

Unusual location of retropharyngeal tuberculosis: A Case report

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Abstract

Retropharyngeal tuberculosis is a rare localization of tuberculosis. It is clinically characterized by dysphonia and odynophagia and may in some cases remain asymptomatic. The diagnosis is based on imaging, bacteriology, and anatomic pathology.

We report the case of a patient who was admitted to our department for a retropharyngeal abscess and her surgical and medical management.

Keywords: retropharyngeal abscess – tuberculosis – surgical drainage – anti bacillary

1. Introduction

A retropharyngeal abscess is an infection in one of the deep spaces of the neck. It is rare in adults and can occur following local trauma, such as ingestion of a foreign body (fishbone) or instrumental interventions (laryngoscopy, endotracheal intubation, placement of a feeding tube, etc.), or in the specific context of associated disease.

Involvement of the posterior wall of the pharynx is rare but potentially serious, particularly because of its consequences on swallowing and

especially on breathing. Retropharyngeal abscesses require rapid diagnosis and early management which frequently involves surgical drainage to achieve the best results.

The present study reviews, through a case of cold retropharyngeal abscess revealing pharyngeal tuberculosis, our experience in the management of these abscesses.

2. Clinical case

We report the case of a young 21-year-old patient with a CHIARI type II malformation as ATCDS for which she was operated on in 2018, lymph node tuberculosis in 2019 who received anti-tuberculosis treatment.

Admitted to the emergency room of the Mohammed V military instruction hospital for intense and permanent chronic headaches

evolving for 01 months and associated with fever and unquantified weight loss without dysphagia or dyspnea

A cerebral CT showed a retropharyngeal collection enhanced peripherally after injection of PDC measuring 19 * 21 mm with adjacent necrotic adenopathy of 10 * 6 mm (**Figure 1**)



Figure 1: axial section of a cerebral computed tomography showing the retropharyngeal collection

She was hospitalized in the ENT and CCF departments for treatment. The oropharyngeal examination objectified a bulging of the left posterolateral wall of the pharynx pushing back the ipsilateral tonsillar compartment. (**Figure 2**)

Cervical examination revealed no palpable lymphadenopathy.

The biological assessment was kept. The HIV serology was negative and the search for BK in the sputum came back negative

A cervical MRI objectified at the level of the left retropharyngeal space of two contiguous collections, in hyposignal T1, hyper signal T2, enhancing in the periphery after injection of Gadolinium,

containing multiple partitions and extended over 15*26*47 (from the clivus to C3) suggesting a cold abscess. (Figure 3)



Figure 2: Endoscopic image showing the bulging of the left posterior wall of the oropharynx

The diagnosis of a cold retropharyngeal abscess was retained. The patient underwent surgical drainage of the retropharyngeal abscess under general anesthesia bringing back a purulent liquid. Detection of Mycobacterium tuberculosis by PCR (gene Xpert) came back positive with detection of resistance to rifampicin and culture on Löwenstein medium found Koch's bacilli. Histological examination

revealed a morphological aspect of a necrotizing granulomatosis reaction with a caseous appearance in favour of tuberculosis. The patient was put on anti-bacillary quadruple therapy combining rifampicin (10 mg/kg per day), isoniazid (5 mg/kg per day), pyrazinamide (30 mg/kg per day), ethambutol (15 mg/kg per day) for two months, then dual therapy combining rifampicin and isoniazid for seven months with a very good clinical and biological outcome.

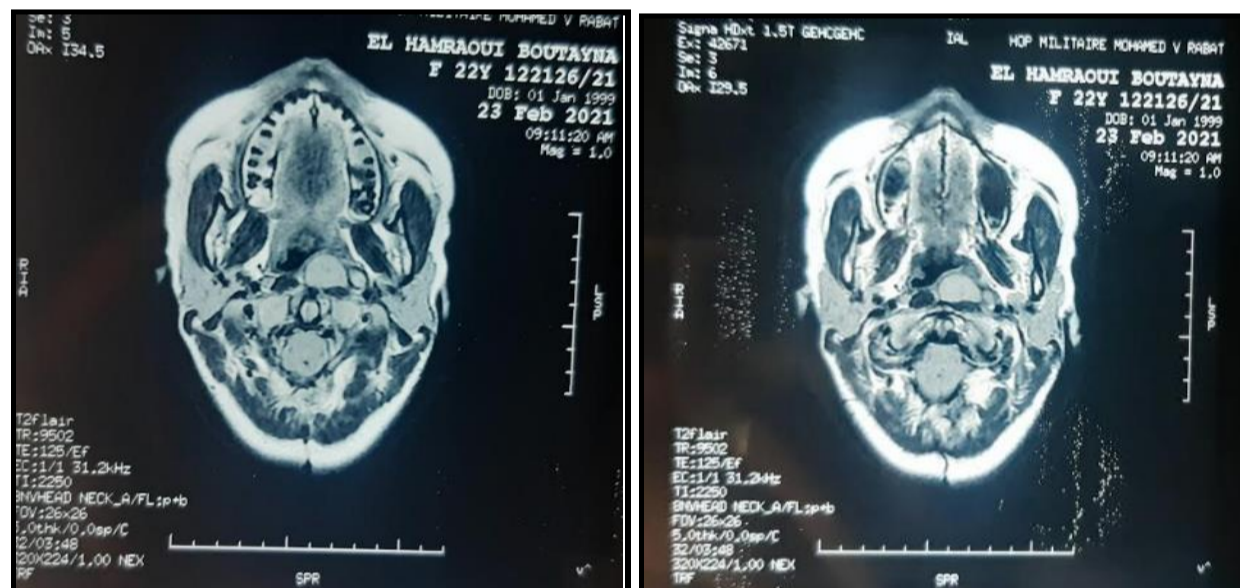


Figure 3: axial sections of a cervical MRI showing the retropharyngeal abscess in T1 and T2

3. Discussion

The location of tuberculosis is pulmonary in 80 % of cases and extra-pulmonary (TEP) in 20 % of cases. PET mainly affects the lymph nodes (84.9 % of cases), and the intestines (8.7 %). [1]

ENT impairment is encountered in 9.73 % of cases.

Tuberculosis of the pharynx is a rare condition, accounting for 0.97 % of cases.

It is not uncommon to encounter different associated forms, yet isolated involvement of the posterior wall of the pharynx is possible. [2]

In addition to the military form of the pharynx, many authors report cases of abscessed collections involving the posterior wall of the pharynx. [3]

It is most often secondary to ingestion of a foreign body or trauma to the posterior pharyngeal wall. The tuberculous origin should be systematically sought, especially if it is a cold abscess [4]

The age of onset of tuberculosis in the oropharynx has two peaks at 30 and 60 years for Zanaret et al for all ENT locations [5]. Lecointre et al presented an age range of 15 to 87 years [6]

Women are the most affected, with a sex ratio of 0.66 [3]

There are three classic modes of contamination of tuberculosis, namely hematogenous, lymphatic and airborne. The lymphatic and hematogenous pathways would be involved in the pharyngeal localization observed in our patient. [3]

Clinical diagnosis can be difficult. The clinical symptomatology is variable and nonspecific, made up mainly of signs reflecting oropharyngeal compression: dysphagia, odynophagia, modification of the timbre of the voice or dyspnea. Signs of tuberculous impregnation are not systematically found [7]

The differential diagnosis is made with cancer of the pharynx as well as with other causes of granulomatosis of infectious origin or not [8]

CT and MRI are very useful for diagnosis by showing a retropharyngeal abscess, its reports and especially the pharyngeal extension of a lesion of the cervical spine (Pott's disease) [9]

The diagnosis of retropharyngeal tuberculosis is bacteriological and/or histological. The field of immunosuppression must always be sought. It can be diabetes, an infection with the acquired immunodeficiency virus. [10]

Treatment aims to eradicate the infection and restore swallowing function. [11]

4. Conclusion

Retropharyngeal tuberculosis is a rare condition, revealed by dysphonia but especially by dragging or chronic odynophagia; however, the clinical picture may be silent.

The diagnosis is pathological, confirmed by the presence of AFB in other locations aided by imaging (CT and MRI)

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