- Dermoscopic features.
- Photographs of the lesions prior to the surgical excision of suspicious skin lesions (essential).

In conclusion, the objective of this article has been to present the guideline used in our center for the initial clinical evaluation of nevi or suspected melanoma in the hope that it will help dermatologists evaluating patients with such lesions. Finally, it is essential that we undertake patient education regarding periodic self-examination, the clinical characteristics of melanoma (ABCDE rule and ugly duckling sign), and appropriate measures of photoprotection. 1,3,10

References


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Bednar Tumor (Pigmented Dermatofibrosarcoma Protuberans)\(^{c,d}\)

Tumor de Bednar (dermatofibrosarcoma protuberans pigmentado)

To the Editor:

Dermatofibrosarcoma protuberans (DFSP) is a dermal connec-tive tissue tumor with low malignancy due to its slow growth and locally aggressive nature. It can be classified into several variants according to morphologic features, although there are no major differences in terms of prognosis. The pigmented variant of DFSP, also known as Bednar tumor,\(^1,2\) is rare and is characterized by the presence of fibroblasts interlaced with melanin-containing dendritic cells. As with other variants of DFSP, fibrosarcomatous changes may occur; these are characterized by CD34 negativity, scarce melanin pigmentation, and increased cell proliferation and pleomorphism.\(^3,4\) This transformation tends to occur in recurrent DFSP and is associated with poor prognosis and an increased risk of metastasis, although the real risk is low.

The identification of the translocation t(17;22)(q22;q13) and the detection of the COL1A1-PDGFB fusion protein in DFSP led to the synthesis of tyrosine kinase inhibitors, such as imatinib as an alternative treatment for unrectable locally advanced disease or metastatic disease\(^5\) and sunitinib for nonresponders to imatinib.\(^6\)

We report the case of a 93-year-old man with a pigmented stain, part of which contained a firm nodular lesion of 1.5 cm, located in the left preauricular region (Fig. 1). On observing that the lesion had grown, and based on a clinical suspicion of melanoma on lentigo maligna, the decision was taken to completely excise it. The histopathologic study showed focal atrophy of the epidermis, without ulceration, and a dense proliferation of monomorphic spindle cells with variable pleomorphism throughout the dermis and extending into the subcutaneous tissue (Fig. 2). The spindle cells presented areas with a histiocytic/xanthomatous appearance, abundant melanic pigmentation, and isolated mitotic figures (Fig. 3A). In the immunohistochemical study, the tumor cells showed diffuse positive staining for vimentin, focal staining for CD34 and CD68, and negative staining for
pan cytokeratin, actin, desmin, S100 protein, Melan-A, and HMB-45. Positive staining for S100 protein, corresponding to the dendritic cell component, was also observed in dispersed cells (Fig. 3B). Based on the above results, a diagnosis of pigmented DFSP (Bednar tumor) was established.

Pigmented DFSP was described in 1957 by Bednar under the name of storiform neurofibroma, but it is currently considered to be a pigmented variant of DFSP with distinctive dendritic cells and melanin pigmentation. Its histogenesis is unclear, and it remains to be elucidated whether it is derived from an undifferentiated mesenchymal cell with the capacity to differentiate itself into a fibroblast or a histiocyte or whether, considering the presence of dendritic cells, it has a neuroectodermal origin. On occasions, onset seems to be associated with local trauma such as burns, vaccine scars, or insect bites. The differential diagnosis includes pigmented neurofibroma, cutaneous leiomyosarcoma, spindle cell squamous cell carcinoma, spindle cell melanoma, and atypical fibroxanthoma, among others. Immunohistochemistry and special techniques are essential for differentiating between these entities. The first step is to distinguish between pigmented dendritic cells (which appear brown under typical hematoxylin-eosin staining) and hemosiderin-containing macrophages. Perl's stain stains the iron present in blood blue, permitting the identification of hemosiderin secondary to old bleeding. Once hemosiderin-containing macrophages have been ruled out, spindle cell proliferations with dispersed pigmented cells must be investigated by immunohistochemistry. Diffuse expression of vimentin and focal positivity for S100 protein are consistent with pigmented neurofibroma; positive staining for actin and desmin indicate a possible diagnosis of leiomyosarcoma; cytokeratin positivity suggests squamous cell carcinoma; and the expression of S100, Melan-A, and HMB-45 would indicate a possible diagnosis of melanoma. Atypical fibroxanthoma is
contemplated when negative results are obtained for the above markers and the other entities in the differential diagnosis have been ruled out, although this tumor typically presents xanthomatous cells with vesicular nuclei and it may express CD10. When Bednar tumor is diagnosed, it is important to remember that these tumors are locally aggressive and invasive and tend to recur locally, but metastasis is rare and delayed. In conclusion, histopathology combined with immunohistochemistry or molecular biology is essential for the correct diagnosis and treatment of Bednar tumor.

Conflicts of Interest

The authors declare that they have no conflicts of interest.

References


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Localized Lipoatrophy in a Boy After an Intramuscular Injection of Penicillin

Lipoatropia localizada en un niño tras administración de penicilina intramuscular

To the Editor:

Localized lipoatrophy is characterized by the loss of subcutaneous fat in a particular area of the body. In children, the condition is mainly related to subcutaneous or intramuscular injections of drugs or vaccines. Localized lipoatrophy is usually diagnosed clinically, although histopathologic examination can be necessary in some cases to rule out other causes such as connective tissue diseases and neoplasms.

We present the case of a healthy 8-year-old boy who was referred to our dermatology department for assessment of an asymptomatic lesion on his left thigh that had appeared 4 years earlier. A few weeks before the lesion appeared, the patient was diagnosed with streptococcal pharyngomygdalitis and received treatment with an intramuscular injection of benzathine penicillin (600 000 IU) on the lateral aspect of the left thigh. The lesion grew in proportion to the boy as he grew taller and gained weight. The boy had no personal or family history of autoimmune disease or history of trauma at the site of the lesion.

Physical examination revealed a 9 × 7 cm depressed plaque of similar color to the adjacent skin on the anterolateral aspect of the left thigh. The lesion was covered with normal skin (Fig. 1). No similar lesions were detected at other sites. No loss of strength or sensitivity was observed in the lower left limb.

Blood tests were carried out, including complete blood count, kidney and liver function, cholesterol, triglycerides, lipase, complement, rheumatoid factor, antistreptolysin O, and antinuclear antibodies. No significant abnormalities were found. The patient tested negative for Borrelia burgdorferi.

Ultrasound examination of the lesion revealed a complete loss of subcutaneous tissue alongside adjacent healthy skin. No muscular abnormalities were observed (Fig. 2). The parents declined to allow a biopsy of the lesion.

Treatment with medium-strength topical corticosteroids and topical calcineurin inhibitors was started. No improvement was seen after 2 months of treatment. The lesion has remained stable for 2 years of follow-up and no similar lesions have appeared at other sites.

Localized lipoatrophy can be classified as primary (or idiopathic) or as secondary to minor repetitive trauma injuries, injections of various drugs (penicillin, amikacin, methotrexate, corticosteroids, insulin)1-5 and vaccines,6 connective tissue diseases (lupus erythematosus, morphea, dermatomyositis), or malignant neoplasms.

Please cite this article as: Vázquez-Osorio I, Rodríguez-Vidal A, Rosón E, Alonso-González J, Vázquez-Geiga H. Lipoatropia localizada en un niño tras administración de penicilina intramuscular. Actas Dermosifiliogr. 2016;107:620–622.