Study of clinical Profile and Management of LABC- our experience

ABSTRACT

INTRODUCTION AND OBJECTIVE- Worldwide breast carcinoma is among the most common carcinoma in females. It is commonly seen site specific carcinoma in females. Due to lack of education patient of breast carcinoma presents in later stages of disease to healthcare facilities specially in developing nations. Patients of Locally advanced carcinoma breast (LABC) are commonly seen in developing nations and its treatment multidisciplinary approach. This study is our experience of clinical profile and Management of LABC in rural setup.

METHODOLOGY- This is retrospective as well prospective study done in the medical college, and data was taken from 72 cases that were operated at institute from July 2018 to June 2021 and diagnosed to have LABC. Patients who had histological evidence of malignancy were underwent surgery and other treatment modalities like neoadjuvant chemotherapy, adjuvant chemoradiation and hormonal therapy.

RESULTS- Seventy two patients diagnosed with LABC over period of 3 years included in study. Mean age was 51 years. Size of tumour was more than 5cm in 60 (83.3%) patients. Involvement of axilla was present in 62 (86.1%) patients. All patients was diagnosed with histopathology after core needle biopsy. Neoadjuvant chemotherapy were given to 62 (86.1%) patients. Most of patients (65) were undergone MRM as surgery while remainder (7) were undergone breast conservation therapy. Very few patients had postoperative complications, but with limited follow up till this study 5 (6.9%) patients had recurrence of their study.

CONCLUSION- In developing nations high percentage of Locally advanced breast carcinoma at presentation result in poor prognosis, high rate of metastasis and mortality. Awareness and education about breast health and multimodality treatment of LABC will have long term effect to decrease the morbidity and mortality and improve outcomes.

Keywords- Locally advanced carcinoma breast, LABC, Multimodality treatment, developing nations

INTRODUCTION

Worldwide Breast Carcinoma is among the most common carcinoma in females. It is commonly seen site specific carcinoma in females. In women aged 21-60yrs, it is one of prime cause of mortality. It is responsible for 25% of all new carcinoma patients among women and is account for 16% of carcinoma related mortality among females. [1 ]

It is uncommon before 30 years of age. But after that its incidence rapidly rise according to age. In low income nations it account for 2-4% of death.[2] Incidence of breast carcinoma in India is rapidly rising to be placed at number one. Now cervical cancer is second most common cancer. Many studies shows that, 1 in 23 women may have carcinoma breast in their lifetime. This rise is mainly seen in high affluent society of India. [3]
Carcinoma breast management requires a multimodality approach involving oncosurgeon, pathologists, radiotherapist and oncologist as well as other specialised paramedical staff [4]. Due to lack of education patient of breast carcinoma presents in later stages of disease to healthcare facilities specially in developing nations. Treatment of LABC mainly requires multimodality approach.

In this study we mainly focus on clinical profile, diagnostic and therapeutic modalities for locally advanced carcinoma breast. Various therapeutic modalities have been discussed like surgery, neoadjuvant and adjuvant chemotherapy, radiotherapy and hormonal therapy.

AIM AND OBJECTIVE
To study clinical profile and Management of Locally Advanced Carcinoma Breast in rural setup

MATERIAL AND METHOD
This is retrospective as well prospective study done in the medical college, and data was taken from seventy two cases that were operated at institute from July 2018 to June 2021 and diagnosed to have LABC, who fulfilled all criteria and ready for further treatment. Patients of male breast carcinoma, stage I, II, IV patients, recurrent breast lump in previously operated case of carcinoma breast are excluded from study. A complete clinical profile of all patients were collected at the time of admission to hospital. Every patient of LABC included in study had histological evidence of malignancy and were underwent surgery in the form of MRM or breast conservative surgery in few patients and other treatment modalities like neoadjuvant chemotherapy, adjuvant chemoradiation and hormonal therapy.

RESULTS
Total seventy two patients diagnosed with Locally advanced breast carcinoma over period of 3 years included in study. Mean age was 51 yrs (range 36-78 years). Size of tumour was more than 5cm in 60 (83.3%) patients. Skin involvement was present in 38 (52.8%) patients. Involvement of axillary lymph node was present in 62 (86.1%) patients. Chest wall was involved in 15 (20.9%) patients. All patients was diagnosed with histopathology after core needle biopsy. All patients subject to hormonal receptor status preoperatively and 43 (59.8%) were ER positive and 37 (48.6%) were PR positive. Neoadjuvant chemotherapy were given to 62 (86.1%) patients. Most of patients (65) were undergone MRM as surgery while remainder (7) were undergone breast conservation therapy. All patients were advised with postoperative chemoradiation, but some refused, so 70 (97.2%) were undergone postoperative chemotherapy while 65 (90.3%) were undergone postoperative radiotherapy. Very few patients had postoperative complications, but with limited follow up till this study 5 (6.9%) patients had recurrence of their study.

Table 1: Characteristics

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<th>n= 72</th>
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<td>Age in years (Mean)</td>
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Patient’s delay to report to healthcare facilities is a most important reason that is responsible for delayed diagnosis of carcinoma breast. And such patients generally presents with advanced stages of disease. It is found that about 22–32% of patients with clinical symptoms of breast carcinoma consult their physicians with almost three month delay [5]. It has also been found that distant metastasis can be seen in patients of in situ carcinoma because of micrometastasis [6]. Decrease in death rate in carcinoma breast in western world mainly because of two factors, early diagnosis and multimodality treatment [7]. Delayed presentation of patient and advanced stage of disease is commonly seen in Low middle class countries with compared with Upper middle class countries [8]. And because of this there is increased morbidity and mortality in patients of low middle class
countries. Along with this there is significant loss of productive capacity of society [8,9]. Only 16% of patients in western world presents with stage III and IV breast carcinoma at presentation, in contrast developing nations has more than half of total patients presents with stage III or IV disease [8,10]. Our study is mainly focusing on study of locally advanced carcinoma breast and limitation in multimodality treatment in rural setup. We recommended neoajuvant chemotherapy and adjuvant chemoradiation to all patients of our study but due to poor educational and economical background some patients were unable to receive this treatment. Neoadjuvant and adjuvant chemotherapy which is recommended by national resources have also been published by the Global Breast Health Initiative [11]. A well prepared guidelines for carcinoma breast detection and management which are evidence based have been well developed and disseminated in several developed nations [12]. A number of studies on breast carcinoma were reported [13-17]. Yeola et. al. reported on incidence and trends of chemotoxicity in carcinoma breast patients[18]. Related studies by Lamture et. al.[19], Mudey et. al. [20], Tanna et. al. [21] and Khatib et. al. [23-24] were reviewed. Breast imaging with ultrasonography or diagnostic mammography, followed by core needle biopsy forms a diagnostic basis for carcinoma breast. Multimodality treatment in the form of Neoadjuvant chemotherapy followed by Surgery with axillary lymph node dissection followed by adjuvant chemoradiation is the mainstay of treatment of LABC which need to follow at every level of breast health [24].

CONCLUSION

In developing nations high proportion of Locally advanced carcinoma breast at presentation results in high rate of metastasis, increased morbidity and mortality. Awareness and education about breast health and multimodality treatment of LABC will have long term effect to decrease morbidity and mortality and improve outcomes.

REFERENCES:


