

International Surgical Week

The World's Congress of Surgery



ATYPICAL PRESENTATION OF TUBERCULOSIS IN ENDOCRINE SURGERY

Dr. Athulya Laila Sreekumar, Dr. Zahir Hussain, Dr. M.S Senthilkumar, Dr. M.P Kumaran, Dr. Aadarsh Raghavan, Dr. Shradha Srinivas DEPARTMENT OF ENDOCRINE SURGERY, MADRAS MEDICAL COLLEGE, CHENNAI, INDIA.

DISCUSSION & CONCLUSION INTRODUCTION Tuberculosis • TB is ubiquitous. is uncommon an TB may present in thyroid in the form of malignancy, abscess, or infection affecting the thyroid, thyroiditis. glands, parathyroid, adrenal • In the adrenal gland it may present as Adrenal insufficiency, benign pituitary glands as well as breasts. adenoma or mimick adrenal malignancy. In breast TB may mimick conditions ranging from fibroadenoma to As they have atypical presentations carcinoma including granulomatous mastitis. it can pose a challenge to the Hence a high degree of suspicion is required in diagnosing and treating treating surgeons in proper atypical presentations of a thyroid, adrenal or breast lumps especially in

CASE VIGNETTES

CASE VIGNETTES 1:-

diagnosis and treatment.

History:-

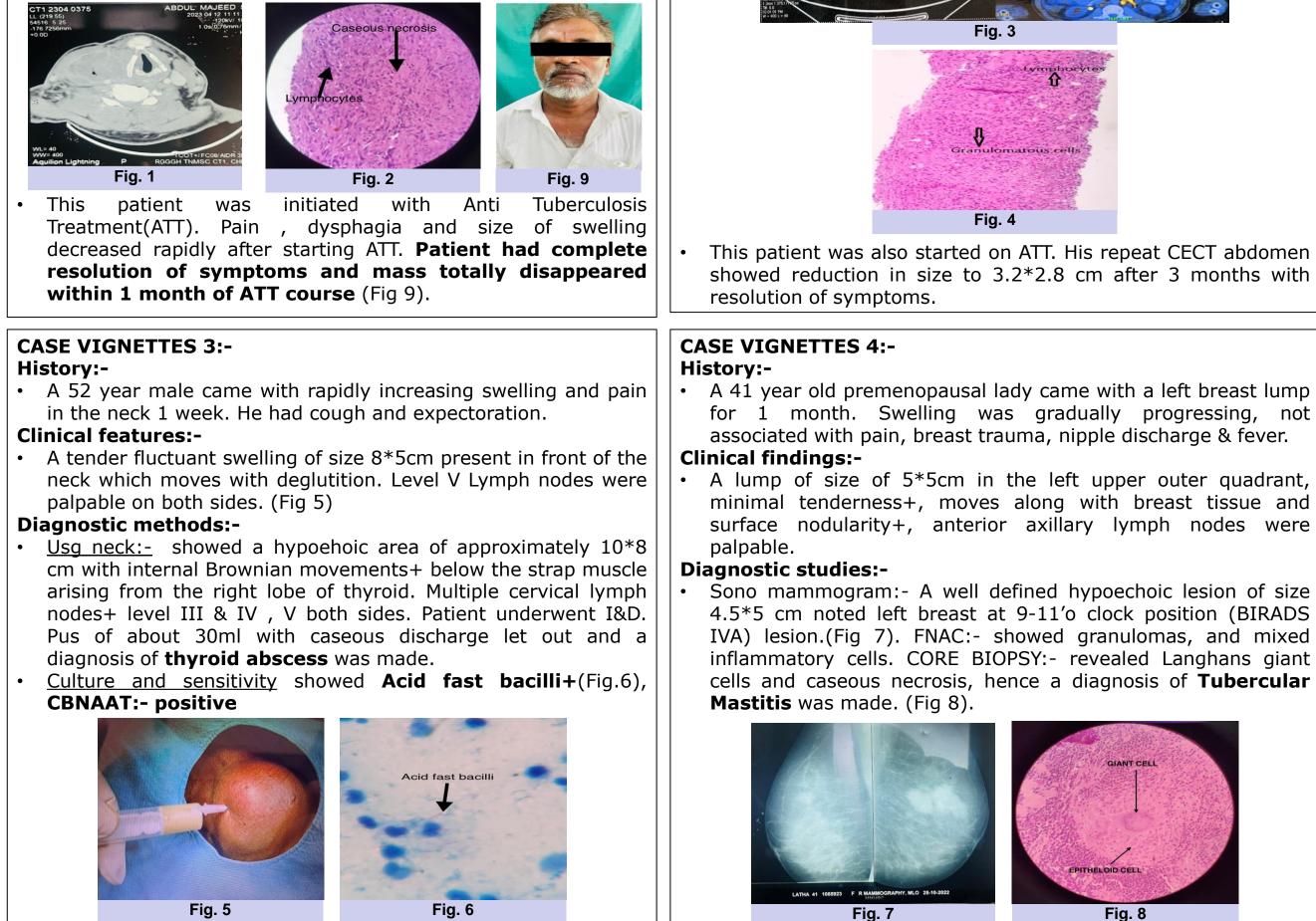
• A 53 year old gentleman came with rapidly increasing neck swelling for the past 15 days with associated dysphagia, voice change, headache and pain on neck movements.

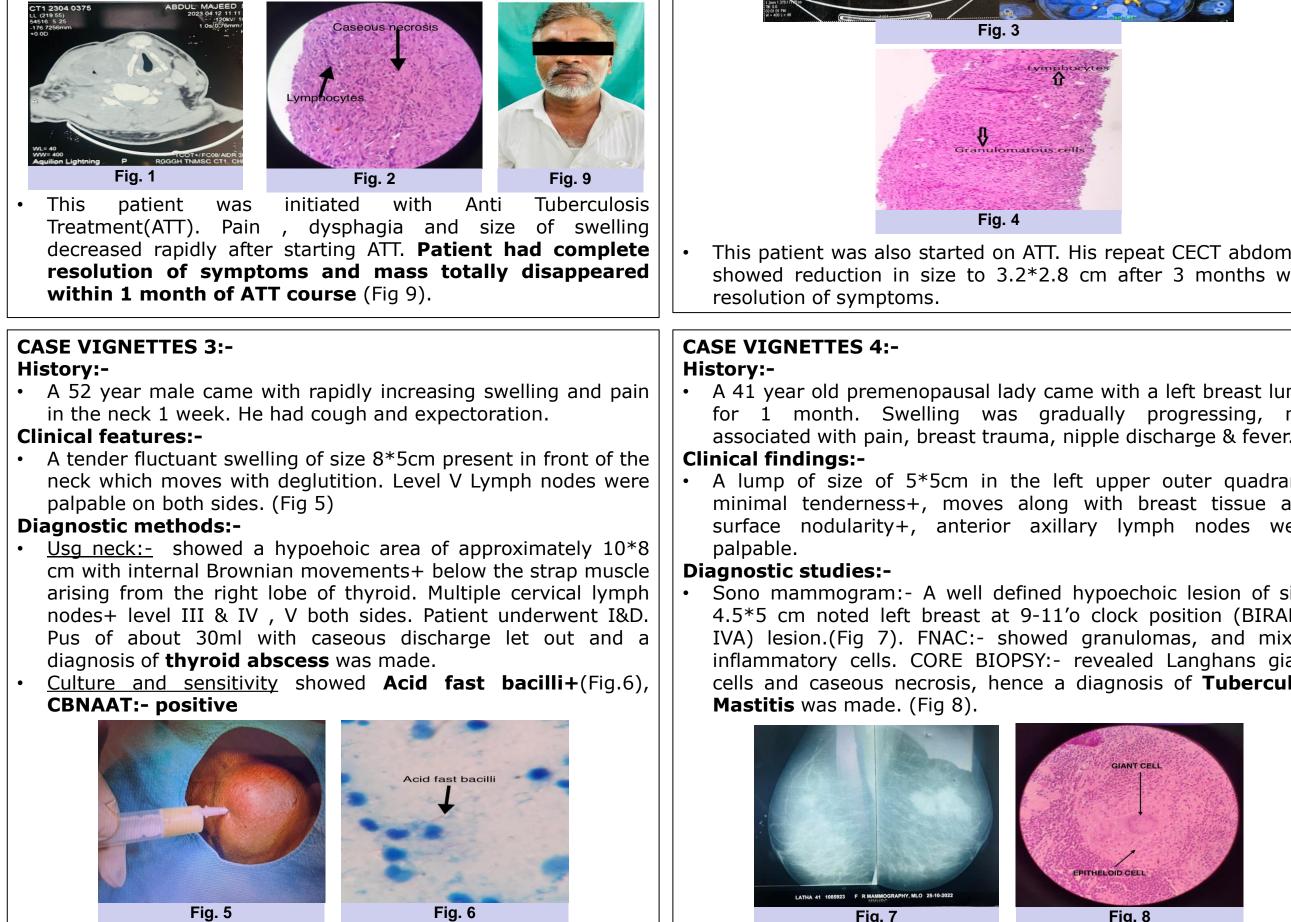
Clinical examination:-

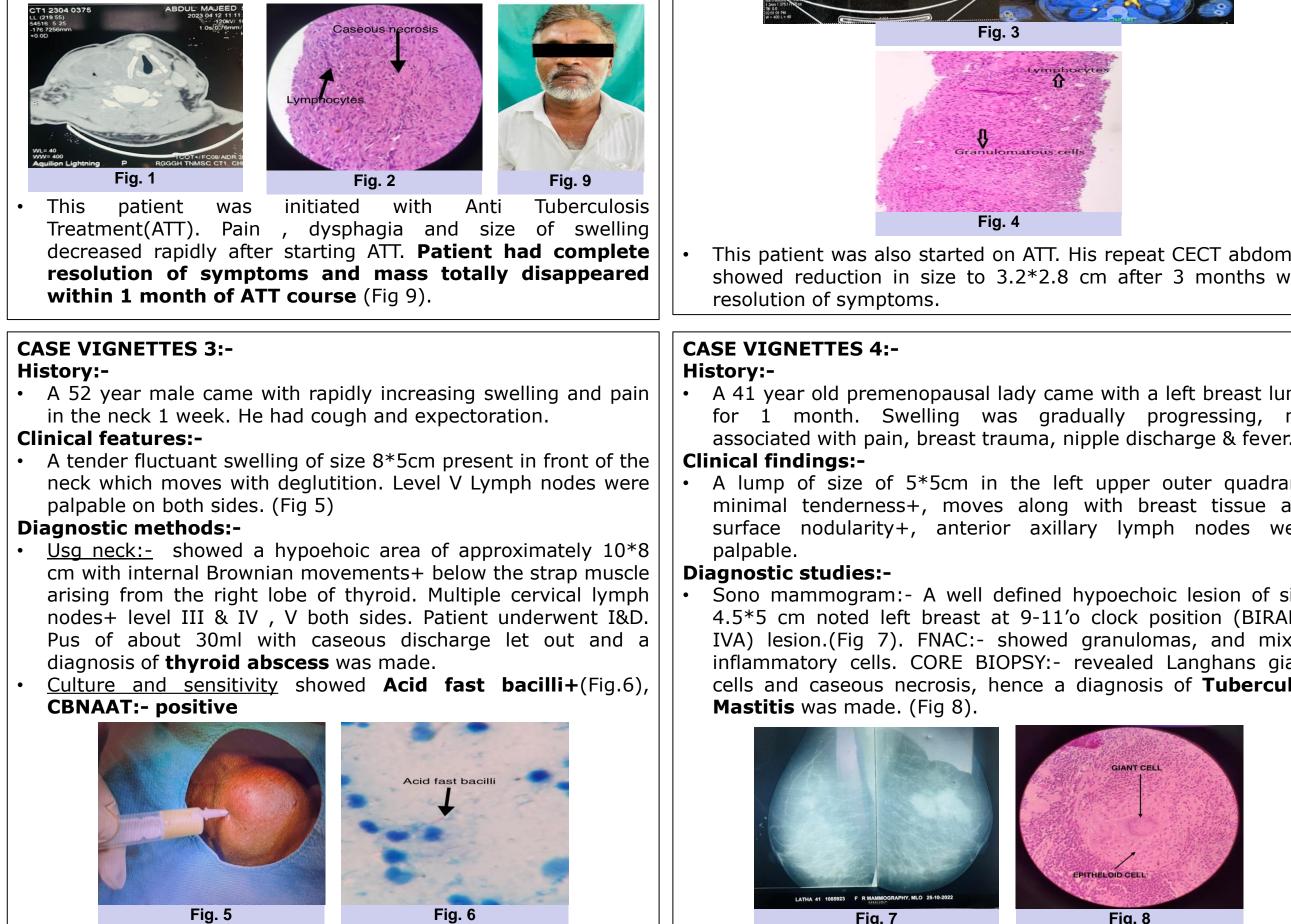
A 15 *12 cm swelling was noted in front of the neck with restricted mobility on deglutition and lower border of the swelling was non palpable. Trachea was pushed to left side. Berry's sign was positive on right side with multiple level II, III, IV, V cervical lymphadenopathy. VDL showed right vocal cord palsy and a working diagnosis of **anaplastic carcinoma** was given.

Diagnostic procedures:-

- **CECT neck and thorax:-** (Fig 1) Possibility of malignant growth in the right lobe of thyroid of size of 9.8* 8.2cm with retrosternal extension. Necrotic lymph nodal mass in right level III, IV and V. Right IJV thrombus and right carotid artery encasement with ? secondary lung metastasis.
- **FNAC:-** Granulomatous lesion from both right and isthmus.
- **CORE BIOPSY: -** (Fig 2) Chronic inflammatory pathology with reactive fibroblastic proliferation with many epitheliod and giant cells and a small foci of caseous necrosis. IHC :- TTF-1 Positive, PAX8 -ve, P53 -ve, CBNAAT: - negative







CASE VIGNETTES 2:-

TB endemic regions like Asia, Eastern Europe and Africa.

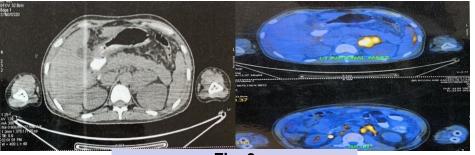
History:-

35 year old male presented with weakness of both lower limb with a working diagnosis of poly radiculopathy. He had left sided abdominal pain with low grade fever for 2 weeks. P/A:mild tenderness+ both iliac fossa, BS+. He underwent CECT abdomen and was found to have a left adrenal incidentaloma.

isw2024.org

Diagnostic studies:-

- **<u>CECT Abdomen</u>:-** A well defined hypodense lesion of size 5.9*5.2cm in Left adrenal gland with relative washout of 48 % washout absolute of 70%. Retroperitoneal and lymphadenopathy + with ascites and peritoneal thickening.
- **PET-CT:-** Left adrenal lesion of size 4.3*4.8*5.9cm (? Primary tumour) with suv max of 9 with retroperitoneal lymphadenopathy. (Fig 3).
- **<u>CT Guided core biopsy</u>** showed granulomatous lesion with possible tuberculous etiology, hence a diagnosis of **TB adrenal** gland was made. (Fig 4).



- He was started on I.V antibiotics and Anti Tuberculosis Treatment. He had complete resolution of the abscess. On follow up scan USG revealed atrophic and fibrotic right lobe.
- This patient too was initiated ATT and a 75% reduction in size of lump after 4 months was noticed.

REFERENCES

- Raman L, Murray J, Banka R. Primary tuberculosis of the thyroid gland: an unexpected cause of thyrotoxicosis. BMJ Case Rep. 2014.
- Ma ES, Yang ZG, Li Y, Guo YK, Deng YP, Zhang XC. Tuberculous Addison's disease: morphological and quantitative evaluation with multidetector-row CT. Eur J Radiol. 2007;62:352-358.
- Liu H, Tang TJ, An ZM, Yu YR. Unilateral adrenal tuberculosis whose computed tomography imaging characteristics mimic a malignant tumor: A case report. World J Clin Cases 2022; 10(17): 5783-5788.
- Kataria S. P., Tanwar P., Singh S., Kumar S. Primary tuberculosis of the thyroid gland: a case report. Asian Pacific Journal of Tropical *Biomedicine.* 2012;**2**(10):839–840.
- Ramaema DP, Buccimazza I, Hift RJ (2015) Prevalence of breast tuberculosis: Retrospective analysis of 65 patients attending a tertiary hospital in Durban, South Africa. S Afr Med J 105(10):866-869.