NEO ADJUVANT CHEMORADIATION IN LOCALLY ADVANCED BREAST CANCER - LONG TERM SURVIVAL, TUMOUR AND NODAL RESPONSE

Sridevi Veluswami¹, Shanta Viswanathan²

¹Surgical Oncology, Cancer Institute(WIA), India, ²Breast and Gynec Oncology

INTRODUCTION

Breast cancer is the most common cancer among urban Indian. Nearly 50% of the patients present to the tertiary centers with locally advanced disease. Primary surgery is fraught with a high chance of recurrence and failure. The use of Neoadjuvant chemo radiotherapy could help in downstaging the tumour and increasing the disease free survival.

MATERIALS AND METHODS

Between 1990 and 1999, 1117 consecutive cases of locally advanced breast cancer treated at Cancer Institute (WIA), Chennai, India and followed through for a minimum period of 5years were included in the study, DFS was the main outcome and nodal and tumour downstaging were the intermediate outcome measures studied.

Results: The DFS at 5, 10 and 15 years for all the patients (n=1117) was 64.5, 52.6, 41.4%, respectively. The Disease free survival rate at 5, 10 and 15 years for clinically node negative (CN-) and clinically node positive (CN+) was 71.8%, 60.5% and 64.2%, 52.2% and 40.3% respectively

(p value less than 0.001).

Primary tumour sterility was achieved in 500 of 1108 (45.1%). However the sterility rate was dependant on 'T' stage with T2 having a sterility rate of 55.7%, T3 having 44.7% and T4 achieving only 35.6%.

The nodal downstaging rate was 60.9% for those treated with CMF and

47.9% for those treated with anthra-cyclines.

The DFS rate at 5, 10 and 15 years for pathologically negative (PN -) patient was 74.4%, 64.0% and 58.6% and for the pathologically node positive group (PN +) was 50.2%, 35.6% and 13.6% respectively.

The DFS for the CN- PN- and CN+ PN- patients at 5, 10, 15 years was 69.7%, 59.4% and 74.9%, 64.5% and 58.8% respectively (p=0.43).

The outlook was the worst for the pretreatment clinically node positive patients who continue to be node positive postoperatively (CN+ PN+) ie, patients with no response to chemo radiotherapy. In this group of 442 patients the DFS rate at 5, 10 and 15 years was a dismal 49.1%, 34.4% and 12.9% respectively. Neoadjuvant chemo radiotherapy was tolerated with minimal toxicity in our series.

CONCLUSION:

One data clearly shows the benefit of concurrent Neoadjuvant chemo radiotherapy in locally advanced non-inflammatory breast cancer. It would be essential to study the molecular biology of these tumours, so that the treatment can be better tailored to the patient.