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Evaluation Of Radiographers' Knowledge, Attitude and Practice (KAP) On The Radiation Protection During General Radiographic Procedures

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Introduction: Radiation protection is vital in radiologic practice to safeguard both patients and healthcare workers from the adverse effects of ionizing radiation. This study evaluated the knowledge, attitude, and practice (KAP) of radiation protection among radiographers in eight tertiary hospitals in Johor Bahru, Malaysia. **Methods:** A cross-sectional survey was conducted using a structured, self-administered questionnaire distributed to 78 radiographers. The questionnaire assessed socio-demographic data and respondents' KAP regarding radiation protection. **Results:** Results revealed that 97.4% of participants had high knowledge, 93.6% demonstrated a positive attitude, and 88.5% reported good practices related to radiation protection. However, knowledge gaps were noted in areas such as dose limits and unit measurements, and inconsistent use of protective equipment like lead gloves and goggles was observed. Significant associations were found between knowledge and religion ($p=0.041$), attitude and age ($p=0.046$), gender ($p=0.006$), education level ($p=0.022$), and training ($p=0.012$). Practice was significantly influenced by prior radiation hazard training ($p=0.014$). Correlation analysis showed a weak positive relationship between knowledge and attitude ($r=0.24$, $p=0.031$), as well as between attitude and practice ($r=0.25$, $p=0.029$), indicating that a more positive attitude correlates with better knowledge and safer practices. However, no significant correlation was found between knowledge and practice ($r=0.103$, $p=0.370$). **Conclusions:** In conclusion, while the overall KAP levels were satisfactory, targeted education and structured training are essential to address specific deficiencies. Incorporating radiation protection principles early in radiography curricula is recommended to reinforce safe practices and ensure long-term occupational safety.

Keywords: radiation protection, radiographers, radiation safety training