Contribution ID: **37** Type: **Poster**

Assessment of Occupational Radiation Dose Exposure in One of the Referral Hospitals in Kenya

The objective of this study was to assess the occupational radiation dose data of the radiation workers in the radiotherapy and radiology departments for a period of two years, 2019/2020 and 202/2021. The dose reports were evaluated to identify the dose distribution of each identified sub-group, total number of monitored radiation workers, annual whole body dose (Hp(10)). The radiation workers were divided into the subgroups: Radiologists, Radiation Oncologists, Physicists, Radiographers and Radiation Therapy Technicians. The TLD system used by the hospital comprises of Harshaw 8800 Dosimetry Reader and LiF:Mg,Ti (TLD 100) dosimeters from Thermofisher Scientific. The maximum effective dose recorded was 18.05 mSv and 1.79 mSv in period 2019/2020 and 2020/2021, respectively. This is within the stipulated recommended whole body dose limit by the International Commission for Radiological Protection (ICRP).

Name of Member State/Organization

Kenya

Speakers affiliation

Ministry of Health, Deputy Chief Radiation Protection Officer

Speakers email

ismundia@gmail.com, targikonyo@gmail.com

Authors: MUNDIA, Isaac (Radiation Protection Board); Mr WANJIRU, Taracisio Gikonyo (Kenyatta National Hospital)

Presenters: MUNDIA, Isaac (Radiation Protection Board); Mr WANJIRU, Taracisio Gikonyo (Kenyatta National Hospital)

Session Classification: Session 2. Monitoring and dose assessment of occupational radiation exposures

Track Classification: 3. Monitoring and dose assessment of occupational radiation exposures