

SPEAKERS/INSTRUCTORS



MOHAMED ABDELSATTAR BAYOUMI, PhD, FIPEM
Senior Specialist of Medical Physics,
Nuclear Medicine Department, King Abdulaziz
Specialist Hospital, Sakaka Al Jouf, Saudi Arabia



AHMED ALENEZI, PhD, DABSNM
Head of Nuclear Medicine Physics
Department of Medical Physics
Prince Sultan Military Medical City, Riyadh, Saudi Arabia



OMER DEMIRKAYA, PhD, DABSNM
Senior Scientist, Head, Imaging Physics Section
Biomedical Physics Department
KFSH&RC-Riyadh, Saudi Arabia



ABDULWAHAB ALHARITHI, BSc
Senior Technologist, Nuclear Medicine Section
Radiology Department
KFSH&RC-Riyadh, Saudi Arabia



MOHAMED ONAIZAN, BSc
Supervisor, Nuclear Medicine Section
Radiology Department
KFSH&RC-Riyadh, Saudi Arabia



REFAAT AL-MAZROU, MSc, FIPEM
Deputy Chairman,
Biomedical Physics Department
KFSH&RC-Riyadh, Saudi Arabia



SARA ALMANEA, MSc
Senior Technologist, Nuclear Medicine Section
Radiology Department
KFSH&RC-Riyadh, Saudi Arabia



RICHARD MEADES, MPhys, MSc, DipIPEM, CSci, MInstP, MIPEM
Principal Nuclear Medicine Physicist
Radiological Sciences Unit
Imperial College Healthcare NHS Trust, London, UK



AHMAD ALMUHAIDEB, MD
Consultant, Nuclear Medicine Section,
Radiology Department
KFSH&RC-Riyadh, Saudi Arabia



MESHARI AL-NUAIMI, PhD
Head, Radiation Physics Department
Kuwait Cancer Control Centre (KCCC)
President, Kuwait Association of Medical Physics



SALEM AHMED SASSI, PhD, MIPEM
Senior Consultant Medical Physicist, Head, Diagnostic
Imaging Physics, Department of Medical Physics
Prince Sultan Military Medical City, Riyadh, Saudi Arabia



NOHA ALSREAR, MSc
Senior Nuclear Medicine Radiopharmacist
Radiology Department
KFSH&RC-Riyadh, Saudi Arabia



MAHMOUD TULI, MD
Consultant, Nuclear Medicine Section,
Radiology Department
KFSH&RC-Riyadh, Saudi Arabia

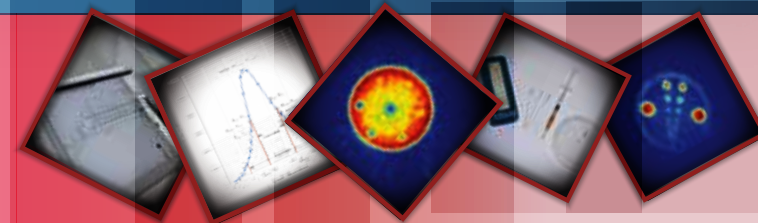


مستشفى الملك فيصل التخصصي ومركز الأبحاث
King Faisal Specialist Hospital & Research Centre
Gen. Org. مؤسسة عامة



2017 RADIATION IN MEDICINE SYMPOSIUM & WORKSHOP

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



QUALITY CONTROL OF

SPECT SYSTEMS

Track

MONDAY-WEDNESDAY 13-15 FEBRUARY 2017

VENUE: POST-GRADUATE CENTRE

For more information, please contact

Ms. Josephine Veridiano,
Biomedical Physics Department
Email: josfin@kfshrc.edu.sa,
Phone No.: +966 (11) 4427879,
Fax No.: +966 (11) 4424777

CHAIR: Mr. Refaat Al-Mazrou
Email: Mazrou@kfshrc.edu.sa
Tel. No.: 0112162919 ext. 49268

PHYSICS TRACK

1. To educate the users with the new advances of the Gamma Cameras including SPECT and SPECT/CT systems.
2. To give overview of the different components of the available systems.
3. To provide information on state-of-the-art different clinical procedures including some image artifacts due to Radiopharmaceuticals and system malfunctions.
4. To explain and discuss the theory and practical side of the major Quality Control procedures of the gamma camera including the SPECT and SPECT/CT systems.
5. To demonstrate the important quality control testing methods on these systems.
6. To allow participants to learn phantoms and sources preparation
7. To show the methods of processing and analysis of the images.
8. To give an introductory to some clinical nuclear medicine protocols.
9. To show detailed description of Myocardial perfusion, Thyroid, Bone and Renal procedures.

TECHNOLOGIST TRACK

1. To educate the users with the new advances of the Gamma Cameras including SPECT and SPECT/CT systems.
2. To give overview of the different components of the available systems.
3. To provide information on state-of-the-art different clinical procedures including some image artifacts due to Radiopharmaceuticals and system malfunctions.
4. To explain and discuss the theory and practical side of the major Quality Control procedures of the gamma camera including the SPECT and SPECT/CT systems.
5. To demonstrate the important quality control testing methods on these systems.
6. To give an introductory to some clinical nuclear medicine protocols.
7. To show detailed description of Myocardial perfusion, Thyroid, Bone and Renal procedures.

PROGRAM LAYOUT

DAY 1, MONDAY, FEBRUARY 13, 2017

Time	Mins	
07:30 - 08:30	60	Registration
SESSION I		
08:30 - 09:15	45	L1: Basics of Gamma Camera, SPECT and SPECT/CT Speaker: Dr. Salem Sassi
09:15 - 09:45	30	L2: Introduction to Quality Control of Gamma Camera including SPECT/CT Speaker: Mr. Refaat AlMazrou
09:45 - 10:15	30	L3: Quality Control of CT Scanners Speaker: Dr. Omer Demirkaya
10:15 - 11:00	45	OPENING CEREMONY
SESSION II		
11:00 - 11:30	30	L4: Quality Management and Safety in Nuclear Medicine Services Speaker: Dr. Meshari Al-Nuaimi
11:30 - 12:00	30	L5: Optimization of Image Acquisition and Processing in SPECT and SPECT/CT systems Speaker: Richard Meades
12:00 - 13:15	75	PRAYER & LUNCH BREAK
SESSION III		
13:15 - 13:45	30	L6: Current State of the Art in SPECT/CT Speaker: Richard Meades
13:45 - 14:15	30	L7: Image Artifacts in Gamma Camera, SPECT and SPECT/CT Speaker: Mr. Refaat AlMazrou
14:15 - 14:45	30	L8: Dose Optimization in SPECT/CT (Image Gently, Image Wisely) Speaker: Dr. Salem Sassi
14:45 - 15:30	45	L9: QC of Radiopharmaceuticals Speaker: Mrs. Noha AlSrear
15:30 - 16:00	30	PRAYER & AFTERNOON BREAK
SESSION IV		
16:00 - 16:30	30	L10: Clinical Indications of SPECT/CT Speaker: Dr. Mahmoud Tuli
16:30 - 17:00	30	L11: Patient Dosimetry in SPECT/CT Speaker: Richard Meades

DAY 2, TUESDAY, FEBRUARY 14, 2017

Time	Mins	
SESSION V		
08:30 - 09:00	30	L12: Introduction to Clinical Nuclear Medicine Procedures Speaker: Dr. Ahmad Almuhaideb
09:00 - 09:430	30	L13: Myocardial Perfusion Procedures Speaker: Mr. Abdulwahab Alharithi
09:30 - 10:00	30	L14: Bone and Renal Scan Procedures Speaker: Ms. Sara Almanea
10:00 - 10:15	15	PRAYER & MORNING BREAK
SESSION VI		
10:15 - 10:45	30	L15: Thyroid Scan Procedures Speaker: Mr. Mohamed Onaizan
10:45 - 11:15	30	L16: Description of the Energy Windowing, Intrinsic & Extrinsic Uniformities, Bar Phantom, Extrinsic Resolution, Sensitivity & Maximum Count Rate tests Speaker: Mr. Refaat AlMazrou
11:15 - 12:00	45	L17: Description of Center of Rotation (COR), Total Performance (SPECT) Accuracy of Attenuation Correction, Accuracy of Image registration and Linearity of Conversion of CT-HU tests in SPECT/CT systems Speaker: Dr. Salem Sassi
12:00 - 13:00	60	PRAYER & LUNCH BREAK
WORKSHOP		
13:00 - 17:00	240	Practical A: Technologists Track (Quality Control of Radiopharmaceuticals Labeling) Practical B: Physics Track (Tests of Energy Windowing, Intrinsic & Extrinsic Uniformities, Bar Phantom, Extrinsic Resolution, Sensitivity & Maximum Count Rate)
DAY 3, WEDNESDAY, FEBRUARY 15, 2017		
Time	Mins	
WORKSHOP		
08:30 - 13:30	240	Practical Session C: Physics Track (Tests of Center of Rotation (COR), Total Performance (SPECT), Accuracy of Attenuation Correction, Accuracy of Image registration and Linearity of Conversion of CT-HU in SPECT/CT systems) Speaker: