Cutaneous lymphangioma circumscriptum after mastectomy for breast cancer

Anissa Zaouak¹, Wafa Koubaa², Houda Hammami³, Samy Fenniche⁴

¹Dermatology Department, Habib Thameur Hospital, Tunis, Tunisia. ²Anatomopathology Department, Habib Thameur Hospital, Tunis, Tunisia

Corresponding author: Dr. Anissa Zaouak, E-mail: anissa_zouak@yahoo.fr

Sir,

Lymphangioma circumscriptum (LC) is a superficial cutaneous cystic malformation secondary to abnormalities of lymphatic development [1]. LC is a rare benign tumor, and so are cutaneous lymphangiomas, accounting for 4% of all vascular tumors [1]. LC is usually congenital but may appear later. Acquired LC is reported to occur from trauma, as from surgery, radiotherapy, or the combination thereof [2]. Herein, we report a case of cutaneous lymphangioma complicating the radiosurgical treatment of breast cancer. A 42-year-old female, with a history of vitiligo persistent for ten years prior, was diagnosed with carcinoma of the left breast in 2017. She underwent a mastectomy of the left breast with axillary lymph node clearance followed by chemotherapy and radiotherapy. The patient presented herself to our department of dermatology with multiple vesicles on the left axillary fold evolving for the last two months. A dermatological examination revealed multiple small skin-colored vesicles, either isolated or confluent. Dermoscopy is useful for diagnosis of CL, showing multicolored—white, yellow, brown, orange—lacunae in addition to vascular structures [3]. Histology confirms the diagnosis suspected clinically and dermoscopically, showing lymphatic ducts in the papillary dermis with thin walls and sometimes with erythrocytes in the lumens of lymphatic vessels [4]. Although dermoscopy is a tool for the rapid diagnosis of CLC, histology remains the gold standard for the definitive [5]. The differential diagnosis of CL may include herpes zoster, hemangiomas, angiokeratomas, viral warts, molluscum contagiosum, and epidermal nevi [1,2]. Surgical excision, as performed in our patient, is the preferred approach producing low rates of recurrence [1,4]. Other treatment options may include cryosurgery, electrodeexcision, ablative CO2 laser therapy, and radiotherapy. Because a recurrence may develop after treatment, close follow-ups are recommended. Lymphangiomas may be localized or generalized, and may be congenital or acquired, as in our case [1].

In fact, the CLC in our patient appeared after radiotherapy for breast cancer. Radiotherapy can lead to tissue complications. Lesions caused by radiotherapy occur mainly at the junction of the reticular dermis and adipose tissue, resulting in fibrosis, lymphatic obstruction, increased local pressure, and, consequently, lymphatic fluid accumulation. Clinically,
due to saccular dilatation of the superficial lymphatic channels, lesions may vary from vesicles to reddish nodules [2].

In summary, CLC is a rare benign cutaneous neoplasm, and clinicians should be aware of the probability of its appearance after radiotherapy for breast cancer.

ACKNOWLEDGEMENTS

We would like to thank the patient.

Consent

The examination of the patient was conducted according to the principles of the Declaration of Helsinki.

The authors certify that they have obtained all appropriate patient consent forms, in which the patients gave their consent for images and other clinical information to be included in the journal. The patients understand that their names and initials will not be published and due effort will be made to conceal their identity, but that anonymity cannot be guaranteed.

REFERENCES