A CONSENSUS REPORT FROM THE FIRST ASIAN REGIONAL MEETING ON THE TERMINOLOGY AND CRITERIA FOR VERRUCO-PAPILARY LESIONS OF THE ORAL CAVITY HELD IN KUALA LUMPUR, MALAYSIA, DECEMBER 15-18, 2013


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Verruco-papillary lesions (VPLs) of the oral cavity described in the literature involve a spectrum of conditions including squamous papilloma, verruca vulgaris, focal epithelial hyperplasia, condyloma, proliferative verrucous leukoplakia and verrucous carcinoma. The majority of the VPLs are slow growing, benign in nature and have a viral aetiology (1). Mucosal HPV types (HPV 6, 11, 13, 30, 32, 45, 52, 55, 59, 69, 72 and 73) have been implicated as possible etiological causes for these benign lesions (2) while virus associated benign mucosal outgrowths are not too difficult to diagnose either clinically or by microscopy. Apart from virus-associated lesions, VPLs harboring malignant potential such as verrucous carcinoma, proliferative verrucous leukoplakia and oral verrucous hyperplasia (OVH) need to be further clarified for better understanding of their predictable biologic behavior and appropriate treatment. In particular, the condition referred to as oral verrucous hyperplasia (OVH) poses a major diagnostic challenge. OVH represents a histopathological entity whose clinical features are not well recognised and is usually clinically indistinguishable from a verrucous carcinoma (3).

In 1980, Shear and Pindborg classified OVHs into two clinical variants, a sharp variety comprising of long, narrow, heavily keratinized verrucous processes which appears white as a result of heavy keratinization and a second variant referred to as the blunt variety consisting of verrucous processes that are broader, flatter and not heavily keratinized (3). A new pathological entity distinct from what Shear and Pindborg earlier described has been found in recent years among betel-quid chewers mainly from Taiwan. In 2005, Chung et al., in a field survey of 1075 adults noted 9 verrucous lesions which they described as exophytic outgrowths, which the authors hinted had hitherto not been reported in the scientific literature (4). Their Figure 1 illustrated this newly described “verrucous lesion”. Subsequently in 2009 Wang et al described a case series of 60 cases from Taipei and classified these lesions as plaque-type and mass-type lesions primarily based on their histopathological features. It was also documented that the mass-type verrucous hyperplasia may manifest as single or multiple verrucous whitish pink lesions clinically while the plaque-type lesions may appear as whitish verrucous plaques. They also concluded that the terminology OVH should be reserved to denote only the mass-type lesions both clinically and histologically and suggested that the plaque-type lesions should be clinically classified as oral verruciform leukoplakia and histologically as verruciform hyperplasia (5).

In an effort to bring uniformity in reporting these lesions both clinically and histopathologically a consensus meeting was held in Kuala Lumpur, Malaysia during December 15-18, 2013. A working committee that included specialists working on oral malignant and
potentially malignant disorders attempted to formulate the clinical and histopathological criteria of OVH based on the discussion among the participants in the meeting. The meeting was attended by 46 participants from 7 countries and included specialists and trainees in the disciplines of Oral Medicine and Oral and Maxillofacial Pathology. Consensus guidelines arising from this meeting is as follows.

CLINICAL CRITERIA FOR VERRUCOUS HYPERPLASIA OF THE ORAL CAVITY:

The working committee proposed the term “Exophytic Verrucous Hyperplasia” to denote the clinical entity that represents the microscopic diagnosis of OVH. The following criteria for the clinical diagnosis of OVH was proposed:

a. These lesions clinically present in two forms: 1) as an exophytic, fleshy verruco-papillary outgrowth with a white and/or pink surface color and 2) as a white, plaque-like exophytic verrucous lesion. The latter may mimic verrucous leukoplakia. In both instances the clinical term ‘exophytic verrucous hyperplasia’ should be used.

b. Exophytic verrucous hyperplasia may occur in any anatomical site in the oral cavity and in general would be more than 1 cm in size.

c. Unlike proliferative verrucous leukoplakia (PVL) exophytic verrucous hyperplasia is a discrete and solitary lesion.

d. Exophytic verrucous hyperplasia may co-exist in a patient presenting with oral submucous fibrosis.

e. The clinical presentation of exophytic verrucous hyperplasia could masquerade as a squamous cell carcinoma or verrucous carcinoma. Absence of induration is a cardinal feature of exophytic verrucous hyperplasia.

HISTOLOGICAL CRITERIA FOR VERRUCOUS HYPERPLASIA OF THE ORAL CAVITY

The working committee proposed the following criteria for the histological diagnosis of oral verrucous hyperplasia:

a. Keratinized exophytic verruco-papillary processes seen. Keratin plugging may be present.

b. Epithelium is hyperplastic with both basal cell hyperplasia and acanthosis.

c. Absence of downward growth of the hyperplastic epithelium into the lamina propria when compared with the level of the basement membrane of the adjacent normal epithelium.

d. Epithelial dysplasia may or may not be present.

e. Subepithelial lymphocytic infiltration as a host response may or may not be present.

f. Verrucous hyperplasia should be clearly differentiated from verrucous carcinoma which exhibits frank downward growth of the epithelial processes below the level of the basement membrane of the adjacent normal epithelium.

g. Verrucous hyperplasia should be differentiated from squamous cell carcinoma by its size and by the presence of a prominent fibrovascular core in the latter.

h. In a small biopsy without adjacent normal mucosal epithelium particular attention should be paid to exclude other pathologies such as squamous cell papilloma and verrucous carcinoma.

CLINICAL CRITERIA FOR VERRUCOUS HYPERPLASIA OF THE ORAL CAVITY:

It was proposed by the working committee that of above, criteria (a), (b) and (c) must be present to make a histopathological diagnosis of OVH. Further it was recommended that the pathology report should include a statement describing the degree of dysplasia if present and a cautionary note to say that OVH may recur following excision and may progress to verrucous carcinoma and squamous cell carcinoma. Therefore careful surveillance is mandatory.

CONCLUSIONS

The terminology and the criteria proposed by the working committee at this consensus meeting will strengthen the understanding of what is already known and will serve to minimize the use of conflicting terminologies that designate OVH. The malignant potential of OVH has been shown in a number of publications (5, 6, 7, 8) . Future studies in South Asia should examine the natural history of this novel disorder and we propose that it should be considered as one of the oral potentially malignant disorders at the next WHO revision of classification and nomenclature of Oral Potentially Malignant disorders (9). We may not succeed in completely eliminating the use of these varied terminologies but a consensus for a universal proposed guidelines and terminologies can be further validated in future case series.

REFERENCES


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