RADIATION IN MEDICINE COURSES & WORKSHOPS

King Faisal Specialist Hospital & Research Centre, Riyadh, Saudi Arabia

Radiobiology, Biodosimetry & Medical Radiological Emergency Preparedness

February 13, 2019 | Venue: KFSH&RC

Program Highlights

Learning Objectives
Discuss biological effects of ionizing radiation and their potential health hazards along with the recent developments in radiobiology and its application in biodosimetry, radiation countermeasures, and radiation emergency preparedness. It will also familiarize attendees with practical demonstrations with hands-on demos of methods and procedures used to estimate accidental radiation exposures.

Workshop Description
- Blood samples collection, lymphocytes stimulation & irradiation
- XRAD-320 biological irradiator
- Principle of biological dosimeters & application in accidental radiation exposure
- Cytophenic biodosimetry assays: chromosomal aberrations, including dicentrics, micro-nuclei & gamma-H2AX foci
- Slides preparation
- Results visualization using Metafer System, aberrations scoring & data acquisition
- Construction of the dose-response calibration curve
- Estimating accidental radiation doses received

Speakers

Ghazi Al-Sibeihi, MD, PhD  
Principal Scientist and Head, Radiation Physics Section, Biomedical Physics Department, KFSH&RC, Riyadh, Saudi Arabia

Shahrukh Hashmi, MD  
Consultant, Hematology, Bone Marrow Transplantation Director, LTU Clinic, Oncology Centre, KFSH&RC, Riyadh, Saudi Arabia

Shaza Watfa-Ramahi, PhD, DABR  
Chief Medical Physicist, Biomedical Physics Department, KFSH&RC, Riyadh, Saudi Arabia

Andrew Friend, MA, CEM  
Deputy Clinical Specialist, Quality Management Division, Hospital Safety Committee, KFSH&RC, Riyadh, Saudi Arabia

Krishna Mishra, PhD  
Research Associate, Radiation Biology Section, Biomedical Physics Department, KFSH&RC, Riyadh, Saudi Arabia

Khaled Alhadyani, MSc  
Facultly, Medicine & Health Sciences, University of Nottingham, UK, Biomedical Physics Department, KFSH&RC, Riyadh, Saudi Arabia

Instructors
- Najla Al-Harbi, BSc, Research Associate, Radiation Biology Section, Biomedical Physics Department, KFSH&RC, Riyadh, Saudi Arabia
- Sara Bin Jadia, BSc, Research Technician, Radiation Biology Section, Biomedical Physics Department, KFSH&RC, Riyadh, Saudi Arabia
- Maha Al-Rushdi, MSc, Research Technician, Radiation Biology Section, Biomedical Physics Department, KFSH&RC, Riyadh, Saudi Arabia

Course Fee (Early Registration Deadline: January 21, 2019)
Early Registration: SR 300 | Late Registration: SR 400 | Residents, Students, Technologists: 25% discount

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