Pachydermodactyly: Report of Two Cases

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Pachydermodactyly is a rare and benign form of digital fibromatosis with only a few cases described in the literature. We report two cases of pachydermodactyly affecting young men. In one of them a knuckle pad was found, and the fibromatous thickening of the skin affected not only the finger joints but also the dorsum of the hands. This case can be included in the particular clinical form named pachydermodactyly transgressens. Key word: digital fibromatosis.

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Pachydermodactyly is a rare and benign form of digital fibromatosis. It affects young males, and it is characterized by acquired asymptomatic swelling around one or more proximal phalanges or proximal interphalangeal joints. Histological findings include a marked thickening of the dermis with extension of collagen fibers into the subcutaneous tissue.

We here present two cases of pachydermodactyly involving both hands.

CASE REPORT

Case 1

A 17-year-old white man had a 2-year history of asymptomatic, diffuse swelling affecting dorsal and lateral sides of proximal interphalangeal joints at the 2nd, 3rd, and 4th fingers of both hands with slight involvement of the 5th finger. The lesions were much more evident on his left hand (Fig. 1).

The swellings were painless and he had correct motion of all his joints. They appeared as smooth, fusiform, padlike swellings over the dorsal and lateral sides of the affected fingers.

The skin of his left hand was hyperkeratotic, brown-coloured, with areas of mild erythema, extending to the areas of the metacarpophalangeal joints, and it was freely mobile.

A skin biopsy specimen revealed hyperkeratosis and acanthosis; the dermis was markedly thickened with an increased amount of collagen bundles, which extended into the subcutaneous fat (Fig. 2). Fibroblasts had no eosinophilic cytoplasmic inclusions, and there was no inflammatory infiltrate.

Case 2

An 18-year-old white man consulted us because of swellings of his fingers since the age of 16.

He had painless swellings over the dorsal and lateral sides of the proximal interphalangeal joints from the 2nd to 5th fingers of his right hand. On his left hand the lesions were only limited to the 2nd and 3rd proximal interphalangeal joints; the lesional clinical appearance of his 3rd finger was very similar to that of a knuckle pad (Fig. 3).

Skin changes were not only limited to the proximal interphalangeal joints; there was important fibromatous thickening of the overlying skin of the 2nd and 3rd metacarpophalangeal joints extending to the dorsal aspect of both hands. There was no movement limitation of his fingers.

The histological findings were similar to those of Case 1. In both cases the thumbs and toes were spared, and the patients denied continuous trauma or pressure over the involved areas. The general clinical examination showed normal findings and routine laboratory screening was normal. Roentgenograms of the hands showed soft-tissue swelling with no bone or articular abnormalities. The patients' family histories were non-contributory.

They both refused any method of surgical or chemical treatment.
similar, with cutaneous thickness extended to the dorsal aspect of his hands.

In most cases some epidermic alteration has been described. It has been defined as "thickened and craky", "slightly hyperkeratotic", "somewhat scaly", or "lichenification" (3,4,8,10), in the same way as the left hand of Case 1.

There is no standard and effective treatment, and in most cases no therapy has been tried. Intraleisional corticosteroids have been effective in some patients (5,7), but not in others (4), and excision of the excess tissues has been used with varying success (2,6). In one patient, the swellings underwent complete regression with the interruption of the sport activity that had subjected his fingers to continuous pressure (11).

REFERENCES


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