

هایش ملی ارتقاء سلامت دلین و دندان خانواده و سومین جایش سالیانه پژوهشی دانشگاه علوم پزشگی استان سمنان ۶۹۵ اسنند ماه ۱۳۹۵ دانشگاه علوم پزشگی استان سمنان، دانشگاه و ذیرانیزشگی



Assessment of radiation protection knowledge, attitude and practice of staff in dental radiography

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Abstract

Introduction: Dental radiography is one of the medical imaging modalities. Radiation protection knowledge, practice and attitude in staff play a principle role in radiation protection. This study aimed to assess radiation protection KAP between staff in dental radiology.

Methods: A survey by questionnaire was performed across the three general categories of healthcare center (educational university, public and private) in 9 healthcare markets (Alborz, Golestan, Ghom, Kermanshah, Khorasan Razavi, Kordestan, Mazandaran, Semnan, Tehran) in 2014-15. The multiple choice questionnaire consisted of 61 questions on various aspects of demographic characteristics and knowledge, attitude and practice about radiation protection. The collected data were analyzed by the One-Way ANOVA.

Result: Our findings showed that there was not any significant relation between sex (P = 0.48 > 0.05) and work experience (P = 0.61 > 0.05) of participants and radiation protection KAP. Also a statistically significant difference was found between period of time after graduation and radiation protection KAP (P = 0 < 0.05). In addition, according to analyses, there was a significant difference between size of healthcare center and KAP (P = 0.04 < 0.05), but there was not any significant relation between type of healthcare center and KAP (P = 0.8 > 0.05). There was a significant relation between region and healthcare center and KAP (P = 0 < 0.05).

Conclusion: The result of our study showed the level of radiation protection KAP associated with period of time after graduation of participant, size of the healthcare center and region.

Keywords: Dental radiography, Knowledge, Practice, Attitude, Radiation Protection