

RADIOSURGERY AND MULTIPLE CO-PLANAR FIELDS IN THE TREATMENT OF RECURRENT NASOPHARYNGEAL CANCER - A CASE REPORT

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Purpose: To report a case of locally recurrent nasopharyngeal cancer (NPC) remaining disease-free 32 months after 7 portals of co-planar external beams re-irradiation and LINAC-based stereotactic radiosurgery.

Materials and Methods: A NPC patient recurred at one year after the first local irradiation. He then was treated with a dose of 50.4 Gy external radiotherapy delivered by 7 portals of co-planar beams and followed by 10 Gy LINAC-based stereotactic radiosurgery. In radiosurgery, the dose was delivered by using of 2 isocenters and prescribed at the 80% isodose curve. The treatment volume was 41.75 cubic centimeter.

Results: After 32 months of follow up, no local recurrence or adverse effect is recognized.

Conclusion: Multiple portals of co-planar external beam radiotherapy and radiosurgery in treating recurrent NPC is successful in local control and less complication than single treatment modality such as operation, chemotherapy, brachytherapy and regular external radiotherapy. Long-term follow up is necessary for further evaluation in late effect on critical organs of this kind of combined treatment modalities. [Therapeut Radiol Oncol 1997; 4: 65-69]

Key words: Recurrent nasopharyngeal cancer, Stereotactic radiosurgery, Radiotherapy

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