



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

ROW08: Shielding Calculations for Radiotherapy

Date: Wednesday 16 Feb 2022

Time: 18:30-21:00

Venue: Virtual, Live

Coordinator: Wamied Abdel-Rahman

Workshop Faculty: Wamied Abdel-Rahman

Target Audience: Medical physicists and Health physicists

Prerequisites: Familiar with NCRP Report 151 and treatment techniques by a Megavoltage multi-energy clinical linear accelerator.

Workshop Description: NCRP Report 151 will be used to determine adequacy of a proposed shielding design for a bunker. First, workloads will be estimated for a typical clinical megavoltage radiotherapy clinical treatment unit. Shielding design will be evaluated for primary and secondary barriers.

Learning Objectives: Estimation of a typical workload of a multi energy Megavoltage photon and electrons clinical linear accelerator and applying NCRP Report 151 for determination of shielding requirements for its bunker.