





ICRM2022

th 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

MPW03: Computed Tomography Annual Physics QC

Date & Time:

Venue: Online

Coordinator:

Workshop Faculty: Mahmoud Ahmed

Target Audience: Medical physicists

Prerequisites:

- 1- Laptop or Pc.
- 2- Computed Tomography QC Simulation Software

Workshop Description:

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

Objectives:

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

The participants should be able to:

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

1. OPERATING PROCEDURES

2- RADIATION SAFETY EQUIPMENT AND ACCESSORIES

3- GENERAL CHARACTERISTICS AND PERFORMANCE REQUIREMENTS.
4- Localization Light Accuracy
5- SLICE THICKNESS ACCURACY
6- CT NUMBER ACCURACY
7- LOW CONTRAST RESOLUTION
8- HIGH CONTRAST RESOLUTION
9- NOISE, ARTIFACTS & UNIFORMITY
10- RADIATION DOSE (CTDI)