Testicular Epidermoid Cyst: A Case Report

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Abstract

Epidermal cysts are the most common skin benign epithelial cysts. Most epidermal cysts occur in the skin of the head, neck, ear, face, and back. Testicular epidermoid cyst is very rare. We presented a 70-year-old man with testicular epidermoid cyst in this report.

Keywords: Epidermoid cyst; Testis; Benign epithelial cysts

Introduction

Most epidermoid cysts are derived from the follicular infundibulum and also are called in infundibular cysts [1]. These cysts have non-malignant potential and metastasis [2]. The first case report for testicular epidermoid cyst was published by Dockerty and Priestly in 1942 [3]. Here in this case report we have presented a rare testicular benign epidermoid cyst.

Case Presentation

70-year-old man was referred to hospital with the complaints of left testicular pain. In clinical examination, left tests was found as a palpable hard nodule. Right testis was completely normal. Patient had no past history and trauma. Evaluated laboratory tests showed no abnormal findings. Serum alpha-fetoprotein, beta-HCG and LDH were between normal range limits. Ultrasonography showed left testis larger than the right testis. Lesion was present in testicular parenchyma without invasion into the capsule.

Figure 1: Histologically, the cystic lesion lined by stratified squamous epithelium with a prominent granular cell layer. The cyst lumen is filled with the abundant keratin. (H&E magnification X20).

According to clinical and radiographic finding evaluation we diagnosed an initial testicular tumour primarily. The patient underwent orchietomy of the testicular mass. Then, we performed a frozen section to rule out surgical margins malignancy. The resected mass was measured 5.2 × 7.5 × 1.0 cm. Cut section revealed a well-defined keratinizing cystic mass. Histologic findings revealed a benign cystic lesion lined by stratified squamous epithelium with a prominent granular cell layer. The cyst lumen is filled with the abundant keratin (Figure1). There was no evidence of malignancy. A final diagnosis of epidermoied cyst confirmed. The patient is under regular follow-up since last 10 months without any evidence of recurrence 10 months without any evidence of recurrence.

Discussion

Epidermal cysts are more common in men as in women [4-6]. Testicular epidermoid cyst is very rare. These benign lesions are about 3% of all testicular tumours [7]. The histopathologic features of testicular epidermoid cysts are similar with skin’s epidermoid cysts [8]. Microscopically, epidermoid cysts revealed, a cystic lesion covered by stratified squamous epithelium with a prominent granular cell layer. The cyst lumen is filled with the abundant keratin, debris and desquamated cells [9]. Although the epithelial lining not to have malignant potential but malignant changes of basal cell carcinoma or squamous cell carcinoma from epidermal cysts have been reported [10]. Testicular sonographic findings in epidermal cysts described a sharply defined mass with a hyperechoic rim “onion ring” appearance of alternating hypoechoigenicity layers of compacted keratin [8]. Magnetic resonance imaging (MRI) findings in these cysts revealed well-defined solid masses surrounded by a fibrous capsule [5]. This finding is similar to our case. Epidermoid cysts the prognosis is good. This cysts usually treated by conservative surgical excision and recurrence is uncommon [4].

Conclusion

Although testicular epidermal cysts are benign epithelial cysts and occurring of these lesions is very rare, malignant transformation has been reported in some cases. Therefore patient's follow-up is required.

References


