

True mediastinal ectopic goitre. Case report

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SUMMARY: True mediastinal ectopic goitre. Case report.

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Heterotopic thyroid tissue is described to usually lie at the tongue base, while the 10% at the hyoid bone. We report a case of incidental diagnosis of a true mediastinal goitre with preoperative chest X-ray in a 35-year old woman with a multinodular cervical goitre.

RIASSUNTO: Vero gozzo mediastinico: caso clinico.

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La presenza di tessuto tiroideo eterotopico viene di solito descritta alla base della lingua e nel 10% dei casi nell'osso ioide. Riportiamo un caso di diagnosi accidentale di vero gozzo mediastinico evidenziato come "massa" dalla radiografia preoperatoria del torace in una donna di 35 anni con gozzo cervicale multinodulare.

KEY WORDS: Ectopic thyroid - Incidental diagnosis - Sternotomy.
Tiroide ectopica - Diagnosi accidentale - Sternotomia.

Introduction

Heterotopic thyroid tissue is described to usually lie at the tongue base, while the 10% at the hyoid bone (1). Different localization are also described in cervical regions and in relation with larynx, trachea, oesophagus, mediastinum, diaphragm and the heart.

We report a case of asymptomatic true mediastinal ectopic goitre in a patient with multinodular cervical goitre and previous excision of thyroid nodule.

Case report

A 35-year-old woman is admitted in our department for an asymptomatic multinodular goiter. She underwent thyroid nodule excision four years ago. Hematologic and thyroid function tests were normal. During the preoperative evaluation a chest X-ray showed a shadow in anterior mediastinum on the right (Fig. 1). A chest CT-scan disclosed a non homogeneous 84x51 mm oval mass lying on the ascending aorta (Fig. 2).

Due to the unknown nature of the mediastinal mass, we deci-

ded to refer our patient to the Thoracic Surgery Unit. At sternotomy there was no continuity between the thyroid gland and the mediastinal vascularized from the branches of anonymous artery and thoracic vessels. The mass was excised.

Results

The definitive histology revealed an ectopic goiter without findings of malignancy. The postoperative course was uneventful and the patient was discharged on postoperative day 5th.

Thirteen months later, the patient was readmitted to our unit to perform the total thyroidectomy for multinodular goiter.

Discussion and conclusion

According to the criteria of ectopic thyroid tissue, the true intrathoracic goiter is a rare condition. Indeed this definition is often used for both cervical goiter developed into mediastinum and for thyroid tissue not linked to the thyroid. The first condition, known as secondary intrathoracic goiter, is the result of progressive downgrowing of a cervical goiter in to the chest behind the sternum (1-3). On the other hand the so-called primary intrathoracic goiter represents the true ectopic thyroid

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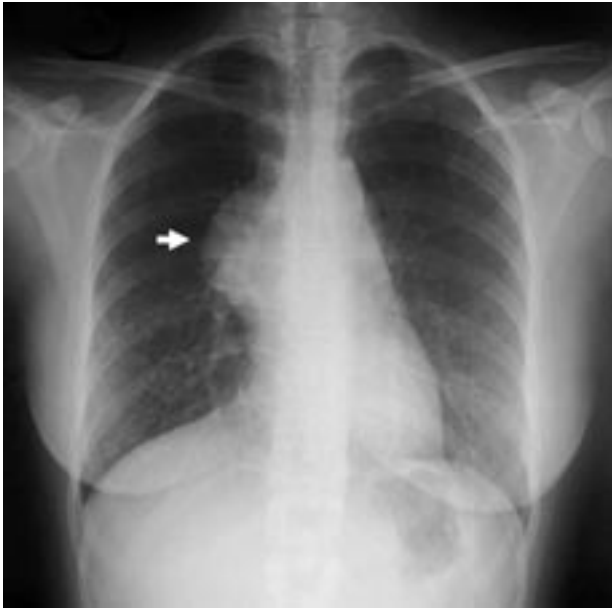


Fig. 1 - Chest X-ray showing a large mediastinal mass.

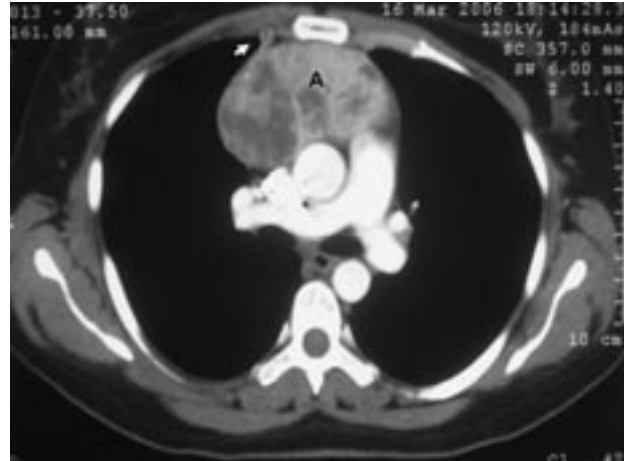


Fig. 2 - Chest CT scan showing a non homogeneous oval mass (A) in the anterior mediastinum and blood supply from thoracic vessels (arrow).

tissue in the chest as in our case; it differs from the secondary goiter because of the absence of connection with thyroid and for the blood supply from mediastinal vessels (3). Few patients are symptomatic showing cough, wheezing, dyspnea, hemoptysis, recurrent pneumonia, dysphagia, chest pain or superior vena cava syndrome due to the growing of mediastinal mass (1, 3). But most of the cases are asymptomatic (4). Thus the diagnosis is usually incidental, as in our case, during preoperative exams, i.e. chest X-ray, disclosing a tracheal displacement, or compression, calcifications and soft tissue mass.

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