

عنوان مقاله:

Prevalence of Shielding in Diagnostic X-ray Centers in the Islamic Republic of Iran: A Systematic Review

محل انتشار:

دومین کنگره سالیانه کشوری دانشجویی طبری و بیست و دومین کنگره سالیانه کمیته تحقیقات دانشجویی دانشگاه علوم پزشکی مازندران (سال: 1398)

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خلاصه مقاله:

Background and Objective: Shielding has been recommended as an effective tool against radiation exposure. Several studies have published on the availability and use of shielding tools in diagnostic X-ray centers across the country and contradictory results been reported. Therefore, the aim of this systematic review was to find out the status of radiation protection in term of availability and use of shielding tools in diagnostic X-ray centers in Iran. Search Method: An extensive literature search was conducted in the PubMed/Medline, Embase, ISI, Cochrane Library, SID, Magiran, IranMedex, Irandoc and Google-Scholar. We also manually searched the reference lists of the relevant studies. Two authors independently assessed the eligibility of all studies and extracted data. Findings: Thirty-seven studies published from 1998 to 2019 were included in this systematic review. In all, 1089 diagnostic X-ray centers, 4439 radiographs and performance of 1472 radiographers were covered in these studies. The availability of lead apron, gonad shield and thyroid collar were ranged from 7 to 95.5%, 26.6 to 94% and 7 to 94%, respectively. Moreover, their usage was ranged from 0 to 85.5%, 0 to 35% and 0 to 38.4%, respectively. In addition, lens shield was discussed in one study with availability of 0%. Conclusion: During 1998 to 2019, the status of shielding had not improved across the country. Therefore adherence to safety guidelines as far as possible is required to protection patients from undue exposure to radiation.

کلمات کلیدی:

Prevalence, Shielding, Diagnostic X-ray, Radiation Exposure, Iran

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