Case Report

Unexpected etiology of dysphagia in an immunocompetent adult

Abstract

Retropharyngeal abscesses are exceptional in adults. The most common are post-traumatic or foreign-body pyogenic abscesses. Tuberculosis remains a rare and unusual cause of these abscesses, particularly reported if underlying cervical vertebra involvement. Exceptionally, they may be the revealing feature of cervical Pott’s disease. They are particularly observed in immunocompromised individuals, whereas they remain exceptional in immunocompetent adults. These abscesses remain an exceptional and unusual cause of dysphagia even in tuberculosis endemic countries, and only a few sporadic cases have been reported. We report an original case of isolated dysphagia revealing a tuberculous retropharyngeal abscess associated with very destructive cervical spondylodiscitis, without any neurological signs, occurring in immunocompetent adult woman.

Keywords: dysphagia, tuberculous retropharyngeal abscess, immunocompetent adult, tuberculosis, pott’s disease

Introduction

Retropharyngeal abscesses are exceptional in adults.\(^1\) The most common are post-traumatic or foreign-body pyogenic abscesses.\(^1,2\) Their diagnosis is a real emergency because of the risk of rupture into the upper respiratory tract that can be fatal.\(^2,4\) Tuberculosis remains a rare and unusual cause of these retropharyngeal abscesses,\(^1,2\) particularly reported if underlying cervical vertebra involvement.\(^1,2\) More rarely, retropharyngeal abscess may be the revealing feature of cervical tuberculous spondylodiscitis.\(^1,2,3\) It is particularly observed in immunocompromised individuals, whereas it remains exceptional in immunocompetent adults.\(^1,2\) We report an original case of isolated dysphagia revealing a tuberculous retropharyngeal abscess associated with very destructive cervical spondylodiscitis, without any neurological signs, occurring in immunocompetent adult woman.

Case report

A 34-year-old Tunisian woman with no pathological medical history was hospitalized in our department for exploration of isolated upper dysphagia. This dysphagia was incidious, progressively worsening since a month ago, noted for the solids at first and then for solids and liquids. No cervical trauma, toxic substance abuse, accidental intoxication, fever, dysphonia, dysphagia, or weight loss have been reported. Somatic examination indicated a stiffness of the cervical spine, with in particular a significant and painful limitation of lateral inclinations and bilateral inflammatory cervical lymphadenopathy. The remainder of the somatic examination was without abnormalities, in particular there was no evidence of neurological deficit, visceromegaly, or palpable masses.

Biology showed a marked inflammatory biological syndrome: erythrocyte sedimentation rate at 130mm/H1, a C-reactive protein at 38mg/l, and a normochromic normocytic anemia at 10 g/dl of hemoglobin. Leukocytes, platelets, blood glucose, serum calcium, creatinine, ionogram, transaminases, muscle enzymes, and lipid parameters were within normal limits. X-rays of the cervical spine showed significant damage of the fifth and sixth cervical vertebrae (C5 and C6) with destruction of the vertebral bodies, narrowing of the joint space and marked thickening of the retropharyngeal space. Cervical computed tomography (CT) confirmed the diagnosis of advanced C5-C6 spondylodiscitis (Figures 1 & 2) and demonstrated a large retropharyngeal abscess exerting a mass effect on aerodigestive structures (Figure 3).

Figure 1 Sagittal cervical CT/bone window: C5-C6 spondylodiscitis with retropharyngeal abscess.
A dual therapy combining isoniazid and rifampicin was continued for another eight months.

Discussion

The cervical spine is an extremely rare localization of vertebral tuberculosis.\(^6\) Its frequency is estimated at 2-5% of all tuberculous spondylodiscitis.\(^1,9\) In rare cases, these spondylodiscitis may be complicated by cold para- or retropharyngeal abscesses\(^2\) and may be the cause of oropharyngeal obstruction.\(^1,4\) More rarely, these retropharyngeal abscesses may be associated with sternum\(^10\) or active pulmonary tuberculosis.\(^7,11\) Exceptionally retropharyngeal tuberculous abscess may be primitive, without any cervical spine tuberculosis.\(^1,5,7,10,12\) The clinical presentation of these abscesses varies from totally asymptomatic forms\(^12\) to forms resulting in oropharyngeal obstruction symptoms: odynophagia, dysphagia, dyspnoea, laterocervical swelling, and hoarseness of the voice.\(^1,2,4,10\) CT and MRI are very useful for the positive diagnosis, the assessment of lesions, and the post-therapeutic follow-up of these abscesses.\(^1,2,8\)

Even in tuberculosis endemic countries, tuberculous retropharyngeal abscess remains an exceptional and unusual cause of dysphagia,\(^10,13,14\) and only a few sporadic cases have been reported in the global medical literature.

The prognosis is usually favorable under anti-tuberculosis drugs.\(^1,2\) Surgical drainage is indicated for large abscesses, whereas neurosurgical treatment is only necessary in cases of neurological deficit or vertebral instability.\(^1\) Early diagnosis and timely and appropriate management are highly recommended because these abscesses can be fatal.\(^4\) Our observation is distinguished by dysphagia as an inaugural and isolated symptom, the immunocompetent status of the patient, and the absence of neurological signs despite advanced cervical vertebra destruction.

Conclusion

Tuberculous retropharyngeal abscess remain exceptional in immunocompetent adult subjects. They represent real diagnostic and therapeutic emergencies because of the potential risk of rupture into the upper respiratory tract that can be fatal. This unusual etiology of dysphagia is worthy of mention in front of any dysphagia that not prove itself, especially in countries endemic for tuberculosis.

Acknowledgment

None.

Conflicts of interest

Author declares their are no conflits of interest.

References


