



# SPEAKERS



**Abdullah Abu Jamea, PhD**  
Assistant Professor & Consultant Medical Physicist, KSU & King Khaleid, University Hospital Riyadh, Saudi Arabia



**Abulrahman Alfuraih, PhD**  
Assistant Professor, Ultrasound Prince Sattam Bin Abdulaziz University, Alkharj, Saudi Arabia



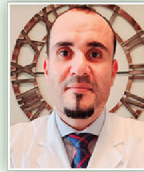
**Adel Mustafa, PhD**  
Chief, Diagnostic Radiology Physics Director, Yale Diagnostic Medical Associate Professor, Dept. of Radiology and Biomedical Imaging, Yale University School of Medicine/Yale New Haven Hospital, New Haven, USA



**Ahmed Masawi, MSc**  
Research/Technical Specialist, Biomedical Physics Dept. King Faisal Specialist Hospital & Research Centre Riyadh, Saudi Arabia



**Atiyah Yahya, PhD, FCCPM, P.Eng.**  
Medical Physicist, Dept. of Medical Physics, Cross Cancer Institute Associate Professor, Department of Oncology, University of Alberta Edmonton, Alberta, Canada



**Bassem Elshahat, PhD, DABR, MCCPM, MCCPM**  
Medical Imaging Physicist, Assistant Professor, OUWB school of Medicine Beaumont Health, Royal Oak, Michigan Adjunct Professor, Memorial University, Canada



**Belal Moftah, PhD, FCCPM**  
Chairman, ICRM2022 Chairman, Biomedical Physics Department, King Faisal Specialist Hospital & Research Centre Riyadh, Saudi Arabia Adjunct Professor, McGill University, Montreal, Canada



**Enas Omari, PhD**  
Assistant Professor Dept. of Radiation Oncology Medical College of Wisconsin Milwaukee, Wisconsin, USA



**Fahad Abdulkhalq, MSc**  
Medical Physicist, Diagnostic Imaging King Abdulaziz Medical City Jeddah, Saudi Arabia



**Habib Alsaleh, PhD**  
Medical Physicist, Radiation Oncology Physics Section, Biomedical Physics Department, King Faisal Specialist Hospital & Research Centre, Riyadh, Saudi Arabia



**Konstantinos Chantziantoniou, MSc**  
Consultant Medical Physicist, Radiology PACS & IT Consultant Team lead, Imaging Support Team, Johns Hopkins Aramco Healthcare, Radiology Imaging Department, Dhahran, Saudi Arabia



**Mohammad Hassan Kharita**  
Director, Radiation Safety Hamad Medical Corporation Doha, Qatar



**Omar Noor, MSc**  
Diagnostic Imaging Physicist, Biomedical Physics Department King Faisal Specialist Hospital & Research Centre Riyadh, Saudi Arabia



**Timothy Szczykutowicz, PhD, DABR**  
Associate Professor Departments of Radiology, Medical Physics and BME University of Wisconsin Madison Madison, Wisconsin, USA



**Walter Block, PhD**  
Vice Chair, for Mentorship, Diversity and Strategic Collaborations Professor, MRI Imaging Associate Professor, Department of Biomedical Engineering, University of Wisconsin School of Medicine & Public Health, Madison, Wisconsin, USA

# PROGRAM SCHEDULE

## Diagnostic Imaging Physics Review Course

Saturday, February 12, 2022

### SESSION I: Digital Radiography Physics

Moderators: Belal Moftah and Omar Noor

13:00	Digital Radiography Imaging Chain Overview	Mahmoud Ahmed
13:40	Digital Detectors & AEC	Fahad Abdulkhalq
14:10	Image Processing, Artifacts and Image Quality Assessment	Konstantinos Chantziantoniou
14:50	Digital Radiography Annual Physics QC	Mohammed Kharita

15:30 BREAK

### SESSION II: CT Physics

Moderator: Konstantinos Chantziantoniou

16:00	CT Physics: Principles and advances of CT	Adel Mustafa
16:40	CT Dosimetry	Adel Mustafa
17:20	CT ACR/ Annual Physics QC	Timothy Szczykutowicz

18:00 BREAK

### SESSION III: Ultrasound

Moderator: Maryam Alhashim

18:30	Ultrasound Physics: Principles and Current Vendor Technologies	Eenas Omari
19:00	Advance US Techniques	Abdulrahman Alfuraih
19:30-20:00	US Annual Physics QC	Eenas Omari

Sunday, February 13, 2022

### SESSION IV: Digital Mammography Physics

Moderator: Abdullah Aldossari

13:00	Mammography Physics: Principles & Current Vendor Technologies	Bassem Elshahat
13:40	Breast Screening: Contrast Enhanced & MRI/ US Mammography	Bassem Elshahat
14:10	Mammography Quality Control tests: Technologist and Physicists	Bassem Elshahat
14:50	ACR accreditation: Do's and Don'ts	Bassem Elshahat

15:30 BREAK

### SESSION V: MRI Physics

Moderator: Habib Saleh

16:00	MRI Physics	Atiyah Yahya
16:40	MRI Image Formation	Walter Block
16:40	Pulse Sequences	Abdullah Abu Jamea

18:00 BREAK

### SESSION VI: MRI Physics

Moderator: Abdullah Abu Jamea

18:30	MRI Artifacts	Walter Block
19:00	MRI Annual Physics QC	Habib Saleh
19:30-20:00	MR Safety	Ahmed Masawi

# 7<sup>th</sup> INTERNATIONAL CONFERENCE ON RADIATION MEDICINE

Virtual Event, Hosted by King Faisal Specialist Hospital & Research Centre, Riyadh, Saudi Arabia

12 - 16 RAJAB 1443 | 13 - 17 FEBRUARY 2022

CLINICAL APPLICATIONS AND INNOVATIVE APPROACHES

## Medical Physics Track



# Diagnostic Imaging Physics Review Course

Saturday-Sunday, 12 - 13 February 2022

### Course Coordinators:

Omar Noor, MSc  
Habib Alsaleh, PhD  
Maryam Alhashim, PhD



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