SKIN MANIFESTATIONS OF INTERNAL DISEASE

POLYMORPHIC HISTIOCYTOID SWEET'S SYNDROME AS A PARANEOPLASTIC MANIFESTATION IN A PATIENT WITH REFRACTORY ACUTE MYELOID LEUKEMIA

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Background: Sweet's syndrome is an acute inflammatory condition that can occur alone, in association with malignancies or as a drug reaction. It is typically a neutrophilic dermatosis.

Observation: A 50-year old female with diagnosis of myelodysplastic syndrome was initially treated with azaciticine followed by a haploidentical hematopoietic stem cell transplantation (HSCT). She was kept on donor leukocyte infusion + azacitidine for 1,5 years but had a relapse and was submitted to a second haploidentical HSCT. She subsequently developed acute cutaneous, mucosal and gastrointestinal graft-versus-host disease, and was treated with tacrolimus, ruxolitinib and systemic corticosteroids. Nonetheless, she relapsed with an acute myeloid leukemia after the second HSCT. Rescue chemotherapy with decitabine was then introduced. She was admitted to the hospital with perianal pain, and after imaging studies a diverticulitis was diagnosed. Treatment with piperacylline-tazobactam was started. Concomitantly, 2 diverse skin lesions were observed, and a dermatological consultation was requested. Upon dermatological examination, she presented a large erythematous infiltrated cellulitis-like area on the right axillary region, and a violaceous plaque on her left knee. A skin biopsy was performed of the cellulitis-like area, for histopathological examination and cultures, to rule out a fungal or mycobacterial infection, or leukemic infiltration of the skin. The histopathological examination revealed a chronic histiocytic dermatitis, without evidence of fungal or mycobacterial infection. The possibility of a histiocytoid Sweet's syndrome was suspected, and a skin biopsy of the lesion on the left knee was then performed. The second biopsy confirmed a histiocytic dermal reaction, compatible with histiocytoid Sweet's syndrome.

Key Message: Histiocytoid Sweet's syndrome is a rare cutaneous manifestation. Few cases have been reported, mostly in association with underlying malignancies. We report a case of histiocytoid Sweet's syndrome with polymorphous cutaneous presentation, that

underscores the need for proper management of skin conditions in patients with hematological malignancies.