



DEPARTMENT OF PATHOLOGY

Short Report in Pathology

Organ system: Genitourinary Tract

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History:

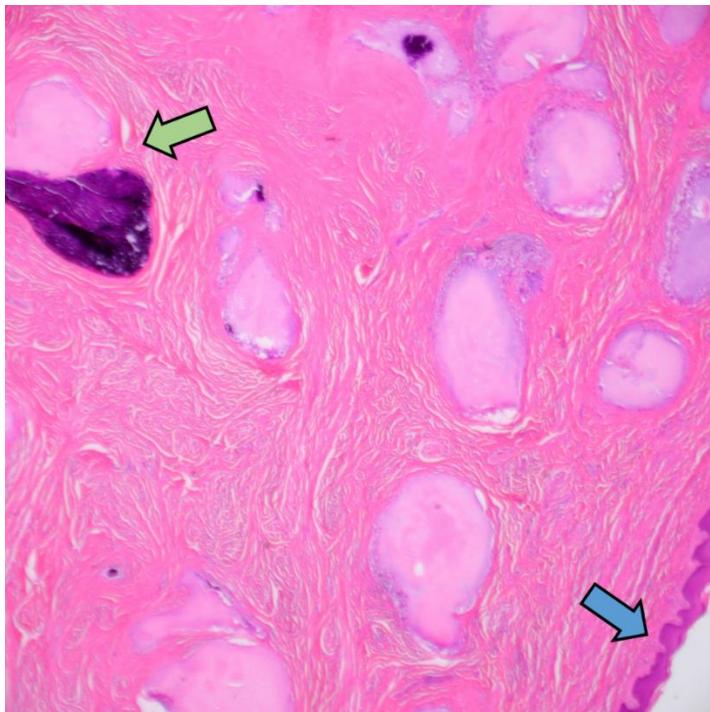
Patient is a 25-year-old male with a history of recurrent scrotal cysts, who presented to the urologist for a complaint of more than 10 scrotal cysts now affecting his quality of life. The cysts range from a few millimeters to a few centimeters. The patient notes the cysts have not become infected but at times were associated with some discharge. A scrotoplasty was performed without complication.

Gross Image:

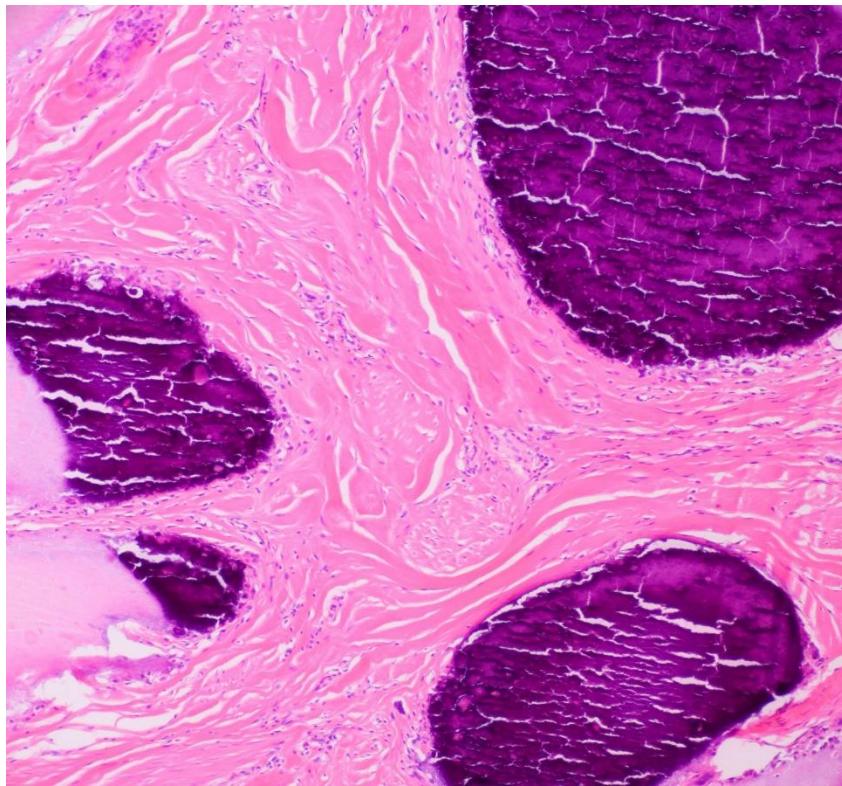


Image citation: Insel M, Swenson S. Scrotal Calcinosis. J Gen Intern Med. 2016 Sep;31(9):1104

Microscopic Images:



Section of scrotal skin nodule shows overlying keratinized epidermis (blue arrow) and intradermal nodular deposits of homogenous pink-blue material with partial calcification (green arrow) (H&E, 20x).



Higher power view of scrotal nodules shows calcified deposits within dense paucicellular eosinophilic fibroconnective tissue (H&E, 100x).

Diagnosis:

Scrotal calcinosis

Differential diagnoses:

1. Multiple epidermal inclusion cysts or pilar cysts in scrotum
2. Nodular amyloidosis
3. Dystrophic calcification due to microfilaria

Discussion:

Scrotal calcinosis is a benign condition that is related to calcinosis cutis and is not associated with any calcium or phosphate disturbance in affected patients (1). It is most common in males between their 3rd and 5th decade (1). The pathogenesis is unclear, but may be related to the dystrophic calcification associated with the inflammation of scrotal epidermoid cysts (2). In the

illustrated case, we present what may have been epidermal inclusion cyst remnants that are entirely necrotic and partially calcified, supporting the hypothesis of scrotal calcinosis resulting from dystrophic calcification of epidermoid cysts.

References:

1. Insel M, Swenson S. Scrotal Calcinosis. *J Gen Intern Med*. 2016 Sep;31(9):1104. doi: 10.1007/s11606-016-3600-y. Epub 2016 Feb 26. PMID: 26921158; PMCID: PMC4978666.
2. Swinehart JM, Golitz LE. Scrotal calcinosis. Dystrophic calcification of epidermoid cysts. *Arch Dermatol*. 1982 Dec;118(12):985-8. doi: 10.1001/archderm.118.12.985. PMID: 7149755.