Materials and Management of Radioactive Waste M. Ahmed	TC Abstract 5 A Study on Optimum Patient Position for Sonographic Examination of the Kidneys L. Hammad					

M. Hegazy, R. Mahmood, I. Al-Badawi, H. Al-Husaini, C. Higby, B. Moftah

- International Organization

4:50-5:00 PM	of Medical Physics (IOMP): Dr. Tomas Kron - American Association of Physicist in Medicine (AAPM): Prof. Mohammed Saiful Huq	RO Abstract 6 A Comparative Study of Volumetric Intensity Modulated Arc Therapy Versus Conventional IMRT in Head and Neck Cancer Patients M. Daoud, M. Alidrisi, A. Shehata, S. Abdelkhalek	ROP Abstract 6 Feasibility Testing Intra-Operative Radiation Therapy Using Low Energy Protons B. Moftah, F. Alrumayan, S. Aldelaijan, M. Shehadeh, F. al- Zorkany, J. Seuntjens, M. Al Shabanah, S. Devic	Pediatric Cardiac CT: Is Dose	RBS Abstract 6 Radiation Optimization Issues in Diagnostic Radiology Practice: A Saudi Arabia Case Study L. Abdullah, J. Al-Mokhlef	TC Abstract 6 Interventional Radiology and ESRD- HD Patients: Skills Vs. Technology I. Aljediea	
5:00-5:10 PM	- Canadian Organization of Medical Physics (COMP)/Canadian College of Physicist in Medicine (CCPM):	RO Abstract 7 The Comparison Between Two Different Head Rests Used for the Treatment of Head and Neck Cancer in Tomotherapy H. Al Asfor, A. Al Somali, A. Willis, N. Al Rajhi	ROP Abstract 7 Implementation of TG-100 for the Gamma Knife service at PSMMC M. Adili, S. Hassan		RBS Abstract 7 A Reality Check up on Medical Response Team's Preparedness in Facing Radiation Emergency in Malaysia S. Salleh, N. Yusof, A. Idrose		
5:10-5:20 PM	Prof. Ervin Podgorsak - Radiological Society of Saudi Arabia (RSSA): Dr. Ather Radwi	RO Abstract 8 RapidArc Technique Versus 3DCRT in Regards to Organs Preservation A. Alhamad, A. Alzahrani, M. Adili, M. Kandil, M. Aboziada	ROP Abstract 8 Implantable in Vivo Dosimetry Using Gallium Nitride Detector in Radiotherapy A. Chaikh, J. Balosso, J-Y Giraud, P. Pittet	Pulmonary Angiography: Comparing Free Breathing vs.	RBS Abstract 8 Assessment of Occupational Radiation Dose in KFSHRC from 2005 to 2012 B. Moftah, F. Mahyoub, I. Algain, M. Ezzat, T. Salim, M. Ahmed		
5:20-5:30 PM	- Saudi Society of Medical Radiologic Technology (SSMRT): Dr. Essam Mattar	RO Abstract 9 Volumetric-Modulated Arc Therapy (V-MAT) Versus 3D Conformal Involved-Field Mediastinal Radiation Therapy for Hodgkins Disease; A Dosimetric Comparison C. Higby, Y. Khafaga	ROP Abstract 9 Characterization of Two Newly Developed Polymer Gels for Radiotherapy Verification A. Almousa, K. Rabaeh, A. Basfar, A. Al Kafi, B. Moftah	Monte Carlo Modeling of a Mammography X-ray Machine <u>A. Ayaz,</u> N. Maalej	RBS Abstract 9 Establishing Biological Dosimetry Laboratory for the Assessment of Radiation Overexposure in Cases of Radiological Accidents in Saudi Arabia G. Alsbeih, K. Al-Hadyan, S. Elwisy, N. Venturina, M. El-Sebaie, M. Shoukri, B. Moftah		L12: Revision John Talbot
5:30-5:40 PM	- Saudi Oncology Society (SOS): Dr. Essam Murshid	RO Abstract 10 External Beam Radiotherapy Versus Image-Guided High Dose Rate Endorectal Brachytherapy in the Management of Rectal Cancer: A Retrospective Study A. Alsuhaibani, T. Niazi, S. Devic, G. Stroian, R. Hashem, T. Vuong	ROP Abstract 10 Verification of the Craniospinal Radiotherapy in the Supine Position M. Abdulraheem, H. Kanaan, I. Jaradat, A. Ibrahimi, R. Abu-Hijlih, A. Almousa	Optimization of Radiation Dose and Image Quality in Projection Radiography	RBS Abstract 10 The Effect of Extremely Low Frequency Magnetic Fields on Rats Brain O. Abdalla, A. Ahmed, A. Mustafa, A. Eldouma		
5:40-5:50 PM	Society (SMPS): Dr Saleh Bamajboor	Advanced Cervix Cancer - A Dosimetric Comparison	ROP Abstract 11 The Influence of a Modeled Treatment Couch on Dose Distributions in IMRT and RapidArc for High-Energy Photon Beams G. Aldosary, A. Nobah, F. Al- Zorkani, S. Devic, B. Moftah	DI Abstract 11 Enhancement of Ultrasound Images Using Filtering Techniques N. Elmakki, Y. Abdallah			

Wednesday, 19 February 2014

8:00-9:30 AM		Session 14: Continuing Education Courses (Part VII)										
Course No	CEC 1	CEC 2	CEC 3	CEC 4	CEC 5	CEC6	CEC 7	CEC 8	CEC 9	CEC 12	CEC 13	CEC 14
Course Title	World of Medical Physics	Breast Cancer	Advanced RT Techniques	MRI in Practice	Women's Breast Imaging	Advanced Diagnostic Imaging Techniques		SPECT, PET & CT for Technologists		Introduction to	Radiation Protection & Radiobiology	Scientific Writing & Publishing
Venue	AlFardousa	AlLazurd	Hall C	AlZumurrud	AlMasmak	Buraidah Hall	AlYaqoot	Oasis	Qasr Khozam	AlHareeq	Hall A	AlHaief
Coordinator	Slobodan Devic, PhD	Yasser Khafaga, MD	Rana Mahmood, MD	Nabeel Mishah, MBA	Nuha Khoumais, MD	Lamia Jamjoom, MD	Mahmoud Tuli, MD	Gary Sayed, PhD	Metab Alkubeyyer, MD	Belal Moftah, PhD	Ghazi Alsbeih, MD, PhD	Peter Hall, MD, PhD
Chairpersons	Jazi Al-Mokhlef, MSc	Osama AlMalik, MD, Ihab Anwar, MD	Adnan AlHebshi, MD, Eyad Alsaeed, MD,	John Talbot, MSc; Cathy Westbrook, MSc	Noor Alnaimy, MD; Asma Tulbah, MD	Lamia Jamjoom, MD; Mohammad Badran, MD	Ghulam Khan, MD; Salem Sassi, PhD	Khalid Abdulhafeed, BSc	Nabeel Mishah	Abdelhamid Saoudi, PhD	Ibrahim Al-Anzi, MSc	Peter Hall, MD, PhD; Hilary Russell, PhD
CEC Lecture 8:10-8:30 AM	L21: Tutorial on Health Physics William Parker	L9: Intraoperative Radiotherapy in Breast Cancer: The TARGIT Evidence Pedro Lara	perative erapy in Electron Therapy Cancer: (TSET) and Total Body Irradiation Shan Yau	L9: Total Skin Electron Therapy (TSET) and Total Body Irradiation	L7: The Use of Breast US in 2014 Nathalie Duchesne	L9: CT of Pelvic Hernias, Indirect Inguinal Hernia, Direct Inguinal Hernia, Obturator Hernia, Spigelian Hernia Francis Scholz	L9: Introduction to Internal Dosimetry for Molecular Radiotherapy Manuel Bardies	L8: Our Profession and Professionalism Elwin Tilson	L9: Workflow Engines and Content Management Systems: The Next Step for Imaging Departments Bradley Erickson	L22: Radiation Emergencies and Incidents David Lloyd	L9: Optimization of Protection in Mammography Ibraheem Al-Anazi	L9: Submitting your Manuscript Peter Hall
CEC Lecture 8:30-8:50 AM	L22: Tutorial on Electron Beam Therapy William Parker	L10: Intraoperative Radiotherapy (IORT) in Breast Cancer Using Electrons Sergio Maluta	L10: Motion Management in Radiotherapy Tomas Kron	L13: Gradient	L8: Radiology Pathology Correlation	L10: Advanced Imaging in Cerebral AVM from Diagnostic to Endovascular Treatment Raphael Blanc	L10: Clinical applications of Internal Dosimetry to Molecular Radiotherapy Glenn Flux	L9: National and Regional Professional Resources for Technologists Essam Mattar	L10: PACS Implementation Strategy Kostas Chantziantoniou	L23: Future Needs of Medical Physics Services in the Kingdom Refaat AlMazrou	L10: Radiation Protection at Hadron Therapy Facilities Ibrahim Algain	L10: Dealing with Rejection Peter Hall
CEC Lecture 8:50-9:10 AM		L11: Regional Lymph Nodes Radiation: Indications and Complications Alphonse Taghian	L11: IOERT Protocol Studies: Challenges in Implementation Donald Goer	Echo I Cathy Westbrook	Following Breast Biopsy Nanthalie Duchesne	L11: Closed Loop and Internal Hernia Obstructions Francis Scholz	L11: Digital PET/CT- clinical application Medhat Osman	L10: International Professional Resources for Technologists Elwin Tilson, Richard States	L11: Saudi e- health Exchange and the Interoperable Electronic Health Record (iEHR) Ammar Al- Badarneh	L24: Vendor neutral archieve N. Nishant	L11: An Overview of Biological Dosimetry David Lloyd	L11: Publication Ethics Hilary Russell
CEC Lecture 9:10-9:30 AM	L23: Second Practical Examination Ervin Podgorsak	L12: CT-based Treatment Planning: Defining the Target for Breast Radiation Alphonse Taghian	L12: Androgen Suppression and Radiation in the Treatment of Prostate Cancer: Why Do We Sequence Them the Way We Do?" Theodore DeWeese		L9: Digital Breast Tomosynthesis Ruud Pijnappel	L12: Making CT Protocol: Recipe of the Just Right Scanning Ingredients Mannudeep Kalra	L12: Impact of ¹³¹ I SPECT-CT on Nodal Staging of Differentiated Thyroid Ca- rcinoma M. F. Ben Slimene	L11: Graduate Education Opportunities for Technologists Gary Sayed	L12: Saudi National Digital Image Sharing and Tele- Radiology Platform Moneif Eid	L25: Future Opportunities in Radiation Medicine Abdelhamid Saoudi	L12: National Biodosimetry Laboratory in Saudi Arabia Ghazi Alsbeih	L12: Overview and Discussion Peter Hall, Hilary Russell

9:30–9:45 AM Coffee Break

9:45 AM -12:15 PM PKN Lecture 9 Radiation Sciences: Unique Opportunities in Service to Society Norman Coleman, MD PKN Lecture 10 Craniopharyngioma: Disease Control and Late Effects Thomas Merchant, MD PKN Lecture 10 Craniopharyngioma: Disease Control and Late Effects Thomas Merchant, MD PKN Lecture 11 Cr Radiation: The Serious and the Care Worthy Risks Mannudeep Kalra, MD PKN Lecture 12 Hazard or Risk Based Quality Management Program: The Next Frontier for Improving Quality and Patient Safety Mohammed Saiful Huq, PhD The Intersection of Informatics and Medical Imaging Bradley Erickson, MD Closing Ceremony Sultan AlSedairy, PhD – Executive Director KFSH&RC	
9:45-10:15 AM Radiation Sciences: Unique Opportunities in Service to Society Norman Coleman, MD 10:15-10:45 AM PKN Lecture 10 10:45-11:15 AM PKN Lecture 11 10:45-11:15 AM CT Radiation: The Serious and the Care Worthy Risks Mannudeep Kalra, MD 11:15-11:45 PM PKN Lecture 12 11:15-11:45 PM PKN Lecture 12 11:45-12:15 PM PKN Lecture 13 The Intersection of Informatics and Medical Imaging Bradley Erickson, MD 11:45-12:30 PM 11:15-12:30 PM Closing Ceremony	
10:15-10:45 AM Craniopharyngioma: Disease Control and Late Effects Thomas Merchant, MD 10:45-11:15 AM PKN Lecture 11 CT Radiation: The Serious and the Care Worthy Risks Mannudeep Kalra, MD 11:15-11:45 PM PKN Lecture 12 Hazard or Risk Based Quality Management Program: The Next Frontier for Improving Quality and Patient Safety Mohammed Saiful Huq, PhD 11:45-12:15 PM PKN Lecture 13 The Intersection of Informatics and Medical Imaging Bradley Erickson, MD Closing Ceremony Closing Ceremony	
10:45-11:15 AM CT Radiation: The Serious and the Care Worthy Risks Mannudeep Kalra, MD PKN Lecture 12 Hazard or Risk Based Quality Management Program: The Next Frontier for Improving Quality and Patient Safety Mohammed Saiful Huq, PhD PKN Lecture 13 The Intersection of Informatics and Medical Imaging Bradley Erickson, MD Closing Ceremony Closing Ceremony	
11:15-11:45 PM Hazard or Risk Based Quality Management Program: The Next Frontier for Improving Quality and Patient Safety Mohammed Saiful Huq, PhD PKN Lecture 13 The Intersection of Informatics and Medical Imaging Bradley Erickson, MD 12:15-12:30 PM 13:15-12:30 PM	
11:45-12:15 PM The Intersection of Informatics and Medical Imaging Bradley Erickson, MD 12:15-12:30 PM The Intersection of Informatics and Medical Imaging Bradley Erickson, MD Closing Ceremony	
12:30-1:30PM Prayer and Lunch Break	
1:15 PM Bus Pick-up to King Faisal Specialist Hospital & Research Centre	
Venue: King Faisal Specialist Hospital & Research Centre	
1:45 – 5:55 PM Session 16: Continuing Education Courses & Workshop (Part VIII)	
Code CEC4	
Workshop Title MRI in Practice	
Venue KFSH&RC, PGC Auditorium	
Coordinator Nabeel Mishah, MBA Session 17: WORKSHOPS (Part I) (See Below)	
Chairperson John Talbot, MSc; Cathy Westbrook, MSc	
1:45-3:30 PM L14: Gradient Echo II Cathy Westbrook	
3:30 – 4:00 PM Prayer and Coffee Break	
4:00-5:00 PM L15: Flow & MRA John Talbot	
5:00-5:50 PM L16: Quiz John Talbot	
7:30 PM Bus Pick-up to Intercontinental Hotel Evening Presentation and Dinner	
8:00-10:00 PM Sponsored by GE Venue: Intercontinental Hotel	

Session 17: Workshops (Part I): 1:30 PM – 5:30 PM

Code	Venue	Workshop Title	Coordinator		
	RADIATION ONCOLOGY TRACK				
CEC1W1	RC Classroom 304	 World of Medical Physics Introduction to Monte Carlo Simulations, Pedro Andreo Introduction to Radiochromic Film Dosimetry, Slobodan Devic Introduction to 3D Gel Dosimetry Introduction to QA devices 	Dr. Waleed Al-Najjar		
CEC1W2	RC Classroom 304	 Monte Carlo Available Monte Carlo Codes in Radiotherapy Overview of Electron and Photon Transport Monte Carlo Applications in Nuclear Medicine What is "GATE" MC Code? PRIMO - New MC Application 	Mr. Ahmad Nobah		
CEC1W3	RC Classroom 304 and Linear Accelerator Treatment Room 4 (T4)	 QA & Mechanical Dosimetry Devices QA in Radiation Therapy AAPM TG 142 Patient specific QA Practical Sessions 	Dr. Zeinab Hassan		
CEC1W4	RC Classroom 304 and 3D Gel Lab	 3D Gel Dosimetry Preparation of 3D gel Optical CT scanning of the gel Calibration and patient specific QA Practical Sessions 	Mr. Abdullah Al-Kafi/ Eng. Akram Al- Moussa		
CEC1W5	RC Classroom 304 and Tomotherapy/CyberKnife Treatment Planning Room and Linear Accelerator Treatment Room 4 (T4)	 Radiochromic Film Dosimetry Absolute, reference and relative dosimetry. Applications of radiochromic films in dosimetry. Essentials of radiochromic film dosimetry system. New trends in radiochromic film dosimetry Practical Sessions 	Mr. Saad Aldelaijan		
CEC2W1	Oncology Lecture Hall	 Review of clinical cases with emphasis on indications, target volumes, organs at risk, and dose constraints 	Dr. Mohammad Alshabanah		
CEC3W1	Radiation Physics Conference Room	 RapidArc Physics Perspective on Rapid Arc, Martin Sabel Physician Perspective on Rapid Arc, Abdullah Al Suhaibani Dosimetrist Perspective on Rapid Arc, Christine Higby Practical Sessions 	Ms. Christine Higby		
CEC3W2	Oncology Conference Room	 CyberKnife CKS SRS – Radiobiology (& tissue tolerances), Adnan AlHebshi CKS overview/Physics, Abrar Hussain Practical Sessions 	Dr. Abrar Hussain		
CEC3W3	TomoTherapy Planning Room	 TomoTherapy Physics of Using a Helical Treatment System, Maamoun Shehadah Tomotherapy Process, Wedyan Safar Clinical Experience Using Tomotherapy at KFSH&RC, Amin Al Omair Practical Sessions 	Mrs. Wedyan Safar		

CEC3W4	RC Executive Board Room, CT Simulator Room	 IGRT for Radiation Therapists Introduction To IGRT, Julie Pickford Image Guided Radiation Therapy: Clinical Issues, Arno Mundt Image Guided Radiation Therapy: Practical Issues, Tomas Kron Impact of IGRT on Dose and Fractionation, Ahmad Nobah Technology and Immobilization Overview, Mona Al Turaiki Practical Sessionsf 	Mrs. Sameha J Pickford	
CEC3W5	A2 Conference Room / OR20	 Intra-Operative Radiotherapy Clinical and surgical aspect of IORT, Tarek Amin Radiation oncology aspect of IORT, Rana Mahmood IOERT for recurrent rectal cancer and for retroperitoneal sarcoma, Benjamin Calvo IOERT Protocol Studies: Challenges in Implementation, Donald Goer Physics aspects of IORT, Abrar Hussain Practical Sessions 	Mrs. Hind Alselham	
CEC3W6	ORA Meeting Room	 Brachytherapy Brachytherapy for Gynecology: Clinical Aspects, Rana Mahmood Adapting HDR brachytherapy for unusual anatomy of gynecological malignancies, Majid Mohiuddin Image guided brachytherapy, Slobodan Devic Comparison between the miniature HDR Brachytherapy sources Co-60 and Ir-192 used in the MultiSource HDR Brachytherapy Afterloader, Joop Bokhorst 	Mr. Umar Mwidu	
DIAGNOSTIC IMAGING TRACK				
		DIAGNOSTIC IMAGING TRACK		
CEC5W1	PGC Foyer	Ultrasound Pelvic Imaging Basic trans-abdominal/ transvaginal pelvic ultrasound examination Measurement of the endometrial thickness US imaging in early pregnancy Practical Sessions	Dr. Rafat Mohtasib	
CEC5W1	PGC Foyer Radiology Conference Room, Radiology Meeting Room, MR Suite	Ultrasound Pelvic Imaging • Basic trans-abdominal/ transvaginal pelvic ultrasound examination • Measurement of the endometrial thickness • US imaging in early pregnancy	Dr. Rafat Mohtasib Mr. Ibrahim Alabdulaaly	
	Radiology Conference Room, Radiology Meeting Room, MR	Ultrasound Pelvic Imaging • Basic trans-abdominal/ transvaginal pelvic ultrasound examination • Measurement of the endometrial thickness • US imaging in early pregnancy • Practical Sessions MRI Guided Breast Biopsy • MR guided breast biopsy		
CEC5W3	Radiology Conference Room, Radiology Meeting Room, MR Suite	Ultrasound Pelvic Imaging Basic trans-abdominal/ transvaginal pelvic ultrasound examination Measurement of the endometrial thickness US imaging in early pregnancy Practical Sessions MRI Guided Breast Biopsy MRI guided breast biopsy Practical Sessions Ultrasound Guided Breast Biopsy Ultrasound Guided Breast Biopsy Ultrasound guided Breast biopsy and cyst aspiration	Mr. Ibrahim Alabdulaaly	

CEC6W1	PGC Classroom 7	 Basic Cardiac CT Didactic lectures about cardiac CT anatomy, techniques and common pathologies. Hands-on real time reading of cardiac CT cases. Practical Sessions 	Dr. Amr Ajlan
CEC6W2	PGC Classroom 4	 Read with the Expert in Body Imaging Miscellaneous chest / thoracic cases, Mohamed Tan-Lucien Crohn's disease - radiological pathological correlation, Francis Scholtz MR enterography technique and appearances, Salahudin Elnaas Inflammatory diseases of small bowel + Miscellaneous SB diseases, Francis Scoltz 	Dr. Salahudin El Naas
CEC6W3	PGC Classroom 1	 Read with the Expert in Neuroradiology Interesting Cases in Neuroradiology, Mohammad Dogar Unusual cases in Neuroradiology, Irfan Mamoun TBA, Bradley Erickson TBA, Ibrahim Alorainy 	Dr. Irfan Mamoun
CEC6W4	PGC Classroom 8	 Low Dose and Dual Energy CT Imaging Making CT protocols: Recipe of the "just right" scanning ingredients, Dual energy CT: Approaches, Radiation and Applications, Iterative Reconstruction: The new standard for CT. Practical Sessions 	Dr. Mohamed Ziyad Abubacker
CEC7W1	RC BPD Conference Room	 Radionuclide Dosimetry Patient specific vs model-based dosimetry, Manuel Bardies Personalized treatment planning for Molecular Radiotherapy, Glenn Flux Presentation on Monte Carlo techniques for imaging and dosimetry Introduction to practical session Practical Sessions 	Dr. Salem Sassi
CEC7W2	RC BMR Conference Room	 Cyclotrons & Radiopharmaceuticals Introduction to Cyclotrons: Principles and Recent Developments, Introduction to FDG Quality Aspects of Radiopharmaceuticals with Focus on FDG Radiopharmaceuticals for targeted therapy: Basics and Clinical aspects ⁶⁸Ge-⁶⁸Ga Generator Cell's Labelling Research and development of ^{99m}Tc labeled peptide radiopharmaceuticals for targeting of cancer Practical Sessions 	Dr. Faisal Al Rumayan / Mr. Mohammed Alrowaily
CEC7W3	RC BESC Conference Room	 PET/CT QC/QA Daily PET and CT QC procedures. Quarterly calibration. Simulation of the SUV verification scans using a water phantom. Practical Sessions 	Dr. Omer Demirkaya
CEC7W4	Treatment Planning Room	PET/CT in Treatment Planning • Applications of PET-CT in treatment planning • Practical Sessions	Dr. Mohei Eldin Abouzied
CEC8W1	PGC Classroom 3	A panoramic overview of OB/GYN and emergency US for technologists • Practical Sessions	Mr. Ahnaf Arafah
CEC8W2	PGC Classroom 3	SPECT/CT for Technologist • SPECT/CT Imaging, Richard States • PET/CT Imaging, Elwin Tilson • Practical Sessions	Mr. Mohammed Alrowaily

	RADIOBIOLOGY, RADIATION PROTECTION & OTHER TOPICS		
CEC12W1	PGC Classroom 3, tour of medical physics, radiotherapy, cyclotron & radiopharmaceutical and radiology facilities	 Introduction to Radiation Medicine Modalities of Radiation Therapy and Radiology and Their Capabilities. Role of Personnel for Different Radiotherapy and Radiology Modality. Choice of Different Modalities. Practical Sessions 	Mr. Refa'at AlMazrou
CEC13W1	PGC MR2	 Radiobiology and Biodosimetry Radiobiological dose-effect Cell survival curves Molecular biology techniques Principles of biological dosimeters Accidental radiation dosimetry Practical Sessions 	Dr. Ghazi AlSbeih
CEC13W2	Prince Salman Auditorium, tour of radiation protection facilities and devices	 Radiation Protection & Safety Thermo-Luminescence Dosimeter (TLD) Bioassay: thyroid uptake measurement Radiation leak test Management, storage and disposal of radioactive waste Gamma Source Shielding Design Practical Sessions 	Mr. Fareed Mahyoub

Thursday, 20 February 2014

8:00 AM- 12:00 NN	Session 18: Continuing Education Courses & Workshops (Part IX)	
Code	CEC10W1	
Workshop Title	Joint WHO/ IAEA/KFSH&RC Workshop: Basic Safety Standards (BSS) Implementation in Health Care	
Venue	KFSH&RC, Treatment Planning Room	
Coordinator	Maria Pérez, MD / Jehad AlWatban, MD	
Chairperson	Nizar Al-Nakshabandi, MD	
8:00-8:05 AM	L1: Welcome Remarks and Introduction of Speakers, Belal Moftah	
8:05-8:20 AM	L2: Medical Uses of Ionizing Radiation, Trends, Doses and Risks Jerrold Bushberg	
8:20-8:35 AM	L3: Improving Radiation Protection in Medicine- the Bonn Conference and its Call for Action Maria Pérez	
8:35-8:50 AM	L4: Overview of the BSS Revision Process, New General Safety Requirements Maria Pérez	
8:50-9:00 AM	L5: Specific Safety Requirements for Medical Imaging & Therapeutic Procedures Maria Pérez	
9:00-9:10 AM	L6: The new International Basic Safety Standards: How Will it Affect The Medical Physics Practice? Ahmed Meghzifene	
9:10-9:30 AM	L7: Discussion	
9:30-10:00 AM	Coffee Break	Session 19: WORKSHOPS (Part II) (See Below)
10:00-10:10 AM	L8: Patient Protection in Radiotherapy: Perspective of a Radiation Oncologist Mohammad Al-Shabanah	(000 2010 11)
10:10-10:20 AM	L9: Patient Protection in Interventional Radiology: Perspective of an Interventional Radiologist Jehad Al-Watban	
10:20-10:30 AM	L10: Patient Protection in Nuclear Medicine: Perspective of a Nuclear Medicine Specialist Mahmoud Tuli	
10:30-10:40 AM	L11: Practical Aspects of Radiation Protection in PET/CT Imaging Ahmad Alenezi	
10:40-10:50 AM	L12: Patient Dose Reduction in Interventional Radiology Sjirk Boon	
10:50-11:00 AM	L13: Towards Low Dose CT for Pediatrics and Adults Mannudeep Kalra	
11:00-11:15 AM	L14: Role of Professional Societies Panel Discussion	
11:15-11:30 AM	L15: Education and Training Panel Discussion	
11:30-11:45 AM	L16: Communication with Patients and Media Panel Discussion	
11:45-12:00 PM	L17: Role and Impact of Regulation - Fostering a dialogue between health authorities and regulatory bodies Panel Discussion	
12:00 AM- 12:45 PM	Closing Ceremony/Distribution of Certificates Venue: Prince Salman Auditorium	
12:45-1:30 PM	Prayer and Lunch, Venue: <i>RC 1st Floor</i>	
1:30-8:00 PM	Bus Pick-up from KFSH&RC North Tower Entrance to Al-Thumama Desert Camp,	Falcon and Camel Show, and Dinner

Thursday, 20 February 2014 Session 19: Workshops (Part II): 8:00 AM – 12:30 PM

Code	Venue	Workshop Title	Coordinator		
RADIATION ONCOLOGY TRACK					
CEC1W1	Join One of the CEC1 or CEC3 Workshops	World of Medical Physics	Dr. Waleed Al-Najjar		
CEC1W2	Biomedical Physics Department Conference Room	Monte Carlo	Mr. Ahmad Nobah		
CEC1W3	Linear Accelerator T4	QA & Mechanical Dosimetry Devices	Dr. Zeinab Hassan		
CEC1W4	3D Gel Lab +	3D Gel Dosimetry	Mr. Abdullah Al-Kafi/ Eng. Akram Al-Moussa		
CEC1W5	10000XL Scanner Room, Linear Accelerator T4	Radiochromic Film Dosimetry	Mr. Saad Aldelaijan		
CEC3W1	Linear Accelerator T2	RapidArc	Ms. Christine Higby		
CEC3W2	Cyberknife Suite	CyberKnife	Dr. Abrar Hussain		
CEC3W3	Tomotherapy Suite	TomoTherapy	Mrs. Wedyan Safar		
CEC3W4	Linear Accelerator T3	IGRT for Radiation Therapists	Mrs. Julie Pickford		
CEC3W5	OR Room 20	Intra-Operative Radiotherapy	Mrs. Hind Alselham		
CEC3W6	HDR Brachytherapy Suite	Brachytherapy	Mr. Umar Mwidu		
	DIAGNOSTIC IMAGING TRACK				
CEC5W1	PGC Foyer	Ultrasound Pelvic Imaging	Dr. Rafat Mohtasib		
CEC5W2	US Interventional Room 4	Stereotactic Guided Breast Biopsy Using Prone Table Approach	Ms. Manal Abudhais		
CEC5W4	US Room 8	US Guided Breast Biopsy	Ms. Rania Abuaish		
CEC5W5	Classroom 6, Post Graduate Center, KFSH&RC	Digital Breast Tomosynthesis: A Case-Based Approach	Dr. Kadria Elhaddad		
CEC5W6	US Room 3	Breast Elastography	Ms. Rania Abuaish		
CEC5W9	US Interventional Room 5	Tomosynthesis Guided Breast Biopsy	Dr. Kadria Elhaddad		
CEC6W1	PGC Classroom 7	Basic Cardiac CT	Dr. Amr Ajlan		
CEC6W4	PGC Classroom 1	Low Dose and Dual Energy CT Imaging	Dr. Mohamed Ziyad Abubacker		
CEC7W3	RC PET/CT Center	PET/CT QC/QA	Dr. Omer Demirkaya		
	RADIOBIOLOGY, RADIATION F	PROTECTION & OTHER TOPICS			
CEC12W1	PGC Classroom 3, tour of medical physics, radiotherapy, cyclotron & radiopharmaceutical and radiology facilities	Introduction to Radiation Medicine	Mr. Refa'at AlMazrou		
CEC13W1	PGC MR2	Radiobiology and Biodosimetry	Dr. Ghazi AlSbeih		
CEC13W2	Prince Salman Auditorium, tour of radiation protection facilities and devices	Radiation Protection & Safety	Mr. Fareed Mahyoub		

Day 2 - 4 (Monday - Wednesday, 17 - 19 February 2014)

Venue: Intercontinental Hotel – Exhibition Area

12:30-1:30 PM	Session 19: Poster Viewing Sessions
	Poster Session 19A: Radiation Oncology Track
Poster 1	Treatment Planning Optimization for High Dose Rate Vaginal Brachytherapy Using a Multichannel Applicator Y. Bahadur, C. Constantinescu, A. Hassouna, M. Eltaher, N. Ghassal
Poster 2	Uterine Perforation and Dosimetric Implications in HDR Brachytherapy for Carcinoma of the Cervix Y. Bahadur, C. Constantinescu, A. Hassouna, M. Eltaher
Poster 3	Predictive Significance of DNA Double Strand Break Repair on Radiotherapy Induced Acute Skin Reactions in Breast Cancer Patients S. Sadashiva, K. Dattaram, D. Jerard, G. Hassan, K. Sharan, V. Manjunath, S. Kapaettu
Poster 4	Elevated Preoperative Serum CA 15.3 Levels are Associated with Reduced Disease Free Survival: A Single Institutional Experience <u>E. AlSaeed,</u> A. Mutahir
Poster 5	Sequence Variants in DSB Repair Genes and Radiotherapy Induced Acute Normal Tissue Toxicity in Breast Cancer Patients K. Dattaram, D. Jerard, G. Venkatesh, K. Sharan, V. Manjunath, S. Sadashiva
Poster 6	Treatment Planning Comparative Study of Constant Dose Rate IMAT Versus Static IMRT in Cervical and Upper Thoracic Esophageal Carcinoma R. Zhang, W. Bai, Z. Chi, X. Fan, Y. Cao, R. Li
Poster 7	Image Guided Radiotherapy Using Daily (DCBCT) Vs Weekly Cone Beam CT (WCBCT) for Intensity Modulated Radiotherapy (IMRT) of Head and Neck Cancer (HNC) Patients Z. Mulla, M. El Sayed, T. Boubakra, V. Arputharaj
Poster 8	131 I-MIBG Therapy for Malignant Pheochromocytoma H. Hammami, A. Sellem, L. Zaabar, W. Elajmi, Y. Mahjoub
Poster 9	Implementation of IMRT/VMAT in Radiotherapy Department E. Senan, M. El Sayed, Z. Mulla, A. Naga, N. Ghassal
Poster 10	Image-Guided Radiotherapy (IGRT) for Daily Localization of Prostate Cancer With Fiducial Markers: The Variation Between Kilovoltage (KV) and Cone-Beam Computed Tomography (CBCT) Match H. Al Asfor, A. Al Somali, A. Willis, F. Hall, R. Mahmood
Poster 11	Reproducibility of Conformal Radiotherapy in Prostate and Nasopharyngeal Carcinoma Using Electronic Portal Imaging F. Leila, S. Tarek, F. Khawla, F. Zouhir, D. Jamel
Poster 12	Volumetric-Modulated Arc Therapy With a Simultaneous Integrated Boost for Rectal Cancer vs. 3D Conformal Radiation Therapy; A Dosimetric Comparison A. Alsuhaibani, C. Higby, M. ElSebaie, R. Mahmood
Poster 13	Evaluation of Patient Positioning With On-Board Imaging (OBI) KV-KV and CBCT in 3D-Conformal Radiotherapy in Prostate Cancer M. Elghribi, N. Mechiki, S. Oukrif
Poster 14	Clinical Implementation of IntraOperative Electron Radiation Therapy (IOeRT) at KFSHRC T. Amin, A. Azzam, R. Mahmood, Z. Hassan, H. Alselham, M. Hussain, B. Moftah
Poster 15	Estimation of Thyroid Gland Dose and Radiation Risks to Patient Undergoing Computed Tomography Examinations R. Elbushra
Poster 16	Thyroid Carcinoma Associated to Hashimoto Thyroiditis A. Mhiri, I. Elbez, F. Slimène
Poster 17	Success of Radioablation of Thyroid Remnanta After Total Thyroidectomy for Differential Thyroid Carcinoma S. Munayer
Poster 18	Waiting Times from Registration in Clinic and from CT SIM to Start of Treatment as a Quality Indicator for IMRT Cases in the Radiotherapy Department. Z. Mulla, M. El Syed, A. AlHebshi, A. Khasim, C. Gatch
Poster 19	Implementation of Cyberknife into Clinical Practice M.Ibrahim, S. Khalil, D. King, C. Rahill
Poster 20	Quality of Life of Gynaecological Cancer Patients Receiving Radiotherapy Treatment at the Oncology Department of the Komfo Anokye Teaching Hospital V. Atuwo-Ampoh, E. Fiagbedzi
Poster 21	To Compare Combi-Fix Immobilization Versus Personalized Vaclock Immobilization and it's Accuracy in Pelvic Radiotherapy at King Faisal Specialist Hospital and Research Centre, Using Orthogonal KV Images M. Al-Turaiki, S. Boumouglbay
Poster 22	Use of MIP in 4D-CT Derived Composite CT Images in the Planning of Stereotactic Body Radiotherapy (SBRT) in Liver cancer <u>G. Wadhawan</u> , R. Thiyagarajan
Poster 23	A Marker-less Patient Positioning System with Six Degree of Freedom for Patient Positioning in External Beam Radiotherapy M. Tayeb, M. Nowaimi
Poster 24	Simultaneous Bilateral Chest Wall Irradiation in Bilateral Breast Cancer: Can Tomotherapy Improve Dose Distribution? A. El-Ashwah, W. Safar, A. Mousa, M. Al-Shabanah
Poster 25	Cyberknife Stereotactic Radiosurgery (CK-SRS) with Fiducial Tracking for Prostate cancer - KFSHRC experience R. Mahmood, M A Hussain, Hegazy, M ElSebaie

	Poster Session 19B: Medical Physics Track
Poster 26	Calibration of Treatment Time Intensity Modulated EPID Images for Anatomical Imaging M. Al Roumi, A. Fielding, D. Warne, K. Biggerstaff
Poster 27	Evaluation of a 2D Diode Array (MapCheck2) for IMRT Quality Assurance Experience at SKMCH@RC M. Rafaye, K. Iqbal, S. Buzdar
Poster 28	Calibration of Lanthanum Bromide Gamma-ray Scintillation Detectors M. Abbas
Poster 29	The Effect of Intravenous Contrast Agent on Dose Calculation in Computed Tomography Based Radiotherapy Planning C. Constantinescu, Y. Bahadur, N. Ghassal, A. Hassouna, M. Naseem, A. Abunar
Poster 30	Audit of TPS Photon Beam Dataset for Small Field Output Factors Using OSLDs against RPC Standard Dataset A. Yousuf, A. Jangda, A. Hussain, S. Mushkin, S.Hussain, M. Naqvi
Poster 31	Assessment of Field Size on Radiotherapy Machines Using Texture Analysis Y. Abdallah, M. Boshara
Poster 32	Energy and SSD Dependence of Electron Beam Depth Dose Parameters; A Single LINAC Observation M. Rahman, S. Banu
Poster 33	The Implementation of In-House Algorithm for IMRT Dose Verification A. Setiadi, R. Taurisia, S. Pawiro
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Poster 38	Image Adapted High Dose Rate Brachytherapy (HDR) at KFSHRC Based on GEC-ESTRO Guidelines U. Mwidu, R. Mahmood, M. Hegazy, Z. Hassan, B. Moftah, M. Neimatallah
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