Paraneoplastic pemphigus: initial manifestation of lung cancer

Guilherme Webster¹, Patrícia Maria Sens Marques², Rui Carlos Ortega Filho³, Antonini de Oliveira e Sousa⁴, Márcio Cavalcante Salmito¹

Keywords: deglutition disorders; dysphonia; pemphigus; skin diseases, vesiculobullous.

INTRODUCTION

The paraneoplastic pemphigus (PNP) is a neoplasia-associated autoimmune disease. It is characterized by a polymorphic mucocutaneous eruption, and its differential diagnoses are: pemphigus vulgaris, multiform erythema, Steven Johnson’s syndrome and lichen planus³.

It was first described in 1990⁴. PNP patients have reactive antibodies to desmoplakin and desmosomal plaque proteins present throughout their entire epithelium; thus, a more extensive involvement is not surprising⁵.

The goal of the present report is to present a case of paraneoplastic pemphigus, which first manifestation were bullous lesions on the mucous of the mouth, larynx and nasal septum.

CASE REPORT

A 68-year-old woman complaining of epistaxis and painful blisters in her mouth for thirty days, associated with dysphagia and weight loss - which she did not measure. She did not complain of skin lesions. She smoked and had blood hypertension, diabetes and dyslipidemia. Upon clinical exam she had ulcerated and bullous lesions on the palate, cheek mucosa (Figure 1) and lower lip, and also an ulceration on her anterior nasal septum.

She also had ulcerated lesions with fibrin in her larynx and bilateral chorditis, seen upon telelaryngoscopy. Thinking about pemphigus vulgaris, she was started on prednisone, 40 mg/day and we biopsied the lesion on her cheek mucosa - which resulted inconclusive upon light microscopy and immunohistochemistry. After partial improvement only, the prednisone dose was increased to 60 mg/day.

She also developed bullous lesions in her genital and periungual areas, and at this point a new biopsy was carried out and we ordered a test with restrictive abnormalities. Chest CT scan with subpleural septal thickening - which was suspected because of the lymphangitis on the lingula, lower left lobe, as well as the middle lobe and mediastinum and left subpleuvalcular nodal enlargements. The digestive track endoscopy showed esophagus atrophy and anachematosus gastritis.

Maintaining treatment, she enjoyed an improvement only, the prednisone dose was reduced to 40 mg/day. She also developed bullous lesions on the left cheek mucosa, besides snoring and pulmonary sibilance. She was admitted to the hospital and a pleural biopsy was carried out, which showed a carcinoma not well-differentiated (not the small-cell type) and, in a later biopsy of a level III neck lymph node on the right side, we defined a moderately differentiated adenocarcinoma (pulmonary metastasis).

She developed respiratory failure and was admitted to the ICU. She died on the fourth month of the disease.

Figure 1. Onoscopy - Bullous and ulcerated lesions on the cheek mucosa and palate.

DISCUSSION

Typical PNP clinical findings include untreated stomatitis (more typical) and polymorphic skin lesions. Mucosal involvement is almost always present, ocular, oral, pharyngeal, laryngeal and/ or vulvar lesions⁶.

PNP histological findings include keratinocyte necrosis, intraepidermal acantholysis and vacuolar dermatitis on the interface. The immunofluorescence shows an IgG and complement deposits on the cell surface and, frequently, granular or linear complement deposits on the dermis-epidermis junction. The indirect immunofluorescence shows circulating antibodies attached to the simple, columnar or transition epithelium, besides a typical pemphigus pattern. These autoantibodies suffer immunoprecipitation in a protein complex. This is the PNP diagnosis gold standard⁷.

Although this case did not have definitive laboratorial confirmation, the immunofluorescence showed a granular, intercellular, intraepithelial deposit, predominating in the lower layers of the epithelium - which is reported in the literature as a PNP characteristic.

FINAL REMARKS

The clinical presentation of the bullous lesions may be similar. This case was typical of paraneoplastic pemphigus without definitive laboratorial confirmation.

Thus, the importance of the proper diagnosis for the better treatment of this rare entity.

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