Letters to the Editor

307 showed that both our patients were free from disease. The predisposing factors for the development of SCC appeared to be a chronic subungual infection in the first patient and previous repeated trauma in the second patient.

Disorders of the nail apparatus are often considered "minor diseases", but we stress that if nail lesions are recurrent, persistent or insensitive to treatment, skin biopsy is advisable to prevent misdiagnosis and to single out rare but ambiguous subungual lesions such as achromic melanoma or SCC.

REFERENCES


Malignant Granular Cell Tumour with Generalized Metastases and Polymyositis

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Sir,

Granular cell tumour is a rare, benign, soft tissue neoplasm. In 5.4–8.5% of cases it occurs with multiple lesions (1), and in 2% with malignant tumours (2, 3). A common characteristic of the cells is the presence of small cytoplasmic eosinophilic granulations. In terms of their histogenic origin, the results are not conclusive: fibroblasts, myoblasts, Schwann’s cells, histiocytes and neurons have been discussed (4, 5).

Here we report on a 69-year-old female patient who was admitted to our hospital suffering from symptomatic polymyositis in the prefinal stage due to a generalized malignant granular cell tumour with metastases in the skeletal musculature. Her clinical course was similar to that of a patient whose case was published in 1974 (6). The primary lesion could not be identified.

CASE REPORT

The patient was presented to our department in November 1999 with a history of multiple subcutaneous nodules during the previous 2 years. Physical examination revealed more than 100 nodules, 1–1.8 cm in diameter, oval or round, tense, mobile and covered by erythematous, smooth or verrucous skin localized to the trunk, extremities and neck, and with one nodule in the upper margin of the lip.

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The lesions had increased in size, and were itchy and painful because of pressure. The primary lesion could not be identified. General health conditions were found to be poor, with a history that included fever, malaise, headache, weakness and muscular pain – particularly M. deltoideus, M. biceps brachii et femoris, M. triceps brachii et surae, M. sternocleidomastoideus and M. levator palpebrae – and weight loss.

The laboratory findings revealed anaemia, increase in the blood sedimentation rate, increase in the liver enzymes and creatinine phosphokinase (CPK), excretion of creatine in the urine and polyphasic spikes in the electromyogram (EMG). Antinuclear and anti-Jo1 (histidyl-tRNA synthetase) antibodies were not detected.

Two deep biopsies were obtained from 2 nodules in the skin and one in the musculature of the M. deltoideus. Histopathological examination by haematoxylin and eosin-stained sections revealed irregular epidermal acanthosis. The dermis showed proliferation of polygonal, oval and spindle cells with granular eosinophilic cytoplasm and polymorphic, polychromatic and partly pyknotic nuclei with atypical mitoses grouped in nests, sheets and cords, as well as single cells infiltrating the subcutaneous fat tissue. The muscular lesion was similarly composed with destructions of the muscle fibres, loss of striation, oedema and slight lymphocytic infiltrates surrounding the infiltrating tumour cells (Fig. 1). In addition, the number of sarcolemmal nuclei was increased; the muscle fibres were focally degenerated demonstrating a fine granular or oedematous and homogeneous pattern or even completely destroyed. Immunohistochemical reactivity was positive to S-100 protein, neuron-specific enolase and partially to vimentin.

After 5 days the patient died of cardiac failure. Polychemotherapy had not been started; the application of 100 mg prednisolone per day failed to stop the disastrous course of the disease. Autopsy findings revealed generalized metastases in the skin, subcutis, skeletal muscles, in a few joint capsules of the fingers, lymph nodes, spleen and heart muscle, occasionally with neurotropic spreading of the tumour cells along peripheral nerves.

DISCUSSION

Definitive diagnosis of granular cell myoblastoma or schwannoma can only be made histologically.

The immunohistochemical findings (4) and the perineural extension of the tumour suggest a granular cell schwannoma origin (7). Furthermore, the cytoplasmic granules are lysosome-like structures containing myelin or its metabolic products. Granular cell schwannoma can clearly be distinguished from xanthoma and histiocytosis gigantocellularis (8). The generalization and malignant transformation of the tumour is remarkable. The histopathology, CPK level and the EMG support a true paramalignant myositis. Whether polymyositis is provoked by the spread of tumour antigens and the induction of a delayed type cytotoxic immune response could not be clarified. Alternatively, the simulation of a polymyositis, caused by diffuse destruction of the muscle fibres by metastases, should be considered.

Taken together, polymyositis can be associated as a paramalignant form or simulated by generalized metastases of a malignant tumour in rare events, in our case by a granular cell schwannoma.

REFERENCES: