



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



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

MPW01: Fluoroscopy Annual Physics QC

Date & Time: Wednesday, 16 February 2022, 18:30 - 21:00

Venue: Online

Coordinator: Omar Noor

Workshop Faculty: Mahmoud Ahmed

Target Audience: Medical physicists

Prerequisites:

- 1- Laptop or Pc.
- 2- Fluoroscopy QC Simulation Software

Workshop Description:

The course is a lecture simulation on the quality control of fluoroscopy equipment. It will be both didactic and inductive method of teaching that will cover all quality control tests required for testing performance characteristics of fluoroscopy.

Objectives:

To become familiar with the specific requirements related to QC concepts in fluoroscopy.

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The participants should be able to:

- 1- Develop and maintain an effective quality control program
- 2- Conduct the following quality control tests for fluoroscopy equipment:

1- Operational radiation safety Characteristics
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2- kVp Accuracy & reproducibility
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3- Typical Entrance Air Kerma Rate
4- Maximum Incident Air Kerma Rate
5- Image Intensifier Input Air Kerma Rate
6- Automatic Intensity control & AEC Reproducibility
7- Half Value Layer (Direct measurement)
8- Dose Area Product
9- Low Contrast Detectability
10- High Contrast Spatial Resolution