Syphilis presenting as acute syphilitic posterior placoid chorioretinitis

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DESCRIPTION

A 59-year-old man who has sex with men presented to the emergency department with a 1-week history of bilateral central vision loss. Visual acuity (VA) was 6/60 and 6/18 in the left and right eye, respectively. Slit-lamp examination revealed mild, bilateral anterior and intermediate uveitis, optic nerve head swelling, placoid lesions at the macula and chorioretinitis encompassing the optic nerve and macula in a circinate distribution (figure 1). Haematological investigation revealed a reactive enzyme immune assay and a rapid plasma reagin titre of 1:160, suggestive of acute syphilitic posterior placoid chorioretinitis (ASPPC).

Syphilis is a systemic infection secondary to the spirochete Treponema pallidum, of which the incidence is increasing in developed nations, especially in specific groups such as men who have sex with men and intravenous drug users.1 2 Moreover, syphilis can commonly present as a coinfection with HIV.1 2 The manifestations of syphilis are vast and can often masquerade as different systemic and ophthalmological presentations leading to delay of diagnosis and management and potential irreversible visual loss.1 2

ASPPC is a rare manifestation of ocular syphilis, with placoid lesions likely developing secondary to chorioretinal inflammation with outer retinal immune complex deposition, although the exact pathophysiology is not known.1 3 Optical coherence tomography in patients affected by ASPPC is useful in aiding diagnosis and reveals disruption of the outer ellipsoid zone and nodular irregularity of the retinal pigment epithelium and outer retina (figure 2).2 3

Treatment of this entity primarily involves the use of antibiotics. In some instances, anti-inflammatory agents such as tumour necrosis factor alpha inhibitors or corticosteroids may be considered to reduce inflammation and to prevent Jarisch-Herxheimer reaction.1 4 5 The patient was initially treated with intravenous benzylpenicillin for two weeks and a tapering course of prednisone initiated 36 hours after commencing antibiotics. At 11-week final follow-up, the VA was 6/9 bilaterally and there was regression of the outer retina placoid lesions.

Learning points

- The incidence of syphilis is increasing especially in groups such as men who have sex with men and intravenous drug users.
- Syphilis should be investigated in patients presenting with acute chorioretinitis.
- Treatment of acute syphilitic posterior placoid chorioretinitis primarily involves the use of antibiotics such as intravenous benzylpenicillin and anti-inflammatory agents may be considered in some cases.

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