**Case Report**

**Multiple Autoimmune Syndrome with Vitiligo, Autoimmune Thrombocytopenia and Autoimmune Dermoepidermal Bullous Dermatosis**

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**Abstract**

Multiple auto-immune syndrome is defined by the coexistence of at least three different autoimmune diseases. Immune genetic predisposition and abnormalities of humeral and cell-mediated immunity seems to be implicated in their genesis.

In this observation, we describe a combination of three autoimmune diseases in the same patient namely vitiligo evolving since childhood, autoimmune dermo epidermal bullous dermatosis and autoimmune thrombocytopenia. The discovery of such associations may limit the therapeutic arsenal. And temporal sequence indicates that long-term surveillance of these patients is necessary to watch the occurrence of another autoimmune disease.

According to the clinical context and the results of immune histology we retained in our patient the combination of three autoimmune diseases: vitiligo, autoimmune thrombocytopenia with autoimmune bullous derma epidermis dermatitis most probably cicatricle pemphigoid. Epidermolysis bullosa acquisita that looks like cicatricle pemphigoid cannot be ruled out given the lack of examination by immune-microscopy.

The patient was initially put on oral corticosteroids at a dose of 1mg / kg / day until normalization of platelet levels. Then treatment with daps one at a dose of 2 mg / kg / day associated with mycofenolate mofetil at a rate of 2g / day was initiated with a clinical and laboratory monitoring. The evolution was marked by the stabilization of the disease and a slight improvement in ocular involvement.

**Discussion**

We report a unique case characterized by the association of vitiligo, an autoimmune thrombocytopenia and autoimmune dermo epidermal bullous dermatosis in a male patient. It is still uncommon.
Multiple autoimmune syndrome is a condition in which patients have at least three distinct autoimmune diseases [1], often with at least one dermatological condition, usually vitiligo or alopecia areata. Indeed in many cases of multiple autoimmune syndromes reported in the medical literature, vitiligo is the first autoimmune disease to be diagnosed. In these cases, the vitiligo is usually bilateral and symmetrical, which is illustrated by our observation. Autoimmune thyroid disease was also present in the multiple autoimmune syndrome including vitiligo [1]. It is not the case of our patient or may be not yet. In a predisposed person real cascade of autoimmune diseases may extend over several years (17 years in our case) and must therefore be watched to intervene on time. Other combinations are possible so we asked routinely laboratory tests to look for other most frequent associations which are anemia, diabetes, and systemic lupus. Other autoimmune related diseases are described in the literature as alopecia, inflammatory colitis, Myasthenia, Sjogren’s syndrome, scleroderma, rheumatoid arthritis, psoriasis and pemphigus [2,3].

For autoimmune thrombocytopenia, its association with autoimmune derma epidermal bullous dermatitis has been reported in patients with bullous pemphigoid but has never been described with a cicatricel pemphigoid [4] or epidermolysis bullosa acquisita.

The presence of auto-immune disorders associated with cicatrical pemphigoid is increased compared to the risk of the general population. A study on a group of 34 patients with cicatricial pemphigoid showed that thirty-two percent of patients had autoimmune disease against 7% in the control population (p less than 0.002) [5,6]. Another study by Foster on a series of 130 patients followed for cicatrical pemphigoid noted the presence of autoimmune diseases associated in 17.7%, which is significantly higher compared to the 4% risk observed in the general population [5]. Associations reported in this context are lupus [7], rheumatoid arthritis [8], or mixed connectivitis [9,10].

For the epidermolysis bullosa acquisita, it has been reported in association especially with inflammatory colitis [11] with a few cases of association with multiple myeloma [12], psoriasis, rheumatoid arthritis, Hashimoto’s thyroiditis and diabetes [13].

Autoimmune diseases involve genetic and environmental factors [14]. Concerning the genetic factor, the clinical observation of familial cases suggests that there are genes that predispose to such diseases, on the other hand once triggered the autoimmune disease amplifies via a cellular destruction mechanism that induce release of new auto antigens that were previously protected by a cytoplasmic or nuclear membrane, and have not been in contact with cells of the immune system. The immune system will then elicit immune responses against these «unknown» auto antigens [15,16].

Conclusion

The presence of autoimmune disease increases the risk of developing other autoimmune diseases indicating the need of monitoring of these patients.

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