Herpetic Geometric Glossitis in an Immunocompetent Patient

Glositis geométrica herpética en un paciente inmunocompetente

To the Editor,

Herpetic geometric glossitis (HGG) is an infrequent manifestation of oral herpes simplex virus infection. Because it is a painful and incapacitating form of glossitis, a delay in diagnosis can lead to malnutrition and secondary infection due to an altered epithelial barrier function. While initially considered a disease found exclusively in immunocompromised patients, we describe a case of HGG in an immunocompetent patient who responded to systemic antiviral treatment.

The patient is a 30-year-old woman with a 12-month history of pain on her tongue and altered sense of taste. She had no relevant prior medical history and had given birth to a healthy boy one year before her consult. She described seeing lumps on the back of her tongue that seemed to grow progressively accompanied by increasing pain that sometimes made eating difficult. She also noticed hypogeusia and, more recently, dysgeusia. Recently, she noticed small ulcers in the inner part of her lips which caused further pain and discomfort. She had received treatment with oral nystatin but showed no improvement.

On physical examination of the oral cavity, multiple 2 to 5-mm shallow ulcers with an erythematous base were found in her lower labial mucosa (Fig. 1) and the lateral borders of her tongue. The middle third of the dorsum of the tongue had deep interlocking fissures that gave it a nodular appearance while the lateral thirds of the tongue had a smooth, atrophic appearance (Fig. 2). No associated adenopathy was found on examination.

A bacterial culture showed normal oral flora. A Tzanck smear of the ulcers showed numerous multinucleated giant cells. A second sample from the dorsum of the tongue showed the same cells in small numbers. Due to the presence of mucosal ulcers, deep tongue fissures and intense pain and a positive Tzanck smear, the patient was diagnosed with herpetic stomatitis and geometric herpetic glossitis. HIV test was nonreactive, complete blood cell count, C-reactive protein, serum immunoglobulins and blood chemistry were within normal ranges and antinuclear antibodies were negative.

The patient was treated with acyclovir 400 mg three times a day for 10 days. The lip ulcers, major fissures, pain and taste disturbances resolved completely after treatment (Fig. 3) while the dorsum of the tongue gradually returned to its normal appearance. The patient has not presented recurrences 12 months after treatment.

Figure 1 Multiple 2–5-mm shallow ulcers with an erythematous base on the patient’s lower labial mucosa and lateral borders of her tongue.

Figure 2 Deep interlocking fissures imparting a nodular appearance to the middle third of the tongue; the lateral thirds of the tongue show a smooth, atrophic appearance.

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with acute myelogenous leukemia who responded to treatment with famciclovir.\textsuperscript{2} Antiviral resistance testing may be warranted if patients with confirmed viral infection fail to respond to treatment.\textsuperscript{3}

HGG should be considered in the differential diagnosis of all patients presenting with mucositis or glossitis, especially if associated with pain or tenderness. A Tzanck smear can be included, along with other inexpensive and non-invasive tests such as a Gram stain, in the initial evaluation of these patients to rule out HHG and other common infections.

References


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Figure 3 Improvement after 10 days of treatment with acyclovir. The patient’s symptoms completely subsided after this treatment period.