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

Tahereh Khani ^{1,3}, Hadi Hasanzadeh ^{2,3}*, Majid Jadidi ³, Majid Mirmohammadkhani ⁴ Ahmad Bitarafan-Rajabi ⁵, Ali Abedelahi ⁶, Alireza Emadi ⁷, Mitra Bokharaeyan ^{1,3}, Fatemeh Shabani ^{1,3}, Hamed Masoumi ^{1,3}, Shima Moshfeg ^{1,3}, Danial Seifi ^{1,3}, Mohamad Sanchooli ^{1,3}, Athar Ehtiati ^{1,3}, Shima Amin¹, Mohammad Hosein vali ¹, Sanaz Vali ⁸

1-Student Research Committee, Semnan University of Medical Sciences, Semnan, Iran

2-Cancer Research Center, Semnan University of Medical Sciences, Semnan, Iran

3- Department of Medical Physics, Semnan University of Medical Sciences, Semnan, Iran

4-Social Determinants of Health Research Center, Semnan University of Medical Sciences, Semnan, Iran

5-Echocardiography Research Center, Rajaie Cardiovascular Medical and Research Center, Tehran, IR Iran

6-Department of Anatomical Sciences, Tabriz University of Medical Sciences, Tabriz, Iran

7-Deputy of research and technology, Semnan University of Medical Sciences, Semnan, Iran

8-Student Research Committee, Tehran University of Medical Sciences, Tehran, Iran

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