Case Report

Oral Verrucous Carcinoma Mimicking a Chronic Candidiasis: A Case Report

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Verrucous carcinoma has a special propensity to mimic benign lesions of the oral cavity. A case of the oral verrucous carcinoma in maxillary alveolar ridge, extending to buccal vestibule, cheek, and labial mucosa, which was diagnosed and initially treated as chronic candidiasis, is presented. Clinical, histopathological, and therapeutic considerations related to diagnosis of the verrucous carcinoma in the oral cavity are discussed.

1. Introduction

The verrucous carcinoma, a low-grade variant of squamous cell carcinoma, has been reported in the head and neck area, with predilection by oral cavity and larynx [1–4]. The clinical outcome of verrucous carcinoma often shows a local invasive pattern without any distant metastases and excellent prognosis [5–7].

The establishment of clinical or histopathological diagnosis of verrucous carcinoma in the oral cavity may be difficult to interpret. This difficulty has been attributed to the indolence of this tumor's grow, its benign histologic features, and the lack of awareness by the pathologist of the tumor's gross appearance [1, 4].

We present the case of a patient with oral verrucous carcinoma in maxillary alveolar ridge, which was diagnosed and initially treated as chronic candidiasis. Clinical, histopathological, and therapeutic considerations related to diagnosis of the verrucous carcinoma in the oral cavity are discussed.

2. Report of a Case

A 67-year-old female was referred for evaluation of verrucous white lesion in the oral cavity. There was no history of tobacco or alcohol consumption. According to the patient, the lesion was present for approximately 24 months and it had a slow growing in the last six months. She had been submitted to an incisional biopsy whose diagnosis was of chronic candidiasis. As a result, antifungal therapy (Fluconazol 150 mg/week) was provided during six months without any remission of the lesion.

Clinical examination revealed the presence of a wide verrucous white lesion in the molars region of the maxillary alveolar ridge, extending to buccal vestibule, cheek, and labial mucosa (Figure 1). The submandibular lymph nodes were clinically normal.

Radiographs examination showed no infiltration of the maxillary bone. The differential diagnosis included verrucous leukoplakia, verrucous carcinoma, and squamous cell carcinoma. Then, two incisional biopsies were performed in different areas of the lesion and submitted to histopathological analysis.

Microscopic features showed stratified squamous epithelium with intense hyperplasia, hyperparakeratosis, low atypia degree and formation of keratin pearls (Figure 2). The rete pegs were broad and appeared to “push” into the underlying tissues. Despite exaggerated rete pegs, the associated basement membrane appeared intact. Subjacent
Figure 1: Verrucous white lesion in the right maxillary alveolar ridge, extending to buccal vestibule and cheek.

Figure 2: Histologic section showing stratified squamous epithelium with intense hyperplasia and hyperparakeratosis (hematoxylin and eosin stain, original magnification ×25).

The diagnosis of the verrucous carcinoma may be difficult, requiring, in some cases, several biopsies. This lesion has a special propensity to mimic benign tumors of the oral cavity. The clinical and histopathological differential diagnosis should include pseudoepitheliomatous hyperplasia, well-differentiated squamous cell carcinoma, chronic candidiasis, and condyloma accuminatum. The definitive diagnosis obviously requires concurrence between the clinician’s appreciation of the tumor and the pathologist’s identification of the microscopic criteria described by Ackerman [1, 6]. The histopathological diagnosis of verrucous carcinoma cannot be made if superficial biopsy is performed in the oral lesion. In the present case, the patient had been treated with systemic antifungal drug during six months because the initial diagnosis established was chronic candidiasis. Although oral verrucous carcinomas generally present slow growing, inappropriate therapy can contribute with local spread of the lesion.

The treatment of oral verrucous carcinomas, as in the reported case, consists of surgical excision without the need for lymph nodes dissection, because regional metastasis is rare [3, 4, 6, 9]. The radiotherapy combined with chemotherapy is the next most preferable treatment when surgery is not undertaken [9]. However, it has been reported approximately 30% of anaplastic transformation in verrucous carcinoma after radiation, inducing the occurrence of highly aggressive...
new neoplasm due to disregulation of the cell lines. Another explanation for anaplastic transformation is the possibility of hidden undifferentiated areas in verrucous carcinoma that start their proliferation later [10]. Although the lesion had an excellent prognosis, local recurrences may develop requiring re-excision [11]. Then, the one-year followup, as carried out in the reported case, is recommended.

Finally, it is important to reinforce that appropriate diagnosis of the verrucous carcinoma in the oral cavity can prevent the most extensive involvement of adjacent areas and/or wide surgical resection of the lesion including lymph nodes dissection as recommended for some cases of oral well-differentiated squamous cell carcinoma.

**Conflict of Interests**

The authors have no conflict of interest to declare.

**References**


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