

عنوان مقاله:

SCATTERED RADIATION AND ASSOCIATED SECOND CANCER RISK FROM PELVIC RADIOTHERAPY

محل انتشار:

اولین کنفرانس بین المللی سلامت، بهداشت و آموزش (سال: 1403)

تعداد صفحات اصل مقاله: 7

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خلاصه مقاله:

**Purpose:** The purpose of this study was to evaluate the risk of gonad cancer induction attributable to pelvic radiation therapy in adult patients. By diagnosing simple methods out-of-field dose might be minimized. **Methods:** By characterizing the peripheral dose the TLDs were placed to the testis and ovary in two fractions of radiotherapy. All patients delivered a 45 Gy total dose in 4 field in prone position with 3D-planning. The doses from linear accelerator at 18 MV photon beam, were investigated. **Results:** The mean excess relative risk (ERR) based on the BEIR IIV models of men and women after 5 and 10 years radiotherapy treatment for pelvic radiotherapy 0.825, 0.701, 0.960 and 0.804 respectively. **Conclusion:** Estimating the second cancer risk of untargeted organs is vital importance for survival patients in RT (radiotherapy). By using the single-energy mode linear accelerator and proper shields can be minimized the out-of-field doses.

کلمات کلیدی:

Radiotherapy, cancer risk, TLD, Organ dose, Out-of-field

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