Case Report: Primary Mucosal Melanoma. An Extremely Rare Case in the Private Dental Practice*

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SUMMARY

Mucosal melanoma (synonyms: oral melanoma, oral mucosal melanoma, and oral malignant melanoma) of the head and neck is a very rare and aggressive malignancy with a very poor prognosis [1, 2]. A 56-year-old white gentleman was referred to the private dental clinic with a darkly pigmented lesion on upper alveolar ridge, upper lip mucosa, and hard palate. That paper describes: differential diagnostics, classification of oral melanomas [10, 11] that differs from cutaneous melanomas, tumor-node-metastasis (TNM) staging of the oral mucosal melanoma [1, 2], and treatment options.

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Introduction

Mucosal melanoma (synonyms: oral melanoma, oral mucosal melanoma, and oral malignant melanoma) of the head and neck is a very rare and aggressive malignancy with a very poor prognosis (Breik et al, 2016; Ascierto et al, 2017) [1, 2]. In the maxillofacial area the melanoma can be found in mandible (Cervenka et al, 2017), parotid glands (Pain et al, 1986; Tymofiejew, 2012), nasal mucosa and maxillary sinuses (Maldonado-Mendoza et al, 2015; Breik et al, 2016; Shin and Kim, 2017), etc. [1, 3-7]. Tseng et al (2011) noted that among head neck melanomas the face the is most frequently affected (48.1%) [8]. According to Chidzonga et al (2007), the primary oral mucosal malignant melanoma is representing from 0.2% to 8% of all melanomas [9]. The goal of this paper is to demonstrate clinical features of the POMM that involved upper alveolar ridge, upper lip mucosa, and hard palate.

Case Report

A 56-year-old white gentleman was referred to the private dental clinic with complaints for appearance of intraoral lesion (Fig 1) that had been present for three months and showed an extremely quick growth. Intraoral investigation showed a darkly pigmented lesion on upper alveolar ridge, upper lip mucosa, and hard palate. Similar to report of Magliocca et al (2006) the a patient of our clinic has no family history of melanoma [10]. After precise investigation of the lesion, medical history, and patients` complaints the patient was referred to the Head Neck Oncological Department, where the diagnosis of primary mucosal melanoma was proved after incisional biopsy.

Discussion

Magliocca et al (2006) strongly recommend that differential diagnosis should be made between different types of pigmented intraoral pathology such as [10]:

1) Drug disease or smoking associated melanosis;
2) Kaposi's sarcoma;
3) Oral melanotic macule;
4) Physiologic or racial pigmentation;
5) Melanocytic nevus;
6) Melanoacanthoma.

That case clearly confirms three predilections which were reported in the works of Barker et al (1997), Buchner et al (2004), and Magliocca et al (2006) [11, 12, 10]: 1) Most cases of melanoma occur between the 4th and 7th decades of life, with a mean age at 55–57 years; 2) A male predilection has been reported for oral mucosal melanoma; 3) Oral mucosal melanoma demonstrates...
a predilection for maxillary mucosa, with most cases appearing on keratinizing mucosa of the gingiva and palate. Discussing possibility to use the classification of cutaneous melanomas the 1995 WESTOP Banff Workshop and Magliocca et al (2006) noted that oral melanoma should be classified in different manner and included 4 types [10, 11], which are presented in Table 1.

Bakkal et al (2015) and Breik et al (2016) are clearly demonstrating (Table 2) the American Joint Committee on Cancer TNM (tumor–node–metastasis) staging system [13, 1] that should be used upon treatment of that types of malignancy. Also, Bakkal et al (2015) insist that
combination of radical surgical resection and adjuvant radiotherapy (RT) to be highly effective for local control [13]. The results of study Wushou et al (2015) suggest that post-operative radiotherapy (PORT) improves local-regional control but has no impact on overall status OS in head neck mucosal melanomas patients [14]. Lopez et al (2016) argued that complete surgical resection with clear margins is the mainstay of primary oral melanoma management and may provide the best results, although the therapeutic strategy should be tailored individually according to tumor stage, location, and previous treatments [15]. Despite of all types of treatment, prognosis is still very poor and stay at level of 5-20% (in a 5 year follow-up) from the moment of diagnosis.

Conclusions

All authors insisting that early detection of the melanoma, correct diagnosis according to the stage of that type of aggressive malignancy, and precise treatment can give the patient hope to get into the group of 5-20% of 5-year survival rate [10].

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Confirmation of patient’s permission

Written patient consent was obtained for publishing the clinical photographs.

References


