Primary tuberculosis of male breast: A rare case presentation

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Abstract
The primary tuberculosis of breast is a rare disorder which can be mistaken for pyogenic or neoplasm’s of the breast. We are reporting a case of 60 year old male who presented with a swelling in right breast. Surgeons made a diagnosis of Breast abscess, Neoplasm and Radiologist gave a diagnosis of breast abscess. FNAC of the swelling revealed granulomatous mastitis with superadded acute inflammation.

Keywords: Breast, FNAC, Abscess, Swelling, Tuberculous mastitis.

Introduction
Tuberculosis is a chronic granulomatous disease, most commonly involve Lungs, but it can involve any organ in the body. Tuberculosis of the breast is a rare entity, which is often mistaken for other lesions of the breast.1,2 The tuberculosis of the breast was first explained by Sir Astley Cooper in the year 1829 and recorded the occurrence of “Scrofulous swellings in the bosom” of young women.3 Breast tuberculosis can be part of haematogenous spread, but isolated breast tuberculosis can occur which is a rare incidence as previously described in many literatures. The Breast tuberculosis is very rare in males which can be confused with Gynecomastia and breast carcinoma.10 So proper evaluation is required to prevent delay in start of treatment.

Case Report
A 60 year old male patient presented to surgery OPD, district hospital Dharwad with 1 to 2 months history of swelling in the right breast and fever more in the night. The patient didn’t had any positive TB contacts at the time of presentation. No history of diabetes mellitus/hypertension/Tuberculosis/bronchial asthma or any other disease was present. Surgeons made a diagnosis of Breast abscess, Neoplasm and Radiologist gave a diagnosis of Breast abscess.

On examination, swelling was in sub areolar and inner side of the right breast. Swelling measured 4x4 cms, skin over the swelling was erythematous and on palpation slightly tender. No axillary nodes were palpable. Chest X-ray was normal. Random blood sugar was 102mg/dl, HIV test was negative. ESR was high.

FNAC was done with 5ml syringe with 23G needle, Aspiration was purulent, 3 slides were made. Haematoxylin & Eosin stain, Leishman stain and Auramine-Rhodamine stain were used; Microscopy showed epithelioid cell granulomas, Langhan’s type giant cells with necrotic material, Auramine-Rhodamine stain for tubercle bacilli was positive. Diagnosis of primary tuberculous mastitis was made. Medical officer of primary health center Belavatagi, Haliyal taluk, Karwar district was informed to start anti tuberculous treatment under RNTCP Programme. He is responding to treatment and currently followed up.

Fig. 1: Swelling in the right breast

Fig. 2: Epithelioid cell granuloma
Most common site of lump in breast is seen in central or upper outer quadrant. In our case swelling was in sub areola and inner side of the right breast.

The differential diagnosis of breast TB includes Granulomatous inflammatory diseases, such as idiopathic Granulomatous mastitis, Sarcoïdosis and fat necrosis.

FNAC is an important tool for the diagnosis of breast tuberculosis with identification of epithelioid cell granulomas and tubercle bacilli under microscopy or mycobacterial culture. In present case FNAC was done. Epithelioid cell granulomas, Langhan’s type of giant cell were seen under microscope and tubercle bacilli was identified with Auramine rhodamine stain. Imaging modalities has limited value but FNAC is a safe, easy, opd procedure for the diagnosis.

Conclusion
Tuberculosis of the male breast is very rare, because of rarity can be misdiagnosed as suppurative lesion or Neoplasm of breast, hence all the cases of breast abscess or lump in the breast should be investigated thoroughly as the disease can be treated conservatively.

Conflict of Interest: None.

References

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