



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

رؤية
VISION
2030
المملكة العربية السعودية
KINGDOM OF SAUDI ARABIA

2019

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

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CME HRS



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
- Cytogenetic biodosimetry assays: chromosomal aberrations, including dicentric, 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



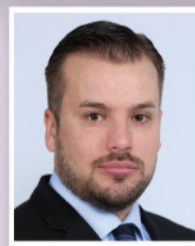
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- **Maha Alrashdi, MSc**, Research Technician, Radiation Biology Section, Biomedical Physics Department, KFSH&RC, Riyadh, Saudi Arabia

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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