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Unusual Presentation of Follicular Carcinoma Thyroid- A Rare Case Report

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Abstract: Follicular thyroid carcinoma rarely manifests itself as a distant metastatic lesion. We report a known case of goiter in 76-year-old woman with follicular thyroid carcinoma who initially presented with pain in left shoulder. Fine needle aspiration cytology (FNAC) from area near scapular neck and from thyroid show same picture of follicular cells arranged in microfollicles along with elevate serum thyroglobulin level establish the diagnosis of metastatic follicular thyroid carcinoma. This case of follicular thyroid carcinoma is reported because of its uncommon presentation with osleolytic lesion of scapular neck.

Keywords: Follicular thyroid carcinoma, metastatic lesion, osleolytic lesion.

INTRODUCTION

Follicular thyroid carcinoma (FTC) is the second thyroid malignancy after papillary carcinoma [1]. This usually occur in older age groups, with a peak incidence in the fifth decade [2]. It is three times more common in females than in males. This neoplasm tends to metastasize to organs such as lung and bone, brain, skin and adrenal glands. The lung is the most common metastatic site for thyroid carcinoma followed by bone [3, 4]. The incidence of distant metastasis of follicular thyroid carcinoma has been reported as between 11 and 25% [5-7]. However, Follicular thyroid cancer presenting with metastases as initial presentation is very rare. We report and discuss the unusual presentation of this case.

CASE REPORT

A 76 years old female was a known case of goiter and presented with pain in left shoulder. The patient was clinically euthyroid with normal general physical, systemic, and neurological examination. Routine blood tests and thyroid function tests were normal. MRI showed an expansile lytic left scapular neck mass measuring 4.9 x 3.2 x 3.9 cm with cortical erosion and minor soft tissue component. There was involvement of bony glenoid and displacement of deep musle around shoulder girdle.MRI imaging finding was in favour of malignancy. Patient came for FNAC from scapular neck. FNAC from area near scapular neck obtained was stained with Leishman stain. Smears showed many thyroid follicular cells having monotonous enlarged, hyperchromatic nuclei arranged in microfollicles containing colloid.(FIGURE-2,4). Patient had goiter from many years. But patient was not willing to go for FNAC from neck swelling because she thought that there was no problem with neck goiter.

1,3). But she refused for biopsy. The serum TG level was found to be extremely high (3100 ng/ml), which clearly indicates that the neoplasm was of thyroidal origin.



After convincing she agreed for FNAC of thyroid

swelling. Fine needle aspiration cytology (FNAC) from

thyroid was reported as follicular neoplasm.(Figure-

Fig-1: Show thyroid swelling



Fig-2: Show no gross lesion of left scapula

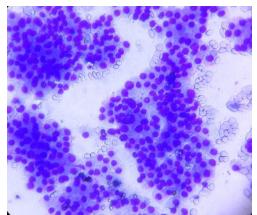


Fig-3: Show syncytial and follicular arrangement of thyroid cells

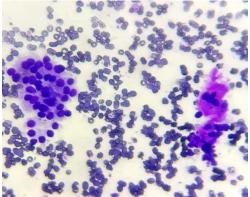


Fig-4: Show metastatic thyroid cells in microfollicular arrangement and colloid

DISCUSSION

However, Follicular thyroid carcinoma (FTC) presenting with metastases as initial presentation is very rare. There have been a few case reports of follicular carcinoma causing unusual bony metastases, such as skull [8], mandible [9], maxilla [10], spine [11], and orbit [12]. Nevertheless, there are very few reports regarding the initial presentation of patients with distant metastasis leading to diagnosis of FTC. Emerick et al [13] reported two patients (3.6%) with distant metastasis at presentation. Shaha et al. [14] reported a higher incidence of distant metastases (11%) in a series of 1,038 patients with FTC in which 4% presented initially with distant metastatic disease. The study of Durante et al. found 44% of bone metastases in 444 metastatic differentiated thyroid carcinoma patients. They are more frequent in Follicular thyroid carcinoma (7-28%) compared with Papillary thyroid carcinoma (1.4–7%). The bones most often involved in metastasis of follicular carcinoma are the long bones, such as the femur and flat bones, particularly the pelvis and sternum [15].

CONCLUSION

We have presented an unusual case of follicular thyroid carcinoma with metastasis in scapular neck which is a rare site for metastasis.

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