

POSTOPERATIVE RADIATION THERAPY FOR PAROTID ADENOMA: TOXICITY AND LOCAL CONTROL OUTCOMES

K. FOTOPOULOU, G. SOULIMIOTI, I MARAVELIS I., K. GKIRLEMIS, S. TZORAKAKIS,. A.THEODORIDOU, E.GIANNAKOPOULOS, E. ATHANASIOU
Department of Radiation Oncology, G.O.N.K.'OI AGIOI ANARGIRI' General Oncological Hospital of Kifissia, Athens,Greece

PURPOSE:

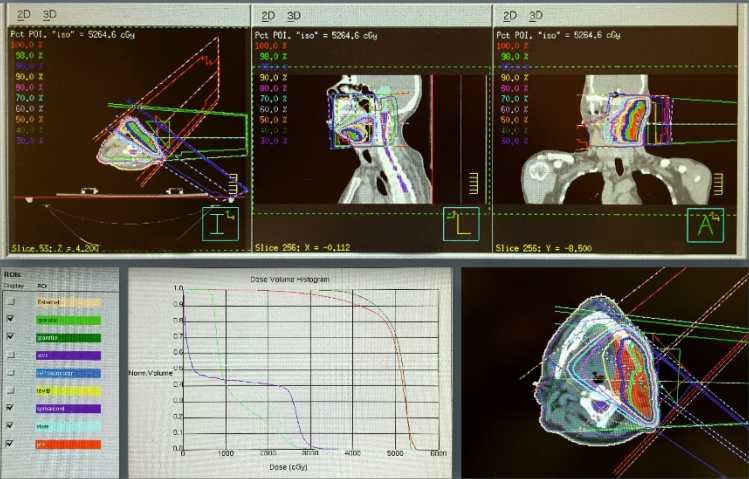
Evaluation of acute and late toxicity in patients with pleomorphic parotid adenoma after surgical resection with positive margins and adjuvant radiation therapy.

PATIENTS AND METHODS:

From September 2009 to December 2014 , 13 patients , 8 females and 5 males with a median age of 66 (46-87 years) were treated with postoperative radiotherapy for pleomorphic parotid adenoma after R1 surgical resection. Total dose was 54.9 Gy with 1.8 Gy per fraction with 3-D conformal radiotherapy. Treatment and follow-up data were retrospectively analyzed for acute and late-treatment toxicities as well as local control .

RESULTS:

Acute toxicity according to RTOG (Radiotherapy Oncology Group) scoring schema was in 7 patients grade I(53%) , in 3 patients grade II (23%) and in 1 patient grade III (7.5%) , while late toxicity experienced only 2 patients(15%). At a median follow-up of 18 months, 11/13 patients (86%) had locoregional control. Two patients only presented local recurrence (15%).



| ACUTE TOXICITY | |
|----------------|---------|
| GRADE I | (7) 53% |
| GRADE II | (3) 23% |
| GRADE III | (1)7.5% |

CONCLUSION:

The addition of adjuvant radiotherapy after R1 surgical resection for patients with pleomorphic parotid adenoma presents an acceptable grade of toxicity and a very good local control rate.