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CONTRIBUTION OF OCCUPATIONAL DOSIMETRY AND WORKERS TOWARDS OCCUPATIONAL SAFETY CULTURE

Nuclear medicine in practice utilize the radiation from the radionuclide to diagnose and treat the human disease. It potentially poses an occupational health risk to the workers, as the personnel monitoring is the most important aspect need to undergo when working in a radiation environment [1]. External exposure of personnel monitoring had been long introduced in Malaysia as enacted in ACT 304 personnel monitoring section paragraph 22(1) and (4). Thus, personnel dose monitoring in medical is legally bound and considered as a must important component in the occupational safety especially to among nuclear medical imaging workers. Generally, the dosimetry of these workers are monitored using various type of personnel dosimeter such as optically stimulated luminescence dosimeters (OSLD), radiophotoluminescence (RPL), thermoluminescence dosimeter (TLD) or conventional film badge.
According to the International Atomic Energy Agency, there is need for the control and monitoring of radionuclide materials and medical [2]. There are many professionals whose mandate includes nuclear security as just one of multiple areas of responsibility, in addition to the obvious contributors such as technical experts in nuclear sciences, plan writers, and analysts focused on the safety of their profession. Furthermore, the self-assessment allows an organization to develop and maintain a occupational safety among nuclear personnel by evaluating their knowledge and awareness involves radioactive sources [3], [4]. Hence, the present study aimed to evaluate the performance of difference dosimeters in estimating whole body exposure and for the second phase we assess the subjects knowledge on nuclear safety.

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