TUBERCULOUS PAPILLITIS

PAPILITIS TUBERCULOSA

ASENSIO-SÁNCHEZ VM¹, TORREBLANCA-AGÜERA B², MARTÍNEZ-CALVO S², CALVO MJ², RODRÍGUEZ R¹

ABSTRACT

Case report: We describe a 65-year-old asymptomatic woman with unilateral optic disc edema. Laboratory testing revealed a very marked positive PPD (25 mm) with dermatolysis. Anti-tuberculosis therapy resulted in complete resolution. Discussion: Tuberculosis should be considered in the diagnosis of papillitis, even in asymptomatic patients (Arch Soc Esp Oftalmol 2006; 81: 37-40).

Key words: Ocular tuberculosis, papillitis, PPD.

INTRODUCTION

Tuberculosis (TBC) is a declarable disease caused by mycobacterium tuberculosis, which mainly affects the lungs but can also involve any organ and/or tissue. The involvement of the eye can occur in the context of milliar tuberculosis (mainly choroidal infiltrates), but it can also appear in patients without evidence of active lung disease (1-4), as in this case.

CASE REPORT

A 65 year-old Ecuadorian woman without relevant personal or family history, who visited the...
external ophthalmology practice due to painless reduction of vision in the right eye (RE) with a 3-4 month evolution. Maximum visual acuity (VA) in the RE was 0.5 and in the left eye (LE) VA was 1. Extrinsic and intrinsic motility was normal. In the RE a papillar edema was appreciated with some sub-retinian exudate (fig. 1). Orbital and brain CAT and MRI, luetic serology, enzime converter of angiotensine, Lyme serology and thorax X-ray were negative. Systemic study via devices was not significant. In its first 24 hours, the man-toux or Tuberculosis Skin Test (PPD) already displayed a 25-mm induration with areas exhibiting skin necrosis (fig. 2). The thorax X-ray was repeated with equally negative results. A cephallic liquid punction displayed an outgoing pressure of 16cm H2O with normal biochemistry and negative culture. Electrophoresis of cephallic liquid did not reveal aligoclonal bands. Uroculture and expectoration culture were also negative for the growth of mycobacterium tuberculosis. As ocular tuberculosis was suspected, a test was made with 300 mg/day of isoniazide for 3 weeks with subjective improvement in RE vision, although maximim vision remained at 0.5. Isoniazi-de treatment was given (300 mg) for 9 months together with Rifampin 600 mg (9 months), pyrazinamide 15 mg/kg (2 months) and etambutol 15 mg/kg (2 months).

One year after the first consultation, the visual acuity of the RE was 0.9 and its exploration gave normal results.

**DISCUSSION**

Tuberculosis is an infectious (acute or chronic) disease caused by mycobacterium tuberculosis, which involves mainly the lungs although it can target any organ or tissue (1,3). The incidence of ophthalmological expressions is of up to 2%, although its assessment if considerably difficult (1,3). Any eye tissue, excepting the lens, can be affected due to hematic dissemination, direct extension of the bacillus, as a response of a cellular reaction or as a Type 4 hyper-sensitivity (2,3). The optic nerve is generally affected in the context of tubercular meningitis and mainly at the retro-bulbar level, the anterior area is usually affected secondary to choroiditis (4). Eye tuberculosis diagnosis is very difficult without evidence of a primary focus. Biopsy is usually reserved for seriously damaged tissue, and cephallic liquid puncture for M. tuberculosis in eye fluids is not standardized (4). In general, the TB diagnosis is endorsed by a positive thorax X-ray or by a positive PPD with induration (not edema) of 15 mm or more, associated to exposure antecedents. Stechschulte SU et al (4) described the case of a woman with TB which first appeared as neuroretinitis, with normal chest X-ray and necrotic 15 mm PPD. Even though the chest X-ray is normal in the described patient, the 25-mm necrotic PPD and the positive response to antituberculo agents provided pointers towards diagnosing eye tuberculosis.
REFERENCES


Tuberculous papillitis