Abstract:
The presence of a retropharyngeal mass elicits the possibility of a wide range of diagnosis. Inflammatory lesions are the most frequent, but neoplastic causes should also be excluded. Observation: A 56-years-old man presented with a slow growing left cervical mass. Cervical computed tomography showed cystic and calcified lesions in the left retropharyngeal and supraclavicular spaces. Cytology of the supraclavicular mass revealed papillary thyroid carcinoma cells. Total thyroidectomy with left cervical lymphadenectomy and excision of the retropharyngeal mass were ensued. Histology confirmed retropharyngeal and supraclavicular node metastasis from papillary carcinoma. Discussion: Retropharyngeal node metastization from thyroid papillary carcinoma is very rare, because it commonly happens to paratracheal and jugular lymph nodes.

Case Report:
A 56-year-old man presented with a non-painful left cervical mass, with slow growing pattern for more than one year Figure 1. The patient had no complaints of odynophagia, dysphagia, dysphonia and dyspnea. Physical examination revealed a non-dolorous, large, elastic consistency left supraclavicular mass. Oral examination showed a fibrotic and ulcerated left tonsil pushed by the posterior wall of oropharynx Figure 1. A biopsy of the left tonsil was made, but histology revealed only inflammatory features. Cervical computed tomography Figure 2 showed a cystic and calcified lesion in the left retropharyngeal space with 34mm, promoting compression of the oropharynx. A bulky 68mm mass with the same characteristics was revealed in the left supraclavicular space as well as a retrosternal goiter with one calcified node.

Metastization of thyroid papillary carcinoma to retropharyngeal lymph nodes is very rare, because it commonly happens to paratracheal and jugular lymph nodes.

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Cervical computed tomography Figure 2 showed a cystic and calcified lesion in the left retropharyngeal space with 34mm, promoting compression of the oropharynx. A bulky 68mm mass with the same characteristics was revealed in the left supraclavicular space as well as a retrosternal goiter with one calcified node.

Fine-needle aspirating cytology of the supraclavicular mass revealed papillary thyroid carcinoma cells. The patient was submitted to total thyroidectomy with left cervical lymphadenectomy and excision of the retropharyngeal mass Figures 3 and 4. Both masses noticed in physical examination corresponded to lymph node metastasis of papillary carcinoma.

Discussion: Only 39 cases of retropharyngeal metastasis from thyroid papillary carcinoma have been reported in the literature. The incidence of occult retropharyngeal lymph node metastases from a thyroid primary is uncertain. However, it is known that thyroid carcinoma is the most common source of metastatic deposit to the retropharynx, followed by head and neck primary and hematologic malignancies, as well as cervical lymph node metastases. This case report is consistent with the majority of reports that retropharyngeal node metastases are uncommon.
Figure 1: Physical examination, with palpation of elastic left supraclavicular mass and visualization of left tonsil pushed by the posterior wall of oropharynx.

Figure 2: Cervical computed tomography scan showing calcified and cystic lesions of left retropharyngeal space (blue arrows) and of left subclavicular space, with 34mm and 68mm diameter, respectively.

Figure 3: Intraoperative visualization of retropharyngeal space.

Figure 4: Retropharyngeal nodes (left) and thyroid (right) after surgery.
thyroid papillary carcinoma with histological confirmation were documented until 2011\(^3\). This pattern of metastization results from lymphatic spread: possibly, it comes from retrograde extension from jugular lymph nodes\(^2,4\). Therefore, it either diagnosis or follow-up after cervical lymphadenectomy, periodic imagiological evaluation (with computed tomography or magnetic resonance imaging) of patients with thyroid papillary carcinoma should be done. In fact, there is a high probability of false negative cases with ultrasonography of neck\(^4\). The majority of these metastatic retropharyngeal nodes can be resected via transcervical approach, without mandibulotomy\(^5\).

Conclusion:

Although retropharyngeal metastasis from thyroid papillary carcinoma are uncommon, Otolaryngology practitioners should keep in mind this diagnosis in the work-up of a retropharyngeal mass case. Equally, otolaryngological evaluation of patients unspecified chronic throat symptoms (namely, odynophagia) may allow earlier diagnosis of thyroid papillary carcinoma.

References