

ADJUVANT TREATMENT OF VULVAR CANCER WITH IMRT

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BACKGROUND

There are very few studies regarding IMRT (Intensity Modulated Radiation Therapy) and the treatment of vulvar cancer. Therefore, we will present our experience on IMRT treatment in adjuvant vulvar cancer, at our Department.

MATERIAL AND METHODS

This work is based on a retrospective analysis of vulvar cancer treated with surgery and adjuvant IMRT between January 2009 and February 2012.

All patients were treated with IMRT (sliding window), in a Clinac 2100CD (linear accelarator), with photon energy 6MV. For dosimetry, the inversed planning system was used. It was evaluated the Planning Target Volume (PTV) coverage, the dose's homogeneity distribution and the dose tolerance of the organs at risk - rectum (V40), bladder (V40), small bowel (V35) and bone marrow (V20).

The acute toxicity (intestinal, genitourinary and skin) was evaluated according to the Radiation Therapy Organization Group criteria.





Fig. 1 and 2: PTV coverage - 95% isodoses curve



Treatment Response 50% patients alive at the present analysis 30% patients had loco-regional relapse 1 patient had distant metastasis Progression Free Survival median OS: 1.78 year ordian PES: 1.43 years





CONCLUSIONS: IMRT seems to be a promising treatment in vulvar cancer. IMRT planning has a proper PTV coverage with considerable sparing of organs at risk and is well tolerated by patients. We also achieve with IMRT a low loco-regional relapse, as mentioned in literature.

noare Toronto (ON): Cancer Care Ontario (CCO): 2010 Oct 29. Various on (Evidence-based series: on 21-9-7.2. Berlival et al. IMPT for the treatment, of valuer carcinoma: a comparative dosimatric study

90

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Overall Survival

RESULTS



2.12% cases: PTV <95% of the prescribed dose

Bibliography:1, p's

Survey, ASTRO Presentation 2011

