An Unusual Case of Thyroglossal Duct Cyst Mimicking Laryngopyocele in an Elderly Patient

The Editor,

Sir,

Thyroglossal duct cyst (TGDC) is the most common developmental abnormality of the thyroid gland that arises from a tubal remnant of thyroid descent during migration (1). It accounts for 70% of congenital neck masses. In 76% of cases, the cyst occurs before age six year (2). While it is the most common congenital neck mass in children, occurrence of the disease in elderly patients is rare (3). In this paper, we reported an elderly patient with TGDC presenting as a lateral neck mass with intralaryngeal extension. Apart from his age, localization and presentation of the cyst, our case was different from other common cases.

A 60-year old man presented with a swelling which had been growing for three years at the left neck region. Physical examination revealed a soft, painless mass at the anterior border of the left sternocleidomastoid muscle. At endoscopic laryngeal examination, swelling at the anterior commissure, which causes minimal obstruction in airway, was observed. A computerized tomography (CT) was performed which revealed a regular boarded cystic mass located inferior to the hyoid bone and extending towards the left-side of the neck, 3 x 5.5 cm in diameter. (Fig. 1) At the axial plane intralaryngeal extension of the cyst was observed.

These CT raised the diagnosis of a laryngopyocele. Under general anaesthesia, excision of the mass was performed. During the operation, it was observed that the mass has a duct extending upwards through the hyoid bone. The patient was diagnosed as TGDC and a sistrunk procedure was performed. The histopathological result was TGDC. The patient had no complaints during the follow-up period.

Thyroglossal duct cyst occurs according to failure to involute and atrophy of TGD in the embryological period (3). It can be located anywhere along the path of TGD, between the foramen caecum and the suprasternal notch and generally presents as a slow growing, painless swelling at the midline of the neck which pathognomically moves with tongue protrusion or swallowing (2, 4, 5). Intralaryngeal extension of TGDC is extremely rare (6), but when it occurs, the appearance is similar to a laryngopyocele. Dermoid or epidermoid cysts, branchial cleft cyst, lymph nodes, thyroid pathologies must also be thought of in the differential diagnosis of TGDC (5).

The treatment of TGDC is surgery. The surgical procedure was described by Sistrunk in 1920 (7). The sistrunk procedure includes removal of the cyst with its tract, the body of hyoid bone and the tissue from the tract to the foramen caecum. It was reported that if the hyoid bone is not removed the recurrence rate is 85% while the recurrence rate decreases to the 2% with removal of the hyoid bone (3).

Besides TGDC generally occurs as a midline neck mass, it must be kept in mind that it may have unexpected presentations such as lateral neck masses and intralaryngeal extension even in elderly patients.

Keywords: Intralaryngeal extension, laryngopyocele, sistrunk procedure, thyroglossal duct cyst

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Fig. 2: Axial computerized tomography showed intralaryngeal extension of the cyst (arrow).
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