Tuberculosis of the conjunctiva occurring in association with a neighbouring lupus vulgaris lesion

C D Cook, M Hainsworth

Abstract
A case of tuberculosis of the conjunctiva in association with a neighbouring lupus vulgaris lesion is reported. Both lesions resolved within one month of starting antituberculous therapy. Tuberculosis of the conjunctiva is nowadays a rare condition. It should be considered in the differential diagnosis of any unusual chronic conjunctivitis, particularly in patients who are at risk of contracting tuberculosis.

Tuberculosis of the conjunctiva is a rare condition. The first case was reported by Koester in 1873. Eyre reviewed 206 cases which had been reported over a 30-year period from 1882 to 1912, with a further personal series of 24 cases. Lundsgaard reported 48 cases in 1915 and Igeisheimer another 22 cases in 1922. There have been subsequent isolated reports.

Case report
A 25-year-old Zulu woman was referred with a six-month history of conjunctivitis of the left eye associated with an ulcer adjacent to the left nares. She had no other complaints and had previously been well. She had been treated with chloramphenicol ointment for three weeks, with no improvement.

On examination the visual acuity in the right eye was 6/6 and in the left eye was 6/12. The right eye was normal. There was a left-sided conjunctivitis with a mucopurulent discharge, with superficial ulceration of the lower lid margin, obliteration of the punctum, and cicatricial entropion of the lid (Fig 1). The lower third of the cornea showed mild superficial stromal scarring, with a Hudson-Stahli ferritin line. The eye was otherwise normal. There was no palpable pre-auricular or other regional lymphadenopathy. There was a chronic superficial ulcer of the skin under the left nares (Fig 2). The nose and throat were normal. The skin lesion was thought most likely to be lupus vulgaris, and a provisional diagnosis of primary tuberculosis lupus vulgaris with an associated tuberculous conjunctivitis was made.

Histology of the skin lesion showed appearances consistent with lupus vulgaris, with tuberculoid granulomas being present in the papillary dermis (Figs 3A, B). Histology of the con-
tuberculous conjunctivitis occurred as a result of an exogenous infection. There are five clinical types – ulcerative, nodular, hypertrophic, granulomatous, and pedunculated. It may occur more commonly in young than old patients, and may be associated with regional lymphadenopathy. It runs a chronic course, and may heal with scarring or may spread to involve adjacent tissues and structures.

Secondary tuberculous conjunctivitis occurs as a result of spread of infection from a contiguous focus. There are six clinical types – ulcerative, nodular, hypertrophic, granulomatous, pedunculated, and lupoid. It may occur more commonly in adults than children and may not be associated with regional lymphadenopathy.1

In both instances, the diagnosis is confirmed on histological examination. Treatment is with systemic antituberculous therapy, and there is usually rapid resolution of the conjunctivitis on this therapy.

Our patient showed features of a conjunctivitis occurring in association with a neighbouring, but not contiguous, lupus vulgaris lesion. While the diagnosis of tuberculosis was suggested in our patient by the lupus vulgaris skin lesion, the clinical picture of tuberculous conjunctivitis may be sufficiently varied as to make a clinical diagnosis difficult. It is therefore necessary to consider it in any unusual chronic conjunctivitis, with or without regional lymphadenopathy, particularly in patients living in communities where the incidence of tuberculosis is still high.