

# EDITÖRE MEKTUP/LETTER TO THE EDITOR

# A simplified working classification for the soft tissue swellings of oral cavity

Oral kavitedeki yumuşak doku şişliklerinin çalışma amaçlı sadeleştirilmiş sınıflandırması

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Dear Editor,

Soft tissue structures of the oral cavity comprise of upper lip, lower lip, buccal mucosa, gingiva, alveolar mucosa, floor of mouth, tongue and soft palate¹. Swellings of these structures are usually ignored by dentists unless patient complains of pain; however these swellings represent a variety of clinical entities, ranging from developmental anomalies to manifestations of different syndrome and malignant neoplasm². There is no approved simple type working classification of soft tissue swellings of oral cavity in the literature. A simple working type classification of soft tissue swellings of oral cavity is proposed here (Table 1).

This classification includes neoplasms, Soft tissue cysts, non neoplastic salivary gland diseases, granulomatous diseases and miscellaneous diseases. Neoplasms include tumors of epithelium origin, mesenchymal origin, salivary gland origin and peripheral variants of odontogenic tumors<sup>3</sup>. Tumors of mesenchyme are further classified into common, relatively rare and rare according to their frequency of occurrence in oral cavity. Cysts of soft tissue can be a result of trapped cells as a result of inclusion error4. These cysts are usually presented as small yellow - white submucosal lesions3. Non neoplastic salivary gland diseases ranging from salivary gland cyst like mucocele to calcified masses like sialolith. Granulomatous diseases are the most commonly encountered immunodeficiencies involving the phagocyte, and are characterized by repeated infections with bacterial and fungal pathogens, as well as the formation of granulomas in tissue<sup>5</sup>. Inside oral cavity these diseases are ranging from Sarcoidosis to tuberculosis and crohn's disease. Miscellaneous diseases comprise of unclassifiable lesions ranging from traumatic swellings to congenital malformations of veins and arteries.

Diagnosis of soft tissue swellings require a proper case history, careful intra oral examination and in some cases biopsy, aspiration cytology and other examinations. Greater coordination of dental clinician and Oral pathologists is required in proper detection and management of these lesions. This classification will be useful for the dental clinicians, oral pathologists and also for the undergraduate and post graduate dental students who deals with the diseases of oral cavity.

# Table 1. Classification of soft tissue swellings of oral cavity

### I. Neoplasm

1. Epithelium origin

Squamous papilloma

Keratoacanthoma

Squamous cell carcinoma

Melanoma

Nevus

2. Mesenchymal origin

#### a) Common

Fibroma

Pyogenic granuloma

Peripheral giant cell granuloma

Peripheral ossifying fibroma

Traumatic neuroma

b) Relatively rare

Lipoma

Yazışma Adresi/Address for Correspondence: Dr. Manas Bajpai, NIMS Dental College, Department of Oral and Maxillofacial Pathology, Jaipur. E-mail: dr.manasbajpai@gmail.com Geliş tarihi/Received: 19.01.2016 Kabul tarihi/Accepted: 22.02.2016 Neurofibroma

Neurilemmoma

Granular cell tumor

Peripheral osteoma

Hemangioma

Leiomyoma

Lymphangioma

Melanotic neuroectodermal tumor of infancy

#### c) Rare

Rhabdomyoma

Rhabdomyosarcoma

Kaposi's sarcoma

Neurofibrosarcoma

Angiosarcoma

Leiomyosarcoma

Liposarcoma

Hemangiopericytoma

Hemangioendothelioma

Synovial sarcoma

Neurothakeoma

## . Salivary gland tumors

Pleomorphic adenoma

Canalicular adenoma

Mucoepidermoid carcinoma

Adenoid cystic carcinoma

Polymorphous low grade adenocarcinoma

#### 4. Peripheral odontogenic tumors

Ameloblastoma

Odontogenic fibroma

Adenomatoid odontogenic tumor

Ameloblastic fibroma

#### II. Cysts of soft tissue

Dermoid cyst

Epidermoid cyst

Nasolabial cyst

Lymphoepithelial cyst

Nasopalatine duct cyst

#### III. Non neoplastic disorders of salivary glands

Mucous retention cyst

Mucous extravasation cyst

Necrotizing sialometaplasia

Mikulicz's disease

Adenomatous hyperplasia of minor salivary glands

#### IV. Granulomatous diseases

Sarcoidosis

Crohn's disease

Tuberculosis

#### V. Syndromes associated with intra oral swellings

Neurofibromatosis I (NF 1)

Tuberous sclerosis

Multiple endocrine neoplasia type 2B

Multiple hamartoma syndrome

#### VI. Miscellaneous

Parulis

Amyloidosis

Multifocal epithelial hyperplasia

Congenital epulis

Metastatic carcinoma

Palatal abscess

Lingual thyroid nodule

Epulis fissuratum

Pericoronitis

Arteriovenous malformations

Oral mucinosis

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