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Radiation workers dose analysis in medical practices at Hamad Medical Corporation in Qatar

Huda M Al-Naemi
Hamad Medical Corporation, Qatar

This work started ten years ago at Hamad Medical Corporation (HMC) by monitoring radiation workers at five hospitals under HMC umbrella. More three hospitals has joined HMC in the year 2012, radiation workers number has increased to almost 2000, however only regular monitored staff has been selected for this study. Medical modalities such as radiology, oncology, nuclear medicine, cath-lab, and urology, etc. were covered. Personal Thermoluminescent Dosimeter (TLD) technique has been applied. Statistics for the last six years (2009 to 2014) were obtained and analyzed. The study concluded that the average annual occupational dose was 5.79 mSv, 5.46 mSv, 4.68 mSv, 2.21mSv, 1.77 mSv, 0.61 mSv, 0.56 mSv and 0.37 mSv for Cath-Lab technologist, interventional cardiologist, Cath-Lab nurse, interventional radiologist, radilogest, dentist, urology technologist and surgical nurse respectively. In order to deliver the monitoring results to all radiation workers, new software has been developed in the intranet of HMC to allow all radiation workers to access their own corporation number to be updated by their occupational dose achieving.

Biography

Huda M Al-Naemi has completed her PhD from Ain Shams University, Cairo, Egypt and continued her studies in the field of radiation in medicine. She has published many papers in reputed journals. She also serves as the focal person for Radiation Safety at HMC and for the various Qatar government agencies such as; The Supreme Council of Health, Ministry of Environment and SIDRA. She represents Qatar in a number of international meetings and conferences and works closely with global organizations such as; IAEA, UNEP and WHO and implements some of their projects at the national level.

dhudanaimi@hotmail.com

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