



NAIL DISORDERS

THREE CASES OF ONYCHOMATRICOMA

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Background: Onychomatricoma is a rare tumor derived from the nail matrix. Here we report three cases of onychomatricoma.

Observation: Case 1 was 50-year-old man who complained of a 4-year history of an 8-mm-wide column-like thickened nail deformity on his left middle fingernail. The tip of his nail showed a brain-like appearance. The nail unit was excised, followed by a skin graft. Case 2 was a 48-year-old woman who complained of a 10-year history of an 8-mm-wide column-like thickened nail deformity on her right index fingernail. The tip of her nail resembled a sieve. Case 3 was a 59-year-old woman who complained of a 13-year history of a 4-mm-thick thickened and elevated area on her right thumbnail. A lateral longitudinal nail excision was performed. All cases complained of pain during nail cutting. Dermoscopy revealed a yellow-whitish line, brown line, linear hemorrhage, and longitudinal groove. In case 3, a magnetic resonance imaging examination revealed a crest-like tumor from the matrix to the fingertip with a saw tooth-like appearance and had low intensity on T1 images and high intensity on T2 and diffuse images. Histopathological examinations of longitudinal sections showed a papillary tumor growing from the nail matrix to the tip. The tumor consisted of spindle cells with nuclei of various sizes accompanied by scattered giant cells. In the interstitial tissue, the proliferation of collagen fibers was observed. The nail plate epithelium grew and invaded the nail plate. Based on these findings, we diagnosed the three cases as onychomatricoma. No recurrence was noted after the operations.

Key message: Our cases suggested that a saw tooth-like appearance on magnetic resonance imaging that corresponds with the pathological findings may be helpful for the diagnosis.

