⊘SciMedCentral

Annals of Otolaryngology and Rhinology

Case Report

Giant Retropharyngeal Lipoma

Smail Kharoubi*

Department ENT - Chu Annaba, University Badji Mokhtar Annaba, Algeria

Abstract

Lipoma is a common soft tumor tissue that can develop anywhere in the body. The retropharyngeal space is a rare location for these benign tumors. Clinically it procures dysphagia, pharyngeal discomfort, snoring, or sleep apnea. Imaging (CT Scan and MRI) is necessary for diagnosis, extension, and previous surgical procedures. We report in this publication a giant lipoma of retropharyngeal space in 75 year old man diagnosed after dysphagia exploration and treated with trans cervical surgical approach.

INTRODUCTION

The retropharyngeal space is an anatomical region that spans from the base of the skull to the mediastinum. This space is anterior to the prevertebral muscles and posterior to the pharynx and esophagus. In retropharyngeal space, lymph nodes, fatty tissue and small vessels are the predominant tissues. Many tumors can developed in retropharyngeal space: lipoma, schwannoma, retropharyngeal abscess, branchial cysts, squamous carcinoma, liposarcoma, synovial sarcoma, metastatic adenopathy and lymphomas (Table 1).

Lipomas in the head and neck are more uncommon accounting for 25% of all lipomas and 1% of them in retropharyngeal space [1]. The extending space, slow growing and deep lesion may go undiagnosed and the symptomatology associate dysphagia, dyspnoea and snoring. Imaging MRI (Magnetic Resonance Imaging) facilitate size, extension and nature of the lesion. The management was surgical.

CASE PRESENTATION

75 year old man, presented to our ENT department with progressive dysphagia and dysphonia. He reports since three months dyspnea after efforts with recent aggravation. He reported also, snoring and sometimes sleeping apnea. The clinical

 Table 1: Summary of retropharyngeal tumors colliged by the author between 2000 and 2023. F: Female; M: Male

CASE	YEAR	AGE	GENDER	PATHOLOGY	TREATMENT
1	2000	58	М	SQUAMOUS CARCINOIMA	TRANS ORAL
2	2005	77	М	CHORDOMA	TRANS CERVICAL
3	2005	12	F	ABSCESS	TRANS ORAL
4	2007	52	М	TUBERCULOSIS	TRANS ORAL
5	2008	10	F	ABSCESS	TRANS ORAL
6	2020	12	М	LYMPHOMA (NHL-B)	TRANS ORAL
7	2023	75	М	LIPOMA	TRANS CERVICAL
8	2023	66	F	CHORDOMA	TRANS ORAL

*Corresponding author

Smail Kharoubi, Department ENT - Chu Annaba, Faculty of Medicine, University Badji Mokhtar Annaba, Algeria Submitted: 27 December 2023

Accepted: 27 January 2024

Published: 29 January 2024

ISSN: 2379-948X

Copyright

© 2024 Kharoubi S

OPEN ACCESS

Keywords

- Lipoma
- Retropharyngeal Space
- MR Imaging
- Cervicotomy

exam showed a swallowing neck predominates on the right side homogenous, without pain and farm after palpation. Flexible nasal endoscopy noted a diminution of the mobility of the right vocal plica. A cervical ultrasound exam noted a homogenized and enlarged cervical mass (Figure 1,2). A CT scan found the largest tumor homogenous occupied retropharyngeal in lateral cervical space, suggesting lipoma. MRI confirmed the diagnosis of retropharyngeal giant lipoma with cervical (right) extension. There was no invasion to the neighboring structures (Figures 3-6). A right cervicotomy exposed the lesion and we removed a giant lipoma (30x20cm) after separating neurovascular structures (Figure 7). A histopathologic exam confirmed benign lipoma (fibrolipoma) and the fellow up was simple.





Cite this article: Kharoubi S (2024) Giant Retropharyngeal Lipoma. Ann Otolaryngol Rhinol 11(1): 1326.

\bigcirc SciMedCentral



Figure 2 Ultrasonography- Right Cervical part: homogenic mass compressed right thyroid lobe.



Figure 3 Coronal CT image showing large fat density mass occupied cervical space compressing trachea.



Figure 5 Axial CT Scan showing fat density mass in retropharyngeal space.



Figure 6 Axial RM image showing largest mass (fat) hyper intense signal on fat satured T2WI.



Figure 7 Surgical specimen well circumscribed with thin fibrous capsule.



Figure 4 Sagittal reformatted CT image showing fat density mass in the retropharyngeal space.

DISCUSSION

Lipoma is the most common benign mesenchymal tumor and can virtually develop anywhere in the body [2]. The mean age of patients was 49.9 years, with a range from 2 years to 81 years as common in men. It's also described in child (snoring) [3]. The can sporadically occur as part of syndromic lipomatosis such as Madelung's disease or Launois-Bensaude syndrom [4].

Between 2000 and 2020, Alnami reported 27 cases of retropharyngeal lipomas [5]. Our review of the literature has found four supplementary cases.

The clinical presentations of patients with retropharyngeal lipomas varied widely. The major symptom is a progressive dysphagia and unintentional weight loss. We can also found, snoring, rhinolalia, pharyngeal discomfort, and sleep apnea, fortunately discovered after imaging [6,7].

Lipomas appear as soft variably echogenic masses, commonly encountered on ultrasound, without or minimal color Doppler flow. Furthermore, heterogeneous echotexture, more than minimal color Doppler flow, or large size is suspicious for liposarcoma [8]. On CT, the retropharyngeal lipoma appears as a well-circumscribed non-enhancing lesion with homogeneous fat attenuation. Ehlers report one case in 66 year-old-female diagnosed after cone beam computed tomography (CBCT) in pre implant dental cheek [1].

On MR images, fat has typical signal intensity on T1 weighted images, they tend to have high signal intensity that decreases with progressive T2 weighting. The relationship between the lipoma and the prevertebral muscles is noted as well as the possibility of a liposarcoma. Fat tissue ranging between - 50 to 150 Hounsfield units [8]. The lesion may contain thin septa.

Fine-needle aspiration cytology (FNAC) can help with the diagnosis, but definitive diagnosis requires on histological confirmation after surgical excision.

While the transoral approach (classically or by transoral robotic surgery) is often preferred since it has lower morbidity, we performed the transcervical approach considering the giant size of retropharyngeal lipoma [6]. Varghese removed a 12 X 11,7 cm retropharyngeal lipoma by trans oral approach [9].

Bowers choose anteriortrans cervical procedure after larynx rotated medially to acces the anterior border of the spine and removed an osteolipoma of retropharyngeal space [10].

Lipoma may have different histologic subtypes, including angiolipoma, fibrolipoma, chondrolipoma, myxoid lipoma, pleiomorphic lipoma, spindle cell lipoma and osteolipoma [10,11].

The principal differential diagnosis is the well differentiated

liposarcomamay be suspected by imaging (Doppler color, relationship with prevertebral muscles in RM images, fine needle aspiration cytology) but essentially through histopathologic exam (immunohistochemistry) [12].

There is no evidence of malignant transformation or recurrence after complete resection of a retropharyngeal lipoma [2].

CONCLUSION

Retropharyngeal lipomas are rarely reported as an etiology of dysphagia in adults. Clinical exam can shows an enlarged tumor of retropharyngeal (oropharyngeal exam) or parapharyngeal space (cervical exam). CT and imaging MR are necessary to recognize lipoma, extension cheek and ideal surgical procedure (transoral or trans cervical).

REFERENCES

- 1. Ehlers SA, Bozanich JM, Arashlow MT, Liang H, Nair MK. Large airwayobstructing retropharyngeal lipoma in an asymptomatic patient: a case report. Int J Implant Dent. 2020; 6: 38.
- Barnes L. Tumors and tumor like lesions of the head and neck. Surgical pathology of the head and neck New York. Marcel Decker Inc. 1985; 747-58.
- Jin SM, Lee DH, Lee JK, Lim SC. Retropharyngeal lipoma presenting with snoring in a child. Int J Oral Maxillofac Surg. 2018; 47: 1541-1542.
- Chrysovitsiotis G, Papanikolaou V, Kyrodimos E, Giotakis E. Symptomatic retropharyngeal space lipoma. A patient with Madelung disease. Hippokratia. 2020; 24: 91-93.
- Alnami RA, Saabi SM, Mossery RA, Alnami BA, Al Ghadeeb M. A Giant Retropharyngeal Lipoma: A Case Report and Review of Literature. Cureus. 2022; 14: e29022.
- 6. Leong P, Kleid S, Mansfield D. Retropharyngeal lipoma causing obstructive sleep apnoea. Respirol Case Rep. 2017; 5: e00251.
- 7. Ghammam M, Houas J, Bellakhdher M, Abdelkefi M. A huge retropharyngeal lipoma: a rare cause of dysphagia: a case report and literature review. Pan Afr Med J. 2019; 33: 12.
- 8. Rahmani G, McCarthy P, Bergin D. The diagnostic accuracy of ultrasonography for soft tissue lipomas: a systematic review. Acta Radiol Open. 2017; 6: 2058460117716704.
- Varghese SS, Varghese A, Paul PA. Retropharyngeal Lipomatous Hamartoma: Case Report and Review of Literature. Iran J Otorhinolaryngol. 2023; 35: 67-71.
- Bowers ID, Imlay SP, Schroeder N, Bahu SJ. Retropharyngeal Osteolipoma Requiring an Interdisciplinary Approach. Ear Nose Throat J. 2022; 101: 231-233.
- 11. Lee HK, Hwang SB, Chung GH, Hong KH, Jang KY. Retropharyngeal spindle cell/pleomorphic lipoma. Korean J Radiol. 2013; 14: 493-6.
- 12. Loudghiri M, SaoutArrih B, Oukessou Y, Rouadi S, Abada R, Mahtar M. Management of a rare case of parapharyngeal lipoma presentation of case. Int J Surg Case Rep. 2023; 106: 108145.