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Thyroid Follicular Carcinoma with Mediastinal Cervical Metastasis and Papillary Pattern Presence: A Rare Phenomenon

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Introduction

Follicularthyroid carcinoma isthesecondcommontype of thyroid cancer, and comprisesapproximately 10-20% of thyroid carcinomas [1-2]. It can be classified into two categories: minimally invasive thyroid follicular carcinoma and widely invasive. The first one is a grossly encapsulated solitary tumor with limited capsular invasion and / or vascular invasion, whereas the second one is characterized by generalized in filtration of adjacent thyroid tissue and / or blood vessels [3]. This paper show a case of a 43-year-old patient with follicular thyroid carcinoma with combined papillary pattern with me diastinal cervical metastasis.

Clinical Case

A 43-year-old male patient, admitted to the emergency room because of cough with hemoptysis, myalgias, arthralgia, respiratory distress and pneumonia, 3 months before admission, presented with cervical tumor. At the clinical examination, the thyroid region presents a diffuse increase in the right lobe of the thyroid. The nodule of hard consistency is palpated, with involvement of the upper mediastinum causing extrinsic compression of the trachea. He is transferred to the Intensive Care Unit due to respiratory distress syndrome and type I respiratory failure. Thoracictomography examination shows an extensive neoproliferative mediastinal solid lesion that associates regional lymphadenopathy (Figure 1), which warrants anatomopathological correlation.

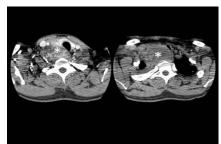


Figure 1: Infiltration of Mediastinum with Mass Effect.

The cervical histopathological study, evidence Follicles of various sizes, in a trabecular pattern, cells present hyperchromatic nuclei and cytoplasm similar to normal follicular cells (Figure 2a,b), in another field it is possible to observe a papillary pattern (Figure 2c). It was diagnosed, follicular thyroid carcinoma with metastases to the mediastinal region. The patient dies 4 days after admission to the intensive care unit due to respiratory complication, associated with superior vena cava syndrome.

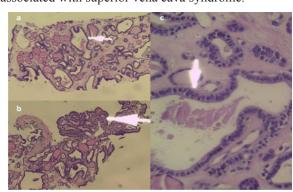


Figure 2a: Follicles of Various Sizes, in a Trabecular Pattern, Figure **2b:** Cells with Hyperchromatic Nuclei and Cytoplasm similar to Normal Follicular Cells, Figure **2c:** Papillary Pattern.

Discussion

The follicular thyroid carcinoma has a greater preponderance for the female sex; however, the male sex has also been associated with an advanced age and a large tumor size, with a poor prognosis [4-5]. The case presented shows a patient of 43 years of males, which is not consistent with the literature, most of the follicular carcinomas present at premature ages are associated with hereditary syndromes, such as Cowden's disease, Werner's syndrome and the Carney complex [6]. We do not count with studies that show four case belongs to one of the presented syndromes. It is usually presented as slow enlargement of the thyroid tissue. Histologically it is distinguished from follicular adenoma only by the

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presence of capsular and vascular invasion [7]. In our anatomopathological study we cannot appreciate the capsular and vascular invasion as we performed a trucut biopsy in the left lateral area to the thyroid gland, obtaining invasive tissue.

Distant metastases are more common in follicular thyroid carcinoma than in Papillary Thyroid Carcinoma (PC) [8]. Distant metastases are common in the lungs and bones [9]. Lymph node metastasis is uncommon. The early stage has a good prognosis (99% survival at 5 yearsStage I and II). In stage IV of the disease as presented, survivalist 47% to 5 years [10]. In the case presented mediastinal metastasis leading to superior vena cava syndrome is also present, in addition to an emergency with myalgia's, arthralgia's, cough with hemoptysis associated with respiratory distress, as a cause of tumor compression. Metastasis to lymph nodes is not evident, which is consistent with the literature [10].

The pillar treatment is almost total or total thyroidectomy, with or without neck dissection, followed by suppression of TSH with levothyroxine. A higher stage generally require radiotherapy with radioactive iodine, occasionally with high doses of up to 200 mCi, to remove remnant local thyroid tissue and distant metastasis [11]. External beam radiation for metastasis is not widely used, since that there are conflicting reports [12]. In the case presented, no tumor-directed treatments were performed because the patient dies because of the superior vena cava syndrome. One of the rare anatomopathological findings is the combination of more than one histopathological pattern. The combination of more than one different pattern of thyroid cancer is only reported three times. In 2003 by Bohorquez, et al. [13], reported a case of a 27-year-old female patient with a combination of a follicular pattern, a medullary pattern and a papillary pattern, clearly separated from each other. Another finding was reported by [14] in 2005 who found occurrence of three types of thyroid cancer in a recurrent goiter both with a well-located location. And a last report was made by [15] in 2007 who found three types of thyroid cancer in a patient with recurrent goiter. Our finding differs from the reported cases, in which both the follicular pattern and the papillary pattern were combined. A finding consistent with the study by Bohorquez, et al. [13] and ours are the premature ages of both patients; However due to lack of evidence we cannot affirm that this is a phenomenon related to a premature age, more studies are needed to confirm the irrelationship.

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