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Neutrophilic Dermatosis on Postmastectomy Lymphedema[☆]

Dermatosis neutrofílica sobre área de linfedema posmastectomía

To the Editor:

Classic or idiopathic Sweet syndrome is a neutrophilic skin disorder characterized by the association of cutaneous manifestations and systemic symptoms. The skin lesions tend to occur on the face, neck, chest, and arms, and present as painful papules, nodules, or erythematous plaques. Systemic symptoms, such as general malaise, joint pain, and neutrophilic leukocytosis, may appear days earlier or at the same time as the dermatosis. Classic or idiopathic Sweet syndrome has been linked to digestive and upper airway infections, inflammatory bowel disease, and pregnancy. More rarely, it is induced by drugs (most often granulocytecolony stimulating factor) or associated with a malignant disease (most commonly hematologic malignancies). The atypical variant that arises on lymphedema is considered to be a less severe form.

Our patient was a 60-year-old woman who had been diagnosed 6 years previously with invasive ductal carcinoma of the right breast. She underwent conservative surgery with axillary dissection and received radiation therapy and chemotherapy as adjuvant treatment. At the time of consultation, the patient was receiving treatment with capecitabine for liver metastases. Two days earlier, she had developed multiple erythematous maculopapular lesions on the inner aspect of the right upper arm and forearm; the entire arm was edematous and the lesions were very painful to the touch (Fig. 1A). Some days before the onset of the cutaneous symptoms, the patient had experienced general malaise, a sensation of poor temperature regulation, and shivers. The only blood test results of interest were elevated C-reactive protein levels (99.6 mg/L), and no abnormalities were found in the complete blood count (leukocytes, 7590/mm³ [neutrophils, 69.9%]). A skin biopsy revealed a dense, neutrophilic inflammatory infiltrate in the dermis, which was predominantly perivascular and interstitial; the epidermis was normal (Fig. 2). After treatment with amoxicillin-clavulanic acid was initiated, the skin lesions resolved completely in less than a week (Fig. 1B).

Neutrophilic dermatosis on the site of postmastectomy lymphedema is considered to be an atypical or localized variant of classic or idiopathic Sweet syndrome and only 12 cases have been reported to date (Table 1). The disorder has been reported in women aged between 39 and 75 years who have undergone surgery for breast cancer. axillary dissection, and other adjuvant treatments (radiation therapy, hormone therapy, and chemotherapy), and who have developed lymphedema in the ipsilateral arm as a result of those treatments. The interval between breast surgery and appearance of the Sweet skin lesions ranges from a few months to a number of years. Clinically, the disease manifests as multiple painful erythematous papules, which may coalesce to form plaques. The lesions appear on the edematous area, which in most cases comprises the upper arm, forearm, and dorsum of the hand. Less often, the lesions take the form of vesicles or blisters; hemorrhagic blisters or pustules have not been reported. The condition has not been linked to local relapse or dis-

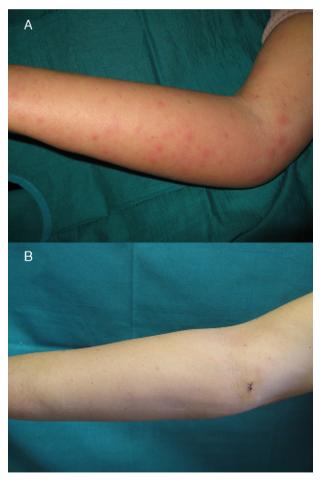


Figure 1 A) Lymphedema and erythematous maculopapular lesions on the inner aspect of the right arm. B) Right arm free of lesions a week after start of treatment.

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 Table 1
 Reported Cases of Sweet Syndrome Located on the Site of Postmastectomy Lymphedema.

Authors	Patient Age and Treatments	Time Elapsed Between Mastectomy and Skin Lesions	Cutaneous Clinical Presentation	Systemic Symptoms	Treatment
Demitsu et al. (1991) ⁴	39 y Radical mastectomy	18 mo	Erythematous papules and plaques on the upper arm, forearm, and hand	No Leukocyte count, 7500/mm ³ (53% neutrophils)	Potassium iodide (900 mg/d) Resolution in 3 wk
	71 y Radical mastectomy	8 y	Erythematous plaques on the upper arm and forearm	No Leukocyte count, 6200/mm ³ (70% neutrophils)	Potassium iodide (900 mg/d) Resolution in 3 wk
Petit et al. (1996) ³	48 y Mastectomy, RT, CT, HT	Not mentioned 3 d after G-CSF	Erythematous plaques on the arm	No Leukocyte count, 7100/mm ³ (4800 neutrophils)	Suspension of G-CSF
García-Río et al. (2006) ²	67 y Radical mastectomy, RT, CT, tamoxifen	132 mo	Erythematous plaques with vesicles on the back, upper arm, forearm, and abdomen	Not mentioned Leukocyte count, 10 600/mm³ (53% neutrophils)	Prednisone and cefuroxime Resolution in 20 d
	50 y Lumpectomy, RT, tamoxifen	4 mo	Erythematous plaques on the upper arm, forearm, and chest	Not mentioned Leukocyte count, 10 000/mm³ (83% neutrophils)	No treatment Resolution in 2 mo
	61 y Mastectomy, tamoxifen	27 mo	Erythematous plaques on the back, axilla, upper arm, and forearm	Not mentioned Leukocyte count, 6300/mm ³ (64.8% neutrophils)	Prednisone Resolution in 10 d
	65 y Lumpectomy, RT, tamoxifen	3 mo	Erythematous plaques on the back, upper arm, and forearm	Not mentioned	No treatment Resolution in 2-3 mo
	63 y Lumpectomy, RT, CT, tamoxifen	168 mo	Erythematous plaques on the back, upper arm, and forearm	Not mentioned Leukocyte count, 2036/mm ³ (83.6% neutrophils)	Imipenem Resolution in 4-5 d
	55 y Lumpectomy, RT, CT, tamoxifen	34 mo	Erythematous plaques on the back, upper arm, and chest	Fever Leukocyte count, 6070/mm ³ (54.6% neutrophils)	No treatment Resolution in 4-5 d
	60 y Lumpectomy, RT, CT	132 mo	Erythematous plaques on the upper arm and forearm	Not mentioned Leukocyte count, 12 660/mm ³ (91.2% neutrophils)	Amoxicillin-clavulanic acid Resolution in 10 d
Lucas et al. (2008) ⁶	75 y Mastectomy, RT, CT, tamoxifen	More than 5 y	Erythematous papules on the upper arm, forearm, and hand	No Not mentioned	Paracetamol Resolution in 7 d
Lee et al. (2009) ⁵	60 y Mastectomy, RT, CT, HT	7 mo	Erythematous papules with vesicles on the upper arm, forearm, and hand	No Leukocyte count, 4070/mm ³ (73.3% neutrophils)	Oral naproxen and topical clobetasol propionate Resolution in 7 d

Abbreviations: CT indicates chemotherapy; G-CSF, granulocyte-colony stimulating factor; HT, hormone therapy; RT, Radiation Therapy.

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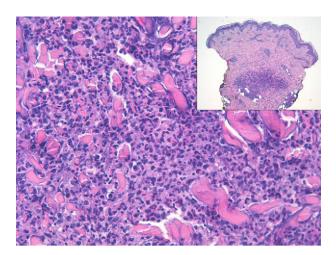


Figure 2 Predominantly perivascular and interstitial inflammatory dermal neutrophilic infiltrate.

tant metastases of the breast cancer, except in 1 case where it was described in association with skin metastases²; only 1 case has been reported in a patients receiving granulocyte-colony stimulating factor.^{2,3} Compared to classic Sweet syndrome, the systemic symptoms are mild (in some cases absent), neutrophilic leukocytosis is less common, and relapses are less prevalent. The other distinctive difference is that the lesions are restricted to the site of the lymphedema. Treatment with antibiotics appears to cure the lesions more rapidly than treatment with systemic corticosteroids or potassium iodide,⁴ and the disorder also responds well to oral anti-inflammatory drugs and high-potency topical corticosteroids.²⁻⁶

The pathophysiology of this condition is not understood and a number of theories have been put forward, all of which posit a local disruption in cell trafficking due to inadequate lymphatic drainage caused by the lymphadenectomy and the radiation therapy. The hypothesis is that cytokines accumulate at the site of the lymphadenectomy attracting neutrophils to an area with reduced immunocompetence and thereby favoring local development of malignancies, infections, and immune disorders such as neutrophilic dermatosis.^{2,7}

The differential diagnosis should include infections such as cellulitis, erysipelas, folliculitis, and herpes zoster, as well as thrombophlebitis and recall phenomenon. Histology should rule out chronic radiodermatitis, carcinoma

erysipeloides, and contact dermatitis. The clinical course, biopsy findings, and additional tests will all help to establish the definitive diagnosis.^{2,6}

In conclusion, we report a new case of neutrophilic dermatosis on the site of a lymphedema. This condition is a localized variant of classic Sweet syndrome with differences that include not only the location of the lesions but also a milder course with fewer systemic symptoms, fewer relapses, and a good response to oral antibiotics, anti-inflammatory drugs, and topical corticosteroids. Despite the large number of cases of breast cancer and of lymphedema arising as a complication of the different treatments used in these patients, few cases of neutrophilic dermatosis have been documented. This is probably due to confusion with other inflammatory or infectious diseases that are more common in this group of patients.²

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Precalcaneal Congenital Fibrolipomatous Hamartoma[☆]

Hamartoma fibrolipomatoso precalcáneo congénito

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To the Editor:

Precalcaneal congenital fibrolipomatous hamartoma (PCFH) is a rare and benign childhood skin disorder, with only a few cases reported in the literature. It has been referred to by a variety of names, including pedal papules in the newborn, congenital piezogenic-like papules, and bilateral congenital adipose plantar nodules.

We present the case of a 9-month-old girl, with no relevant personal or family history, whose family brought her to consultation for the presence of symmetric subcutaneous