

INFLAMMATORY SKIN DISEASES (OTHER THAN ATOPIC DERMATITIS & PSORIASIS)

## SWEET-LIKE REACTION DUE TO DONKEY BITE: ANECDOTAL CASE REPORT

*S Sialiti<sup>(1)</sup> - A Abdelmouttalib<sup>(1)</sup> - B Hassam<sup>(1)</sup>*

*Ibn Sina Hospital, Department Of Dermatology-venereology, Ibn Sina University Hospital,  
Rabat, Morocco<sup>(1)</sup>*

Background: Sweet syndrome is an acute febrile neutrophilic dermatosis. An anecdotal never-described entity is reported here, about a sweet syndrome due to donkey bite.

Observation: A 47-year-old woman with no medical history presented with painful nodules and plaques over her neck, forarms and hands for 2 days. She reported about a donkey bite on her right forarm 5 days before. Examination showed nodules sized form 3x2cm to 4x6cm and infiltrated plaques with an erythematous color. Otherwise, the patient had fever (39.5°), joint pain but no weakness. White blood cell count was normal with no neutrophilia and C reactive protein was elevated. Biopsy showed a polymorphonucleocytes dense infiltrates in the dermis. The patient was given a 7-day treatment with 70mg of oral prednisone daily (1mg/kg) that resulted in fever resolution and improvement of lesions.

Key Message: Sweet's syndrome was first described in 1964 by Robert Douglas Sweet as an erythematous skin eruption infiltrated by neutrophils, accompanied with acute onset of fever and leukocytosis. To the best of our knowledge, two cases due to arthropod bite were reported, but no one due to donkey bite, which is an anecdotal one. Regarding pathogenesis of donkey bite reactions, animal saliva antigens are thought to react with specific immunoglobulin (IgE), leading to local eosinophil recruitment.

Clinical manifestations are the same whatever the etiology is. Histological finding show intense neutrophilic dermal infiltrate. In a bite reaction, the inflammatory infiltrate may be rich in neutrophils, a pattern that has not been well documented in the context of probable donkey bites in the literature. Systemic corticosteroids are the "gold standard". Symptoms improve after treatment has been started. In our case, symptoms resolved partially after 1 week, which led to the hypothesis of a sweet-like reaction, due to donkey bite and not a Sweet Syndrome itself.