Paraneoplastic Pemphigus: Clinical Case Report and Oral Care Management

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Introduction

Paraneoplastic pemphigus is a rare, autoimmune, vesiculobullous disease that affects patients with neoplasia, usually lymphoma or chronic lymphocytic leukemia [1]. It is a very serious condition and related to high rates of morbidity and mortality. Clinically, it may be similar to pemphigus, pemphigoid, erythema multiforme, Stevens-Johnson syndrome, graft-versus-host disease, or lichen planus [2]. The lesions appear as erosions, spots, papules or blisters, starting by the mucous membranes, often oral mucositis is the first symptom, and after the appearance of skin lesions, mainly in the upper body [3]. The aim of this study is to describe a case of paraneoplastic pemphigus lesions and oral care provided by the dental surgeon.

Case Report

57-year-old male patient, leukoderma, with previous diagnosis of chronic lymphocytic leukemia, in disease progression. He reported the appearance of ulcers in the oral cavity, multiple bleeding skin lesions, severe pain and persistent fever for 15 days, which started after the use of antibiotics. The clinical examination showed involvement of the ocular, oral and urogenital mucosae, body, scalp, back and palms, with crusty, bleeding and coalescent lesions. The dentistry team worked throughout the hospitalization period and oral care.

Conclusion: The diagnosis and care of paraneoplastic pemphigus patients is multidisciplinary. The dentist has a fundamental role in the team, aiming at the patient integral care, providing comfort and a better quality of life.

Keywords: Paraneoplastic pemphigus; Oral lesions; Oral care

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and peri-oral lesions, with 0.12% Chlorhexidine and moisturizing the lips and wounds with Bepantol® (Figure 2 & 3). Sometimes, photo biomodulation (100mW, 780nm, 3J / cm²), in non-bleeding areas, for analgesia and tissue repair was used. After a punching procedure in an abdomen lesion performed by the medical team, the diagnosis of paraneoplastic pemphigus was confirmed.

**Figure 1:** bleeding mucocutaneous lesions.

**Figure 2:** oral cavity after oral hygiene and photo biomodulation therapy.

**Figure 3:** lip hydration with Bepantol®.

### Discussion

Paraneoplastic pemphigus was first identified in 1990 by Anhalt [4]. It is related to malignant or benign neoplasia, which may still be hidden or already diagnosed [1]. In the reported case, the patient had a previous diagnosis of leukemia prior to the manifestation of lesions of the paraneoplastic pemphigus. Hematological neoplasms, including leukemia, are the most related tumors, representing 84%, according to Sehgal and Srivastava [5]. Despite occurring in children, adults from 45 to 70 years are the most commonly affected [1,3]. In this case, the patient was in the most affected age group. Paraneoplastic pemphigus often manifests itself first in the mucous membranes, with erosions, blisters and painful ulcers. In the oral cavity, severe stomatitis is commonly diagnosed. Skin involvement is typically diffuse, and the lesions vary clinically from spots to ulcerations [6,7]. A clinical study of 88 patients, conducted by Ohzono and colleagues, revealed that 93% had oral involvement and 67% had mucocutaneous lesions [8]. In the case described, the patient reported onset of lesions in the oral cavity and that in a few days spread to the skin of the body and arms. The ulcerations presented on mucous membranes were bleeding and extremely painful, which made feeding and oral hygiene difficult. The dentistry team, through the oral care, with photo biomodulation therapy and mucosa hydration, provided symptom relief and oral hygiene with 0.12% chlorhexidine helped in the prevention of secondary infection of the lesions. Immunosuppressant drugs, are often administered to improve mucocutaneous involvement, increase the risk of infectious complications and can lead to sepsis [7].

Thus, as cavity lesions are possible entry for microorganisms, a careful oral hygiene supervised by a dentist is extremely important. This disease treatment remains undefined, but always with the aim of reducing inflammation, suppressing the immune response and providing proper care for the wounds [6]. Paraneoplastic pemphigus is a serious disease, with high rates of morbidity and mortality, therefore, patients require intensive care [3,7].

### Conclusion

The diagnosis and management of paraneoplastic pemphigus is multidisciplinary. The dentist has a fundamental role in the team, aiming at the integral care of the patient, providing comfort and a better quality of life.

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