

BENEFITS OF HYPOFRACTIONATION IN POST OPERATIVE BREAST CANCER PATIENTS

ABSTRACT

Aim:

To assess the loco regional tumour control, the toxicities, quality of life and compliance of post operative breast cancer patients during and after radiotherapy.

Methods:

This is a two arm prospective study done in Department of Radiotherapy, BIRO, Madras Medical College. One arm is conventional fractionation and the other arm is a hypofractionation radiotherapy regime. A total of 60 patients were recruited, with 30 in each arm. Primary End point was loco regional tumour control and secondary end point based on toxicities, Quality of life and Compliance.

Results:

Of the conventional fractionation, majority had acute skin reactions, a major portion of them had compliance issue and quality of life issues. In the Hypofractionation arm, almost half of them had acute skin reactions whereas only one third of them had compliance and quality of life issues. In terms of locoregional control, results were almost similar in both the arms.

Conclusion:

Hypofractionation and Conventional fractionation had issues with each end point. This analysis presents a scenario where all the end points whether primary or secondary becomes to be important in female cancer patients especially the breast cancer.

Keywords:

Breast Cancer, Hypofractionation, Skin reactions, Compliance, Locoregional control, Female cancer.