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Atypical herpetic keratitis presenting as multifocal epithelial lesions

Queratitis herpética atípica presentándose como lesiones epiteliales multifocales

Atypical herpetic keratitis.

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Humans are the only natural reservoir of herpes simplex virus 1, which can invade its host after contact with mucosal surfaces or through abraded skin.

Primary infection, either ocular or extraocular, manifests clinically only in a percentage of people, which has yet to be determined, but is considered to be less than 20% and, therefore, being around 80% of cases asymptomatic, the infection passes without being recognized most of the time.

Following this primary infection, the virus establishes in sensory neurons where it remains for the lifetime of the host, and, upon reactivation, reappears usually at mucocutaneous junction of the lips causing herpes labialis, commonly known as cold sores or fever blisters. However, rarely, following reactivation the virus involves the ophthalmic branch of the trigeminal nerve and cause ocular disease including keratitis (1-6).

A 60-year-old woman presented referring red eye, foreign body sensation and moderate photophobia in the right eye for one week. She was receiving a combination of antibiotic and topical steroid prescribed by a general practitioner. Upon examination in the slit lamp, four separate dendritic-shaped epithelial lesions were found, very suggestive of epithelial herpetic keratitis, but which was presented with a multifocal compromise, which is a very uncommon presentation, since these corneal epithelial ulcers usually are single lesions of variable size (figure 1). One factor that could lead to this atypical presentation was the use of topical dexamethasone. Since 1960s it has been considered that steroids are contraindicated when there is corneal epithelial compromise by the herpes simplex virus (7-11). It has been suggested that the use of steroids in epithelial herpetic
keratitis increases the risk of progressing the ulcer from dendritic to geographical, and the possibility of multifocality (10,11).

This case reaffirms the probability of worsening the clinical picture with the use of these substances when the virus is compromising the epithelium. Therefore, since this condition can be confused with infectious conjunctivitis, the general practitioner should be cautious, and look for symptoms like photophobia, which would suggest corneal involvement. The use of topical steroids should be avoided, since it can aggravate the ocular affectation by the herpes virus, like in this case.

Keywords: keratitis, herpetic eye disease, herpes simplex, cornea, corticosteroids.

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Figure 1: Multiple dendritic epithelial ulcers stained with fluorescein in a 60-year-old woman who received topical steroids prescribed by a general practitioner. Clinical photographs in slit lamp, illuminated with white light (left) and using the cobalt blue filter (right).