Tuberculoma of the Spermatic Cord

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Key Words
Genitourinary tuberculosis · Spermatic cord tuberculoma

Abstract
Objective and importance: Tuberculoma of the intrascrotal cord is rare. There were only 8 other cases reported in the English literature. Clinical presentation: A 40-year-old man presented with a painless mass in the left scrotal region. Preoperated frozen section showed it to be a tuberculous lesion. Intervention or technique: The mass was excised in toto and the final histopathology confirmed the frozen section and antituberculous drugs were administered. Conclusion: An awareness of this condition would prevent an orchidectomy on the patient for a benign lesion.

Introduction
Tuberculoma of the spermatic cord was reported in 115 cases in the Japanese literature. Intrascrotal tuberculoma is rare, and only 8 cases were reported in the English literature so far [1]. This condition is difficult to distinguish from malignant tumors in the scrotum.

Preoperative diagnosis is important to avoid performing an extensive surgery (orchiectomy) for a benign lesion. Unfortunately, 6/8 of these patients with intrascrotal tuberculoma were subjected to unnecessary orchiectomy [2, 3]. This is a report of another case of intrascrotal tuberculoma which was managed by limited excision of the mass after confirming the diagnosis by preoperative frozen section.

Case Report
A 40-year-old patient from Bangladesh presented to the Urological Outpatient Clinic with a 2-month history of a painless left scrotal mass. The patient gave no
Fig. 1. Macroscopic appearance of tuberculoma of the spermatic cord. Excised completely.

Fig. 2. Microscopic appearance of the tuberculoma. HE. × 65. → = Caseation; → = Langhans’ giant cells.

Fig. 3. Evidence of vasculitis granuloma with giant cell (arrow). HE. × 65.
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Discussion

Tuberculosis (TB) is recurring everywhere especially among the underprivileged and AIDS patients [4]. TB usually reaches the lower genitourinary tract by hematogenous spread or by descent from an infected kidney. It occurs in <1% of patients with pulmonary infection [5] and is a disease of the sexually active male. Constitutional symptoms such as fever, night sweats and loss of weight are not usually seen in patients with genitourinary TB. TB of the spermatic cord is not uncommon [1, 6, 7]. It most commonly presents in the inguinal region. Spermatic cord TB has been reported in about 115 cases in the Japanese literature [1]. However, intrascrotal tuberculoma seems to be rare. There were only 8 cases reported in the English literature [1]. Other conditions can cause a mass in the cord, i.e. lymphoma, rhabdomyosarcoma, adenomatoid cyst, and adrenal rest. The importance of these lesions is that they can mimic malignancy and it has been advised that such swellings should be managed as suspect testicular tumors [6]. Unfortunately, 6 out of the 8 reported intrascrotal tuberculoma patients had mistakenly undergone orchidectomy for suspected malignancy. It is prudent therefore that every effort should be made for a pre- or perioperative diagnosis to avoid such an unforgivable mistake.

Up to 70% of the patients with genitourinary TB have dormant or active pulmonary disease [8, 9]. It is therefore incumbent on the treating doctor to rule out this possibility. Patients with or without extragenital infection should receive full antituberculous therapy for at least 1 month [7].

In conclusion this report emphasizes a few points in managing a painless intrascrotal mass: (a) Preoperative frozen section is helpful in excluding malignancy and avoiding unnecessary orchidectomy. (b) Limited resection of the mass with preservation of the testis and epididymis seems to be sufficient in the management of such cases. (c) Once the diagnosis is confirmed, anti-TB therapy should be continued for 9–12 months. (d) High ESR in
an otherwise healthy patient should raise the suspicion. In addition, ESR can be monitored in the follow-up of these patients. A drop in the ESR value is probably an indication of response to therapy.

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References