Tender Thumbnail Papule

What's the diagnosis?



A 71-year-old man presented to the dermatology clinic with mild tenderness and disfigurement of the right thumbnail of 6 months' duration. The patient reported trauma to his thumb from closing a window on it during the time between onset of symptoms and presentation to the dermatology clinic. On physical examination the right thumbnail was atrophic with a flesh-colored papule involving the proximal nail bed. The nail plate overlying the papule was thinned by the underlying growth and there

was a linear groove extending from the papule to the end of the nail. A biopsy was recommended for diagnosis and lidocaine was injected into the proximal aspect of the nail fold for local anesthesia. The lidocaine filled the papule, resulting in increased subungual pressure that caused the lesion to rupture through the nail plate, extruding a clear mucoid substance.

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The authors report no conflict of interest.

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The Diagnosis: Myxoid Cyst

yxoid cysts, often called ganglion cysts or mucous cysts, are smooth translucent nod-Lules that arise between the dorsal aspect of the distal interphalangeal joint and proximal nail fold.¹ Lesions often have an associated distal depression or groove on the affected fingernail and typically appear on the middle and index fingers between the fourth and seventh decades of life.2,3 Acute lesions may present as tender nodules, whereas gradually developing lesions tend to be painless.³ Trauma to the distal interphalangeal joint, degenerative processes, and osteoarthritis may increase hyaluronic acid production and allow synovial fluid to escape the joint space, accumulating in the surrounding tissue. Subungual localization of a mucous cyst is rare and may be difficult to diagnose.⁴ The differential diagnosis includes benign and malignant tumors such as periungual fibroma, glomus tumor, basal cell carcinoma, squamous cell carcinoma, and amelanotic melanoma.⁵ Our patient declined treatment with cryotherapy or intralesional steroid injection and drainage. He was referred to the orthopedic surgery department

for surgical removal of the cyst and imaging studies. Radiographs of the right thumb revealed severe osteoarthritis of the distal interphalangeal joint, demonstrating the association of digital mucous cysts.

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