In conclusion, BSI is a rare genodermatosis belonging to the group of ARCI. It has a series of clinical and diagnostic peculiarities that we should be aware of. Although the diagnosis is usually clinical, confirmation can only be made by genetic analysis of the TGM-1 gene. This is the only gene implicated in this condition, but its mutations are also the most prevalent in other forms of ARCI, and many of the mutations are common to the different forms; thus, individuals with the same genetic load can develop different phenotypes, and these can even be dynamic, with changes occurring during life. All these features are important with respect to the prognosis in our patients and to correct genetic counselling.

Acknowledgments

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References


Histologic diagnosis of ossifying fibromyxoid tumor: 2 cases in the past 20 Years

Diagnóstico histológico del tumor fibromixoide osificante: 2 casos en los últimos 20 años

To the Editor:

The ossifying fibromyxoid tumor (OFMT) was originally described as a small benign tumor of the subcutaneous tissue. It is formed of small cells arranged in cords and nests in a fibromyxoid stroma, covered by a bony capsule. However, recent publications have reported histologic findings of malignancy associated with metastatic disease. There is controversy regarding the histologic origin of the tumor. Despite initially being considered to be distinct from schwannian or cartilaginous tumors, based on ultrastructural and immunohistochemical characteristics (positivity for protein S-100), more recent proteomic and genetic analyses support a neuronal or myoepithelial origin. In the last decade, the idea that malignant OFMTs do not exist has been proposed, as they do not satisfy the traditional histological description, and could correspond to other malignant soft tissue tumors.

In the last 20 years, 2 cases of OFMT have been identified in our hospital, one on the scalp of a 55-year-old man and the other on the hand of a 46-year-old man (Fig. 1). The tumors were painless. Histology of the excisional biopsies was consistent with the classic description of OFMT: well-defined capsule; areas of fibrosis formed of laminae of uniform, ovoid cells with round nuclei in a hyaline stroma; other areas of myxoid appearance with lower cellularity; and moderate diffuse positivity for protein S-100 (Fig. 2). The surgical margins were not extended in either case. No signs of local recurrence or metastases have been detected after follow-up of 18 years and 21 months, respectively.

This tumor typically affects men, and the mean age at presentation is 50 years. It usually arises in the proximal regions of the limbs, most commonly the lower limbs. Immunohistochemistry closely reflects the controversy regarding the histogenesis of the tumor. The origins that have been postulated with greatest emphasis are Schwann...
cells (because of the existence of well-developed, duplicated basal lamina and positivity for protein S-100) and cartilage (due to the presence of irregular cell borders with small projections and intracellular microfilaments with positivity for S-100). Other authors have suggested a myoepithelial lineage based on ultrastructural findings, or neuronal lineage due to positivity for CD56, a neural adhesion molecule, and for EAAT4, a neuronal glutamic acid transporter.

Cytogenetic analysis of this type of tumor focuses attention on 2 genes, INI-1, a tumor suppressor gene, and PHF1, which codes for a protein that, among other functions, regulates the activity of the polycomb-repressive complex 2, which silences genes responsible for development. Dysregulation of this complex, secondary to changes in these or other adjacent genes, has been suggested as a mechanism of development of OFMTs.

In 1995, Kilpatrick was the first to describe the existence of OFMTs with a malignant behavior, associated with atypical morphological findings. Folpe and Weiss identified criteria predictive of an aggressive or malignant behavior. Subsequently, Miettinen rejected the existence of malignant OFMTs, stating that the majority of those tumors did not satisfy the classic description of OFMTs and could be better classified as other types of sarcoma. Graham, continuing the work initiated by Folpe, validated their classification on finding that the malignant subtype was associated with a more aggressive behavior during follow-up.

A biologically aggressive behavior was also investigated in the largest series of OFMTs. Folpe detected local recurrence in 18% and metastases in 16%. Miettinen, including only typical OFMTs, reported local recurrence in 22% and no cases of metastasis. Finally, Graham reported local recurrence rates of 4.3% and metastasis in 6.5%, considering only malignant OFMTs. Grouping the data from those series, the metastatic risk of the typical variant is less than 5%; this indicates that, even if benign histological characteristics are observed, OFMT can give rise to metastases.

The scarcity of OFMTs recruited in the past 20 years in our hospital, given that the catchment population is close to 1 million, would appear to be related to a diagnostic vision closer to that of Miettinen than to Folpe and Graham. Thus, tumors that do not fit the typical description of OFMTs, and that showed characteristics of malignancy, were classified as low-grade sarcomas rather than as malignant OFMTs. This could explain the absence of recurrence in either of our 2 patients, despite having performed excisions with narrow margins.

In conclusion, OFMT is a rare disease, whose epidemiology may be biased by the diagnostic considerations of each pathology department regarding atypical and malignant variants. Despite showing benign characteristics, these tumors can present aggressive behavior, and they should not therefore be classified as benign, but rather considered as tumors of intermediate malignancy.

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Cutaneous Ulcer at the Site of Radiation-Induced Dermatitis Caused by Infection With Vibrio alginolyticus

To the Editor:

We report the case of a 66-year-old man with a painful ulcer that he first noticed on the sole of his left foot 2 months previously. The lesion appeared during the month of August on atrophic and scarred skin that was compatible with chronic radiation-induced dermatitis over an area where 15 years earlier he had received radiation therapy for a skin lesion of unknown origin (no medical or histological data were available). The patient lived on the island of Mallorca and habitually walked along the seashore. He reported no history of diabetes, hypertension, smoking, or other systemic symptoms or conditions of interest.

Examination of the skin revealed an ulcer with yellowish exudate, indurated margins, and atrophic skin in the adjacent areas. A blood workup revealed no leukocytosis or increased C-reactive protein levels. A substantial amount of tissue was taken from the margin and base of the ulcer for biopsy. Histopathology revealed collagenic fibrosis in the dermis and signs of vascular disease but no cellular atypia. These findings were compatible with radiation-induced dermatitis. Neoplastic processes were ruled out. Culture of the ulcer exudate revealed Vibrio alginolyticus (Fig. 1). Based on the results of the antibiogram, treatment was started with oral ciprofloxacin. However, the course was indolent, with the formation of a skin abscess (Fig. 1B) and development of osteomyelitis (Fig. 2) requiring admission to hospital. The lesion was debrided, even though no microorganisms grew in the culture. Antibiotic therapy was started with doxycycline and ceftriaxone for 10 days. Progress was good, and the ulcer resolved after 3 months.

V alginolyticus is a Gram-negative rod belonging to the genus Vibrio. It is the most halophilic of the Vibrio species, since it can grow in salt concentrations as high as 10%. V alginolyticus is pathogenic for humans, although its virulence is low, and it is acquired after exposure to seawater or marine animals. V alginolyticus was the only microorganism isolated in the present case. However, it is often found in association with other Vibrio species such as Vibrio parahaemolyticus or Vibrio vulnificus. V alginolyticus forms part of the habitual marine flora in temperate and tropical coastal waters. The incidence of infection by this microorganism in humans increases significantly during summer owing to the increase in the temperature of seawater. Similarly, the climate change observed in recent years leads us to believe that the density of this bacteria has been increasing both in tropical waters and in the colder waters of northern Europe.

The microorganism is mainly associated with conjunctivitis, otitis, gastroenteritis, and superinfection of wounds that come into contact with contaminated seawater. Although its course is usually benign and it responds well to oral antibiotic therapy, cases of bacteremia and necrotizing fasciitis have also been reported. Patients usually present some degree of immunosuppression (eg, advanced age, diabetes mellitus, liver disease, or immunosuppressive therapy) that predisposes them to infection.

Our literature search yielded only 1 other case of osteomyelitis caused by V alginolyticus. The patient had chronic hepatitis C and a surgical wound that became super-

References


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