



## **Cutaneous reaction prevention with the use of “Neoviderm skin emulsion” in head and neck external beam radiotherapy (EBRT) and perioperative-brachytherapy (BRT) for breast cancer**

A.Cecconi , A.Guido , S.Cammelli F.Bunkheila , M.Micucci , A.Pepe E.Barbieri and L.Busutti  
Department of Radiotherapy, S Orsola-Malpighi Hospital ( Bologna University)

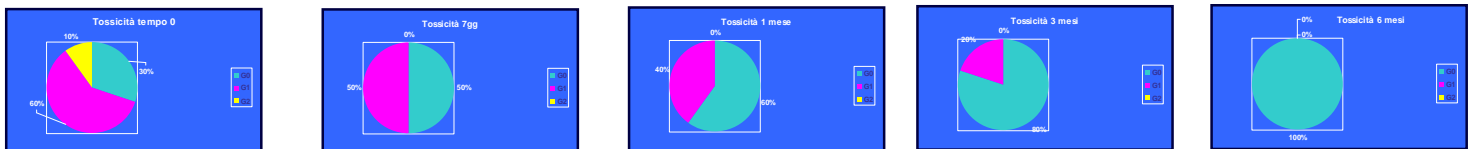
### Purpose

To control the appearance of cutaneous reaction (grade of intensity and incidence) during and after EBRT for head and neck cancer and brachytherapy with MammoSite for breast cancer using an innovative skin emulsion-Neoviderm- (by Istituto Ganassini).

The object is the protective and moisturizing action ,with alginate- betaglucano acid and hyaluronic acid, this emulsion soothes the skin favoring the physiological normalizing process

### Materials and Methods

Study design :in our institute, since February, we have been evaluate , with a new clinical trial of phase II, ten patients who have been treated with brachytherapy ( MammoSite )for breast cancer and twenty patients underwent EBRT with or without chemotherapy for head and neck cancer. All patients underwent this local treatment with Neoviderm skin emulsion twice a day during their radiation treatment and once a day for six months afterwards. The clinical analysis is done with objective analysis (Grading RTOG-SOMA LENT) and the use of photograph archiving. During this trial we evaluated for every patient the superficial cutaneous damage, the skin elasticity, the superficial changes: hyperpigmentation, epilation, skin dryness, telangiectasia.



### Results

All pts treated with Mammosite-BRT are evaluable at day 0,day 7,1-3 months after treatment and 4/10 pts are evaluable at 6 months.Our results in term of skin toxicity are: at time 0 3 pts are G0,6 pts Gr.1 and 1 pt developed precocious skin toxicity G2.; after 7 days 5 pts Gr.0 and 5 Gr.1, after 1 month 6 pts Gr.0 and 4 Gr.1, after 3 months 8 pts Gr.0 and 4 Gr.1, after 6 months 4/4 pts G0.In all pts we have been evaluate a low level of atrophy and hyperpigmentation after treatment and we didn't used the corticosteroids.Good is the level of skin elasticity and skin dryness.Six pts treated with IMRT for head and neck cancer are evaluable: during the period of radiotherapy treatment, median dose 66 Gy ,we observed Gr.1 skin toxicity in only 2 pts (one of these treated with IMRT + anti-EGFR monoclonal antibody-Cetuximab-)and G0 in all others pts.All pts didn't used topic corticosteroid-therapy.

### Conclusion

The use of Neoviderm skin emulsion improve the skin elasticity ,reduce the dryness and the risk of cutaneous erythema and reduce the use of topic corticosteroid -therapy