CASE REPORT

PRIMARY BREAST TUBERCULOSIS; MIMICKING DIAGNOSIS OF BREAST LUMP
Shabana Sultan, Shabeeh Nasar, Anant Rokhande

1. Assistant Professor. Department of Obstetrics & Gynaecology, Gandhi Medical College, Bhopal
2. Associate Professor. Department of Surgery, People’s Medical College, Bhopal.
3. Associate Professor. Department of Surgery, People’s Medical College, Bhopal.

CORRESPONDING AUTHOR:
Dr. Shabana Sultan
House no 1/115, OPD block,
Doctors campus, Sultania lady hospital,
Bhopal, 462001, M. P.
E-mail: shaby_2k2@yahoo.com
Ph: 0091 9893192593.

ABSTRACT: Primary breast tuberculosis is a very rarely thought entity with most common clinical presentation as a breast lump. The significance of primary breast tuberculosis is due to its occurrence and under diagnosis as fibro adenoma, fibroadenosis, breast carcinoma and pyogenic breast abscess. So, breast tuberculosis can be a strongest differential diagnosis for patient presenting with lump. The disease is eminently curable with surgery and anti-tubercular chemotherapeutic agents, provided diagnosed in time.

KEY WORDS: Breast, tuberculosis, clinical presentation, diagnosis, management

INTRODUCTION: Primary tuberculosis (TB) of the breast is very rare even in developing countries where pulmonary and other forms of extra pulmonary manifestations of TB are endemic [1]. The incidence of isolated TB of the breast remains very low, ranging from 0.10% to 0.52%. The disease usually affects women aged from 20 to 50 years [2]. This article reports an otherwise healthy woman with primary TB of the breast, who presented with a breast lump for one year and histopathology reports were suggestive of breast TB.

CASE REPORT: A 30 year old married women, Para 2, presented with complaint of lump in right breast for one year. There was no past and family history of tuberculosis. On examination, lump was 6×5 cm, mobile, mild tender, firm, ill-defined at lower inner quadrant of right breast. There were multiple, matted, non tender lymph nodes in right axilla. On investigation, she had normal white blood cell count with lymphocyte predominance and normal ESR. Mantoux test was positive. Chest radiograph was normal. FNAC was suggestive of granulomatous inflammatory lesion. Gram staining was negative. Excision biopsy was done; operative findings were, a lump, 6.5×5 cm, ill-defined, mobile, and firm to hard at lower inner quadrant of right breast. Histopathology report showed few epithelioid granulomas with Langerhans giant cells and collar of lymphocytes, suggestive of granulomatous lesion suggesting tuberculosis of right breast (figure 1). Patient was started on anti-tubercular therapy of isoniazid 300mg, rifampicin 600mg, pyrazinamide 1500mg & pyridoxine 10mg for 6 months post-operatively. Patient is well after anti-tubercular treatment. No recurrence was noticed after treatment in two year follow-up.

DISCUSSION: Breast tuberculosis is a rare form of tuberculosis [3]. Primary and secondary forms of the disease have been described. Primary disease refers to there being only one site of
involvement in women who are not immunocompromised \[2\]. Breast tuberculosis commonly affects women in their reproductive age group \[4\]. The highest incidence of pulmonary tuberculosis reported between 21-30 age groups of females \[5\]. Breast tuberculosis most commonly presents as a lump \[6\]. Extra pulmonary tuberculosis occurring in the breast is extremely rare.

Breast tuberculosis is uncommon even in countries where the incidence of pulmonary and extra pulmonary tuberculosis is high. It is often mistaken for fibroadenosis, carcinoma and pyogenic breast abscess \[3\]. Diagnosis is based on the identification of typical histological features \[7\]. Demonstration of caseating granulomas from the breast tissue and involved lymph nodes is usually sufficient for the diagnosis. Radiological imaging modalities like mammography or ultrasonography are unreliable in distinguishing it from carcinoma because of the variable pattern of presentation \[8\]. The disease is eminently curable with surgery and antitubercular chemotherapeutic drugs. Recurrence usually not occur after pooper excision and anti tubercular treatment.

CONCLUSION: Extra pulmonary tuberculosis occurring in the breast is extremely rare. Breast tuberculosis is uncommon even in countries where the incidence of pulmonary and extra pulmonary tuberculosis is high. In the absence of well-defined clinical features, the true nature of the disease remains obscure and it is often mistaken for carcinoma or benign breast disease. Caseating epithelioid cell granulomas in the tissue samples are diagnostic of tuberculosis. The disease is curable with surgery and anti-tubercular chemotherapeutic drugs.

REFERENCES:
Figure-1, Breast Histopathology report shows few epithelioid granulomas with Langerhans giant cells and collar of lymphocytes