What lies beneath the skin

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DESCRIPTION
A 46-year-old man with a history of hypertension presented with a 6-month history of progressive, diffuse skin thickening. He denied any exposure to new drugs, toxins or contrast material, had no history of Raynaud's disease or endocrine disorder. Physical examination revealed diffuse skin tightness, limited range of motion of joints and sparse hair with leonine facies (figures 1 and 2). A skin biopsy revealed fibroblast proliferation (figure 3) and special staining with Alcian Blue (figure 4) revealed an increased mucin between and among collagen bundles resulting in the diagnosis of scleromyxedema. Further work-up revealed a bone marrow biopsy consistent with a plasma cell dyscrasia. Patient was subsequently treated with dexamethasone, bortezomib and thalidomide resulting in stabilisation of skin fibrosis and resolution of plasma cell dyscrasia.

Scleromyxedema is a rare connective tissue disorder that has been associated with paraproteinemias. It is characterised by cutaneous eruption of small, waxy, firm papules commonly occurring over thickened and indurated skin. Histologically, there is a cutaneous deposition of mucin in the superficial dermis and fibroblast proliferation. The presence of a monoclonal protein, often IgG-λ, supports the diagnosis of scleromyxedema. Treatment with thalidomide, melphalan or high-dose intravenous immunoglobulin may reduce the paraprotein.

Learning points
- The differential diagnosis for skin thickening extends beyond systemic sclerosis.
- Patients with a diagnosis of scleromyxedema should undergo bone marrow biopsy to rule out paraproteinemias.
- In patients with scleromyxedema treating underlying paraproteinemias improves skin fibrosis.
Competing interests None.
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REFERENCES


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