



SKIN CANCER (OTHER THAN MELANOMA)

## **DARIER FERRAND DERMATOFIBROSARCOMA PROTUBERANS ON BURN SCAR: ABOUT A CASE**

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**Background:** Darier Ferrand dermatofibrosarcoma protuberans (DFDP) is a slow-growing mesenchymatous tumour of the skin with high local malignancy and great opportunity of recurrence. Its occurrence after local trauma or burn remains rare hence the interest of our case report.

**Observation:** We report a case of a 45-year-old woman, with no significant past medical history except a burn of the right shoulder 2 years ago. She consulted for the appearance of a painful lesion on the burn scar 1 year ago. Clinical examination showed a 3 cm reddish nodule, situated on the anterior side of the right shoulder, firm in consistency and with no evidence of lymph node enlargement. Histopathological examination revealed a fibrohistiocytic tumor located in the dermis, with spindle cells in a storiform pattern and positive reaction to CD34. Based on the clinical and histopathological findings, a diagnosis of DFDP was made and a surgical excision with 5 cm margins was performed. No recurrence was observed during 3-months follow-up.

**Key message:** DFDP is a cutaneous mesenchymatous tumor of intermediate malignancy. It is a rare but not exceptional tumor and is the most common of cutaneous sarcomas. It often affects patients in their 3rd and 4th decades with a slight male predominance. Clinically, it presents as a firm reddish plaque or nodule generally on the trunk and proximal limbs. Histopathology confirms the diagnosis. DFDP is characterized by a slow growth, good prognosis after large and complete resection, very high risk of local recurrence, but low metastatic potential. The majority of cases appear spontaneously. Some authors have mentioned the occurrence of DFDP after local trauma, as in our case, but it remains rare representing 10 to 20% of cases. Clinicians need to be more aware and consider DFDP in the differential diagnosis of a lesion occurring on trauma and burn scar.

