Amyloid Goiter Showing a Systemic Amyloidosis (A Case Report)


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Abstract

Amyloidosis is the finale pathway of a metabolic disorder in the body that can be primary or secondary leading to abnormal extracellular deposition of proteins in one or more tissues. Thyroid damage is very rare.

We report the case of a 61-year-old patient who was followed for bronchiectasis and presented an enlarged goiter with signs of malignancy. The biopsy of the mass led to the diagnosis of Amyloid goiter, which was revealing of the disease. Renal involvement was also subsequently confirmed. The patient was treated with colchicine, and the thyroid gland was preserved in the absence of signs of compression.

Amyloid goiter should be considered in any patient with goiter with a history of chronic inflammatory disease.

Keywords: Amyloid Goiter; Bronchiectasis

List of abbreviations: AA Amyloidosis; Amyloid A Amyloidosis; MRI: Magnetic Resonance Imaging

Introduction

The amyloid goiter, is a rare pathological entity due to the deposition of amyloid proteins in the thyroid gland, and causing an enlargement of the thyroid gland, may be secondary to a primary or secondary amyloidosis [1,2].

In the primary Amyloidosis, the kidneys, heart, nerves and gastrointestinal system are the organs most affected. In the secondary Amyloidosis the spleen, liver, kidneys, adrenal glands are the most affected [3].

Thyroid treatment is surgical when the patient presents signs of compression.

We report the case of a woman whose amyloid goiter was the first manifestation of a secondary amyloidosis.

Presentation of Case

We describe the case of a 61-year-old woman, followed for bronchiectasis since 9 years under treatment (inhaled corticosteroids). The patient had presented a previous cervical swelling since 6 years, this mass has progressively increased in volume, without signs of compression, or dysthyroidism, and without alteration of the general state of health. Examination found a large cervical mass at the expense of the thyroid (Figure 1), fixed in relation to the superficial and deep planes, and without cervical lymphadenopathy, nasofibroscopy showed normal mobility of the vocal cords. The patient benefited from a cervical ultrasound scan which showed the presence of multiple nodules in both lobes, the largest one measuring 28mm long axis and classified EUTIRADS 4, the imaging was completed by a cervical MRI which objectified an enlarged thyroid gland, not plunging, and strongly raised and heterogeneous after gadolinium injection (Figure 2). The biologic evaluation found a normal thyroid function (TSHus=2,85 mUI/l), but renal function was impaired (creatinine=54,30/ MDRD= 5,32 ml/mn).
Amyloidosis is a condition of unknown etiology. There are several types of amyloidosis, including secondary generalized amyloidosis, which consists mainly of AA protein, and in which all organs can be affected, including the peripheral nervous system, the thyroid is rarely affected [4].

It is a infiltration by amyloidosis deposits very frequently observed in systemic amyloidosis, these deposits are asymptomatic and do not cause goiter or dysthyroidism in the majority of cases, and found on a specimen of thyroidectomy or autopsy [5]. Indeed, the quantity of amyloid deposits is rarely sufficient to modify the volume of the gland.

Clinically, the amyloid goiter is often compressive and can therefore simulate a thyroid cancer as it was revealed in our patient [6]. Patients may be in hypothyroidism, hyperthyroidism, or euthyroidism [2,4], our patient was in euthyroidism.

The diagnosis of an amyloid goiter can be made by a simple cytopunction, but it is difficult to make a differential diagnosis with a medullary carcinoma, which is why the diagnosis is mainly histological on the surgical specimen [7].

There is no effective treatment for systemic amyloidosis. Colchicine can prevent the progression of amyloid deposits in AA amyloidosis, but the effectiveness of this treatment is still debated [8].

For the thyroid gland the choice therapy is total thyroidectomy if there are signs of compression [9].

**Conclusion**

The diagnosis of amyloid goiter should be considered in any goiter patient with a history of chronic inflammatory disease.
Consent of Patient

Informed consent was received from the patient.

Conflict of Interest

All authors have no conflict of interest or financial support with this article.

References


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