



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



ICRM2022

7th 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

WS Code: RPW4

Title: Shielding Calculation and Verification

Scientific Track: Radiation Protection

Chair: Mehenna Arib, PhD

Date & Time: Thursday 17 February 2022, 15:40 – 18:00

Venue: Virtual

Coordinator: Mehenna Arib, PhD

Workshop Faculty: Hesham Alhamdan

Time : 15:40 – 18:00

Target Audience:

Radiation safety officers, Health and medical physicists, Nuclear medicine and medical imaging professionals and Radiologic technologists and radiologists

Workshop Description:

Participants in this workshop will gain practical experience in the shielding calculation for gamma irradiation facilities and Diagnostic radiology rooms. In addition, they will learn how to perform shielding verification of medical facilities using a radioactive source and a sensitive detector

- Basics of shielding calculation
- Example of shielding calculation of nuclear medicine facility
- Example of shielding calculation using the Gamma Dose Constant
- Presentation of the shielding verification procedure used by the KFSHRC staff
- Example of shielding verification of a Hot Lab
- Establishment of Excel worksheet
- Shielding verification report

Learning Objectives:

- Acquire the knowledge on basic concepts and principles of shielding calculation
- Gain a clear understanding, skills and methodologies for shielding verification using a radioactive source and a radiation detector