General Principles of Radiation Protection in Fields of Diagnostic Medical Exposure

UPDATE 3

04th February 2022

The Commission divides exposures into three categories: occupational exposures, public exposures, and Medical exposure of patients.

- 1. Occupational exposure: Occupational exposure refers to all radiation that employees are exposed to as a result of their employment. Radiation exposures incurred at work as a result of conditions that may fairly be regarded as being the responsibility of the operational management are limited by the ICRP. The employer bears the primary duty for worker safety.
- 2. Public exposure: Except for occupational exposures and patient medical exposures, public exposure refers to all public exposures. It can be caused by a variety of radiation sources. Although natural sources account for the majority of public exposure, this does not justify a reduction in the attention devoted to lesser, but more easily manageable, exposures from manmade sources. Pregnant employees' embryos and foetuses are evaluated and controlled as public exposures.
- 3. Medical exposure of patients: In diagnostic, interventional, and therapeutic treatments, patients are exposed to radiation. Several aspects of radiological practices in medicine necessitate a different strategy than radiation protection in other intentional exposure circumstances. The exposure is done on purpose and for the patient's benefit. As a result, applying these Recommendations to medical applications of radiation necessitates independent advice.