

## Comparison of ER, PR Reactivity Pattern with Histologic Grade, Tumor Size and Lymph Node Status in Breast Cancer

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### Abstract

**Background & Aims:** There is positive correlation of ER and PR with degree of tumor differentiation and survival and response to hormone therapy are most favourable among women who are receptor positive. **Materials and Method:** The present study was carried out at our institute P.D.U. Medical college, Rajkot. A Total of 130 cases of breast carcinoma were taken into consideration which included of modified radical mastectomies and tru cut biopsies. Data including age, tumor size, and histological grade and lymph node status retrieved from pathology department. **Results:** Maximum number 42 of cases were seen in 41-50 years age group. 128 cases of breast carcinomas were found affecting females and 02 were found affecting males. Out of 130 cases 66 cases have ER, PR receptor positive. Out of 130 cases 90 cases were stage 2 and out of them 50 were ER, PR positive, 83 cases were grade 2 and of them 46 were ER, PR positive, 75 cases were lymph node stage N0 and out of them 37 were ER, PR positive. **Conclusion:** There is significant decrease in mortality and tumor recurrences with hormone therapy. There is positive correlation of ER, PR status with histological grade of tumor and lymph node metastasis. As the positivity was seen to decrease with advancing histological grade. It was also observed that the positivity decrease with increasing metastasis and the lymph node involvement. But there is no statistically significant correlation found between ER PR positivity and Histological Grade, Tumor Size & Lymph Node Status in this study.

**Keywords:** ER, PR, Breast Cancer.