INTRODUCTION

The epididymis is an organ intimately attached to the posterolateral aspect of the testis. It is a complex tubular network that connects the testicular efferent ducts to the vas deferens and a variety of non-neoplastic and neoplastic lesions involves the epididymis (1). Spermatic granuloma (SG) is a granulomatous lesion that presents clinically as a nodular lesion in the region of epididymis. It represents a chronic immune response to extravasated sperm caused by trauma, surgery or infection. There are only few documented cases of spermatic granuloma in the literature. We present a new case of SG.

CASE REPORT

A 45-year-old man presented in the office with chronic pain in right testicle. He had history of closed ended vasectomy 7 years ago. Physical examination revealed a nodular firm lesion in the epididymal coil and ultrasound showed a 1.5 cm well-defined hypoechoic solid nodule at the right epididymis coil (Figure-1, yellow arrow). The laboratory data, including alpha fetoprotein, beta human chorionic gonadotropin and lactate dehydrogenase were normal. Suspected diagnosis was adenomatoid tumor, thus a testis-sparing surgical excision was performed and epididymal nodule was resected. A white nodule 1.7 cm in diameter was found in the resected specimen. Pathological findings were phagocytosed sperms in the macrophages delimited by histiocytes and giant cells (Figure-2), and scarce calcifications, with final diagnosis of SG.

DISCUSSION

Various inflammatory, benign, and malignant lesions of epididymis have been described in the literature. Although only 3% of all extra testicular masses are malignant (2), previous studies have shown the malignancy rate for solid epididymal masses, to be as high as 16% (3). A SG is a rare benign condition, identified in only 5-7.5% (4, 5) of epididymal nodules. It was firstly described by Friedman (6) in 1949, tends to occur secondary to inflammation, trauma and vasectomy, and is thought to be a granulomatous reaction to extravasated sperm cells, characterized by...
nodules. However, in recent years, fine needle aspiration cytology has an important role in the differential diagnosis of epididymal nodules because they are easily accessible, providing adequate material for examination. This in the future could avoid unnecessary surgeries (4).

CONFLICT OF INTEREST

None declared.

REFERENCES


