

## 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

# Pathology Annual 1993

**Anthony Siew-Yin Leong, Kumarasen  
Cooper, F. Joel W-M. Leong**

## **Pathology Annual 1993:**

Pathology Annual, 1990 Paul Peter Rosen, Robert E. Fechner, 1989-12      **Proceedings** J. Daniel Dolan, Angela Riegel, 1996      General Technical Report NE, 1980      **Leong's Manual of Diagnostic Antibodies for Immunohistology** Runjan Chetty, Kumarasen Cooper, Allen M. Gown, 2016-11-28 A detailed A Z guide and an indispensable source for pathologists ensuring correct application of immunohistochemistry in daily practice      **Stell & Maran's Textbook of Head and Neck Surgery and Oncology** John Watkinson, Ralph Gilbert, 2011-12-30 First written by Philip Stell and Arnold Maran in 1972 Stell Maran's Textbook of Head and Neck Surgery and Oncology has been revised in both content and approach over the years to reflect the enormous progress made in the area Now in its fifth edition the book remains a key textbook for trainees in otolaryngology and head and neck surgery      Manual of Diagnostic Antibodies for Immunohistology Anthony Siew-Yin Leong, Kumarasen Cooper, F. Joel W-M. Leong, 2003 The rapid acceptance of immunohistochemistry as an important and even indispensable adjunct to morphological examination and diagnosis requires the modern anatomical pathology laboratory to be conversant with and proficient in immunostaining procedures as well as methods of tissue processing and antigen retrieval and the underlying characteristics of the increasing number of antibodies and antisera available This fully revised expanded and updated edition provides a comprehensive list of antisera and monoclonal antibodies that have useful diagnostic applications in tissue sections and cell preparations Various clones which are commercially available to detect the same antigen are listed and the sensitivities and specificities of the antibodies are discussed Importantly the authors all pathologists with a wealth of experience in immunostaining procedures provide fully referenced details and expert advice on each reagent with the reader will find invaluable Finally the appendices provide easily accessible and clear summaries of selected antibody panels for specific diagnostic situations details of heat induced antigen epitope retrieval including the use of microwaves and a useful reference to the websites of the main antibody suppliers      **Index of Conference Proceedings** British Library. Document Supply Centre, 2001      **Immunohistology and Electron Microscopy of Anaplastic and Pleomorphic Tumors** Anthony S. Y. Leong, Anthony Siew-Yin Leong, Mark R. Wick, Paul E. Swanson, 1997-09-04 Describes the use of immunohistochemistry and electron microscopy in the diagnosis of undifferentiated tumors      Annual Plan for Fiscal Year ... National Toxicology Program (U.S.), 1991      *Statistical Reference Index*, 1994      *AFIP Letter* Armed Forces Institute of Pathology (U.S.), 1994-02      **"Code of Massachusetts regulations, 1993"**, 1993 Archival snapshot of entire looseleaf Code of Massachusetts Regulations held by the Social Law Library of Massachusetts as of January 2020      **Paths To Homelessness** Doug A Timmer, D. Stanley Eitzen, Kathryn D. Talley, D Stanley Eitzen, 2019-06-04 The major theme in this book is that people are homeless because of structural arrangements and trends that result in extreme impoverishment and a shortage of affordable housing in U S cities It explains the economic and historical causes of homelessness with accounts of individuals and families      **National Toxicology Program Annual Report for Fiscal Year ...** National Toxicology

Program (U.S.),1991      Annual Plant Reviews, Biology of the Plant Cuticle Markus Riederer,Caroline Muller,2008-04-15  
 Annual Plant Reviews Volume 23 A much clearer picture is now emerging of the fine structure of the plant cuticle and its surface the composition of cuticular waxes and the biosynthetic pathways leading to them Studies assessing the impact of UV radiation on plant life have emphasized the role of the cuticle and underlying epidermis as optical filters for solar radiation The field concerned with the diffusive transport of lipophilic organic non electrolytes across the plant cuticle has reached a state of maturity A new paradigm has recently been proposed for the diffusion of polar compounds and water across the cuticle In the context of plant ecophysiology cuticular transpiration can now be placed in the perspective of whole leaf water relations New and unexpected roles have been assigned to the cuticle in plant development and pollen stigma interactions Finally much progress has been made in understanding the cuticle as a specific and extraordinary substrate for the interactions of the plant with microorganisms fungi and insects This volume details the major developments of recent years in this important interdisciplinary area It is directed at researchers and professionals in plant biochemistry plant physiology plant ecology phytopathology and environmental microbiology in both the academic and industrial sectors      **Sudden Death in Infancy, Childhood and Adolescence** Roger W. Byard,2004-01-08 This unique comprehensive survey of virtually all aspects of sudden death in infants and childhood will be an essential source of reference for pathologists clinicians and lawyers who deal with such cases Individual sections deal in detail with deaths due to inflicted and non inflicted injuries and to natural diseases This new edition includes 1200 new references 300 new illustrations and an extensively revised chapter on sudden infant death syndrome The intentional injury chapter has additional material on head trauma the biomechanics of injury neonaticide suicide and subtle and unusual trauma The chapter on non intentional injury has also been expanded to more accurately reflect its importance as a cause of death Deaths in the first week of life are also covered This new edition also covers the full range of natural causes of death and their pathological investigation undertaken in light of advances in our understanding of genetic susceptibility and pathophysiology      *National Library of Medicine Current Catalog* National Library of Medicine (U.S.),1993 First multi year cumulation covers six years 1965 70      *Rice Blast Disease* Robert S. Zeigler,Sally A. Leong,P. S. Teng,International Rice Research Institute,1994 Pathogen biology Cell biology of pathogenesis Signalling systems and gene expression regulating appressorium formation in magnaporthe grisea Genetic regulation of sporulation in the rice blast fungus Genetic interactions in magnaporthe grisea that affect cultivar specific avirulence virulence on rice Genomic structure and variability in pyricularia grisea Molecular genetic approach to the study of cultivar specificity in the rice blast fungus Avirulence genes and mechanisms of genetic instability in the rice blast fungus Host plant resistance International collaboration on breeding for resistance to rice blast Present knowledge of rice resistance genetics and strategies for magnaporthe grisea pathogenicity and avirulence gene analysis Mapping of blast resistance genes in rice Molecular genetic analysis fo the rice bacterial blight resistance locus Xa21 Current status for gene transfer into rice

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