

SPEAKERS/ INSTRUCTORS



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2017 RADIATION IN MEDICINE SYMPOSIUM & WORKSHOP

KING FAISAL SPECIALIST HOSPITAL &
RESEARCH CENTRE, RIYADH, SAUDI ARABIA
12 - 16 FEBRUARY 2017



QUALITY CONTROL OF CT SCANNERS: ACR TESTING *Track*

For more information, please contact
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WEDNESDAY-THURSDAY, 15-16 FEBRUARY 2017
VENUE: POST-GRADUATE CENTRE

CHAIR: Omer Demirkaya, PhD
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PROGRAM LAYOUT

COURSE DESCRIPTION

This one and half -day course will be comprised of didactic lectures for a day and hands-on Labs for half a day. In didactic lectures we will discuss the latest CT technologies, quality control issues, protocol optimization, as well as advanced topics such as cardiac imaging techniques. The labs will be held at King Faisal CT facilities with the latest CT scanners from different vendors.

COURSE OBJECTIVE

1. Review the latest CT technologies
2. Review of dose indices in CT
3. Discuss the cardiac imaging techniques in CT
4. Review the factors that determine image quality and dose in CT procedures and understand the concept of protocol optimization
5. Determine the technical sources of artifacts in CT and review continuous quality control procedures
6. Gain familiarity with ACR Image quality and dose testing procedures

DAY 1, WEDNESDAY, FEBRUARY 15, 2017

Time	Mins	
07:30 – 08:30	60	Registration
SESSION I		
08:30 – 09:00	30	Latest Advances in CT Technology: Hardware and Software Speaker: Dr. Mahadevappa Mahesh
09:00 - 09:30	30	CT Technique Factors Affecting Image Quality and Dose Speaker: Dr. Omer Demirkaya
09:30 - 10:00	30	Dual Energy CT and Its Clinical Applications Speaker: Dr. Mahadevappa Mahesh
10:00 - 10:15	15	MORNING BREAK
SESSION II		
10:15 - 10:55	40	CT Dosimetry: Modern Dosimetry Concepts Speaker: Dr. Abdullah A. Abuhaimeed
10:55 - 11:30	35	Cardiac Imaging in CT Speaker: Dr. Mahadevappa Mahesh
11:30 - 12:00	30	Image Artifacts in CT: Causes and Remedies Speaker: Dr. Salahudin Elnaas
12:00 - 13:15	75	PRAYER & LUNCH BREAK
SESSION III		
13:15 - 13:45	30	CT Protocol Optimization Process - Johns Hopkins Experience Speaker: Dr. Mahadevappa Mahesh

13:45 – 14:15	30	Radiologist's Perspective on Optimizing CT Protocols in Cardiac and Pediatric Imaging Speaker: Dr. Ahmed Fathalla and Dr. Ahmed Al-Zahrani,
14:15- 14:35	20	CT Daily QC Tests and Calibrations Speaker: Dr. Omer Demirkaya
14:35 - 15:05	30	Introduction to ACR Accreditation Process Speaker: Dr. Mahadevappa Mahesh
15:05 - 15:30	25	ACR Image Quality Testing Speaker: Mr. Mahmoud Ali Ahmed
15:30 - 16:00	30	PRAYER & AFTERNOON BREAK
SESSION IV		
16:00 - 16:45	45	ACR CT Dose Testing Speaker: Mr. Kostas Chantziantoniou

DAY 2, THURSDAY, FEBRUARY 16, 2017

Time	Mins	
WORKSHOP		
08:30 – 12:30	4hrs.	Practical Session: Lab1: ACR Image Quality Measurements Lab2: CT Dose Measurements Lab3: Image Analysis & Measurements Instructors: Omer Demirkaya, Kostas Chantziantoniou, Mahmoud Ali Ahmed, Saad Al Enazi & Dr. Mahesh