

## Clinical Pathology Conference Cases Presented at the Annual Meeting of the American Academy of Oral and Maxillofacial Pathology, April 8-13, 2022

### CLINICAL PATHOLOGY CORRELATION

#### CASE 1: MULTIPLE PAINFUL LESIONS OF THE TONGUE

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**Clinical Presentation:** A 33-year-old black male presented to the oral pathologist with a two-month history of painful lesions on the right side of the tongue. The patient had no significant medical history, and he reported occasional marijuana use. Clinical evaluation revealed several firm white patches on the right lateral and ventral tongue that were extremely tender both to palpation and at rest (Figure 1). The remainder of the oral mucosa was within normal limits, and the patient reported no other lesions.

**Differential Diagnosis:** The list of differential diagnoses for white lesions affecting the tongue is quite broad. Considerations in the differential diagnosis could include frictional keratosis, oral lichen planus, oral hairy leukoplakia, candidiasis, syphilis, and epithelial dysplasia.

The local factors considered for frictional keratosis included sharp teeth or broken restorations, and morsicatio mucosae oris. Chronic nibbling of the oral mucosa often results in white lesions that most frequently involve the tongue (morsicatio linguarum), buccal mucosa (morsicatio buccarum), and labial mucosa (morsicatio labiorum). The patient may or may not be aware of the habit, and lesions may arise secondary to parafunctional habits. A higher prevalence has been noted in those under stress or who exhibit psychological conditions.<sup>1</sup> The lesions present as white papules and plaques with irregular ragged surfaces or as loosely adherent keratin shreds. Their diffuse, ill-defined appearance and margins blending with the adjacent mucosa usually make the clinical diagnosis straightforward.<sup>1</sup> The absence of fractured, sharp teeth or restorations, chronic chewing habits, and the lack of poorly-demarcated and blending margins, in this case, argue against frictional keratosis. Additionally, the degree of pain this patient was experiencing would be extremely unusual for frictional keratosis.

Oral lichen planus (OLP) is a chronic inflammatory condition that has an estimated prevalence of 0.5% - 2%.<sup>2</sup> Middle-aged females, between the age of 30 and 60 years, are the most commonly affected. Clinically, the disease can present in six patterns: reticular, papular, atrophic, erosive, and bullous, each exhibiting distinctive features. Many of these patterns occur simultaneously or may have a somewhat different course.<sup>3-4</sup> The keratotic lesions of reticular and plaque-type lichen planus are asymptomatic, whereas the erosive and inflamed lesions of erosive, atrophic, and bullous forms may cause pain and discomfort.<sup>5</sup> The characteristic presentation of reticular lichen planus is that of bilateral, more or less symmetric lesions comprising of interlacing white lines, also known as Wickham striae, that usually affect the buccal mucosa, tongue, and gingiva. In erosive lichen planus, the lesions present as central areas of erythema and ulceration surrounded by radiating white striae. The lesions

tend to wax and wane. On the dorsal tongue, OLP commonly exhibits a plaque-like pattern that resembles keratotic plaques similar to the ones seen in this case. This variant may often be confused with localized leukoplakia or proliferative verrucous leukoplakia if multiple lesions are present.<sup>6,7</sup> However, the absence of additional sites of involvement and the reported soreness rule out this differential.

Oral hairy leukoplakia (OHL) is an Epstein-Barr virus-related lesion that was historically described in severely immunocompromised patients, such as those with AIDS or organ transplant.<sup>8,9</sup> However, an increasing number of cases have been recently reported in immunocompetent individuals.<sup>10</sup> OHL classically presents as a unilateral or bilateral white, patch or plaque with a vertically oriented shaggy or corrugated surface on the lateral border of the tongue. Rare cases affecting other mucosal sites such as the ventral tongue and buccal mucosa have been reported. The lesions do not rub off and are asymptomatic unless there is a superimposed candidal infection.

The white lesions of candidiasis include the pseudomembranous and chronic hyperplastic types. Pseudomembranous candidiasis typically presents as extensive white patches that can be easily removed with gauze. The lesions are usually asymptomatic. Often, the cases seen in the dental setting result from the use of inhaled steroids.<sup>11</sup> Hyperplastic candidiasis, also known as candidal leukoplakia, presents as slightly raised and well-circumscribed white plaques, usually on the buccal mucosa but may also be seen on the tongue.<sup>12</sup> These lesions cannot be wiped off with gentle scraping.

Because of the history of sore white lesions and a shallow ulceration, fungal diseases, such as histoplasmosis and blastomycosis, and bacterial diseases, such as tuberculosis and syphilis, were also considered in the differential diagnosis. Most oral lesions of histoplasmosis and blastomycosis present as a solitary, variably painful ulceration that has firm, rolled borders and may be indistinguishable from a malignant lesion.<sup>13</sup> Some lesions may have irregular erythematous or white intact surface. Oral lesions of tuberculosis most commonly present as isolated, or occasionally multiple, chronic ulcerations or swellings.<sup>14</sup> White plaque-like lesions are not commonly seen with this infection. Syphilis, in its primary stage, presents as a solitary ulceration, known as a chancre, more commonly on the labial mucosa. However, in the secondary or disseminated stage multiple, symptomatic slightly elevated plaques or mucous patches clinically similar to the current case may be seen.

Any well-defined white plaque (leukoplakia) of the oral mucosa, especially in a high-risk location, should be biopsied to rule out oral epithelial dysplasia or malignancy. The prevalence of oral leukoplakia is 1-4% of the population, and the reported malignant transformation rate varies highly among reported studies from 0.13% to 34.0%.<sup>15</sup> Generally, most leukoplakias are asymptomatic, unlike the current case, and are found during a routine examination.<sup>16</sup> Homogeneous lesions are generally demarcated, uniformly flat and thin and have a smooth surface. Non-homogeneous leukoplakia may have diverse clinical presentations and carry a higher risk of malignant transformation<sup>17</sup> that may exhibit higher grades of dysplasia at the time of biopsy. Though

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