CASE REPORT

Paraneoplastic pemphigus: initial manifestation of lung cancer

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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 planus. It was first described in 1990. PNP patients have reactive antibodies to desmoplakin and desmosomal plaque proteins present throughout their entire epithelium; thus, a more extensive involvement is not surprising.

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

CASE REPORT

A 68-year-old woman complaining of epistaxis and painful bullous lesions 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 chordeids, seen upon telaryngoscopy. Thinking about pemphigus vulgaris, she was started on prednisone, 40 mg/day and we biopsied the lesion on her cheek mucosa - which resulted inactive 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 perinatal areas, and at this point a new biopsy was carried out and we ordered a test for neoplasia, considering the possibility of paraneoplastic pemphigus: lung function 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 supraclavicular nodal enlargements. The digestive track endoscopy showed esophagus acanthosis and enanthermatous gastritis.

Maintaining treatment, she enjoyed an important improvement in pain and no new lesions. After two-and-a-half months, she had only a small lesion on the left cheek mucosa. The results from the microscopy and immunohistochemistry suggested pemphigus vulgaris, and the direct immunofluorescence showed mild intercellular and intraepithelial granulosis fluorescence, predominating in lower layers of the epithelium. The prednisone dose was then reduce to 40 mg/day. She was worse on the third month of the disease, with enlargement of her neck volume and dyspnea, with new bullous lesions in her cheek mucosa, besides snoring and pulmonary sibilance.

She was admitted to the hospital and a pleural biopsy was carried out, which showed a granular, intercellular, intraepithelial fluorescence shows circulating antibodies attached to the simple, columnar or transition epithelium, besides a typical pemphigus pattern. These auto-antibodies suffer immunoprecipitation in a protein complex. This is the PNP diagnosis gold standard.

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.

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

DISCUSSION

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.

REFERENCES