

عنوان مقاله:

Evaluation of cost effectiveness of proton therapy versus photon therapy in the management of patient with Breast Cancer

محل انتشار:

دوازدهمین کنگره بین المللی سرطان پستان (سال: 1394)

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خلاصه مقاله:

Context: Proton therapy is currently used to treat brain, spinal and prostate cancers, as well as Breast cancer. Proponents cite the modality's ability to spare healthy tissue, but critics claim the benefit gained from its use does not validate its cost compared with photon therapy. The objective of this study was to evaluate the cost effectiveness of proton therapy versus photon therapy in the management of patient with Breast Cancer through a literature survey. Evidence Acquisition: Standard search strategies involving the querying of available online databases (MEDLINE®, Pubmed, EMBASE and Cochrane) have been applied. Database searches were conducted in an iterative manner during June–September 2015 to retrieve articles related to our policy. No specific key words were required as inclusion criteria; a relatively small number of studies exist on this topic, so a bottom-up search strategy was required. Results: Three studies modeled the costs and cost-effectiveness of PBT in breast cancer. The ICER lies below the threshold for women at high risk of cardiac disease and so it can be judged cost-effective whereas it is above this threshold for other patients. The cost per QALY gained would, however, be considerably lower if a population with high-risk of developing cardiac disease was treated. Conclusions: It was concluded that proton therapy for breast cancer can be cost-effective if appropriate risk groups are chosen as targets for the therapy. Also the number of patient who radiation therapy considered in their treatment schedule is other important factor which can affect the decision on PBT cost effectiveness.

کلمات کلیدی:

Proton Therapy – Breast Cancer – Cost - Cost effectiveness

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