Shaukat Khanum Memorial Cancer Hospital and Research Centre

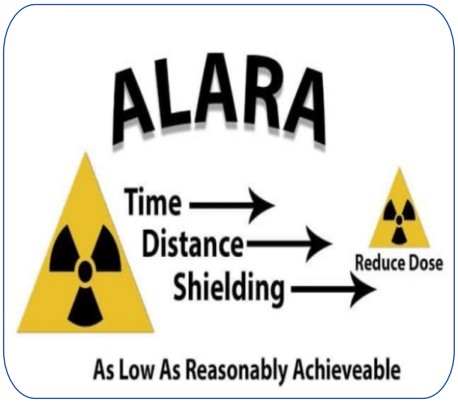
25th Shaukat Khanum Cancer Symposium

RADIATION SAFETY IN MEDICAL IMAGING: PRACTICAL STRATEGIES FROM A CANCER CENTRE

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Introduction

Radiation safety is a fundamental responsibility of Medical Imaging Technologists. In a cancer centre such as Shaukat Khanum Memorial Cancer Hospital and Research Centre (SKMCH&RC), where patients often undergo multiple imaging examinations as a part of diagnosis, treatment and followup, strict adherence to radiation protection principles is vital to minimize unnecessary radiation exposure.



Objectives:

- To describe practical radiation safety measures implemented by Medical Imaging Technologists during imaging procedures at SKMCH&RC.
- To highlight the role of patient identification, pregnancy screening, protocol optimisation, shielding where appropriate, and quality assurance in reducing radiation exposure.
- To emphasise occupational radiation protection practices.

Discussion:

Radiation safety at SKMCH&RC is achieved through a multidisciplinary approach involving Medical Imaging Technologists, radiologists and medical physicists teams. Practical measures include verification of patient identification and examination requests, application of the ALARA (As Low As Reasonably Achievable) principle, use TDS (Time Distance Shielding), regular equipment quality control, and continuous monitoring of occupational radiation exposure using personal dosimeters. Technologists also maintain appropriate documentation, and participate in ongoing radiation training programmes to ensure radiation safety measures.







Conclusion:

Medical Imaging Technologists play a central role in radiation protection through protocol optimisation, quality assurance, occupational monitoring, and continuous professional development. The radiation safety programme at SKMCH&RC provides safer imaging practices for both patients and healthcare professionals while maintaining high quality imaging.