INTRODUCTION

Inguinal Abscess due to torsion of a cryptorchid testicle is an uncommon condition. Testicular torsion is classically described as having a bimodal distribution with peaks being within the first year of life and early in puberty. Although this bimodal distribution is the most common presentation. Torsion can occur at any age and must be considered in any male with acute inguinal, scrotal or abdominal pain. Although a rare event overall, among patients with undescended testes, torsion is not uncommon and is the primary indication for surgical correction once the patient is deemed safe for general anesthesia. A recent 20-year retrospective review found only 11 cases with most cases in the perinatal period. Another study found a torsion rate of 3.8% of patients going to the operating room with an undescended testis. Andersen and Wille-Jorgensen present a 3.6% rate of undescended testicular torsion in a 5-year retrospective study of patients with suspected torsion. For poorly understood reasons, torsion more commonly occurs in the left testis. The presentations of these cases have been associated with groin pain, a palpable mass or inconsolable crying. None of these cases are reported in the 1- to 3-year-old age range; most are in children under 1 year of age, making this a unique case in medical literature.

CASE REPORT

A 14 months old child was admitted in surgical unit of District Head Quarters Hospital Toba Tek Singh with history of pain and swelling of right inguinal region for the last seven days. Child's mother also told that he had loss of appetite and high grade fever. Physical exam revealed heart rate of 150 beats per minute, respiratory rate of 28 breaths per minute, temperature of 100.4°F. The child was fussy. Local and genitourinary examination was performed, which revealed that his right inguinal region was swollen and fluctuant, that was 5 cm in greatest dimension. No testicle was palpable in the right ipsilateral hemiscrotum. An ultrasound examination of the inguinal area revealed a heterogeneous testicle, with no blood flow on Doppler examination. Incision and drainage confirmed torsion of the right undescended gangrenous testis. After Incision and drainage and orchiectomy patient showed un-eventful recovery.

Key words: Inguinal Abscess, Un-descended testis, Tortion of testis, Orchiectomy.

ABSTRACT... A case of 14 months old child with history of uncorrected right cryptorchidism is reported here who presented with right inguinal abscess after 7 days of right groin pain. A genitourinary examination was performed, which revealed that his right inguinal region was swollen and fluctuant, that was 5 cm in greatest dimension. No testicle was palpable in the right ipsilateral hemiscrotum. An ultrasound examination of the inguinal area revealed a heterogeneous testicle, with no blood flow on Doppler examination. Incision and drainage confirmed torsion of the right undescended gangrenous testis. After Incision and drainage and orchiectomy patient showed un-eventful recovery.
Incision and drainage confirmed torsion of the right undescended testis. After Incision and drainage and orchiectomy patient showed uneventful recovery.

**DISCUSSION**

Testicular torsion is classically described as having a bimodal distribution with peaks being within the first year of life and early in puberty. Although this bimodal distribution is the most common presentation, torsion can occur at any age and must be considered in any male with acute inguinal, scrotal or abdominal pain. Although a rare event overall, among patients with undescended testes, torsion is not uncommon and is the primary indication for surgical correction once the patient is deemed safe for general anesthesia. A recent 20-year retrospective review found only 11 cases with most cases in the perinatal period. Another study found a torsion rate of 3.8% of patients going to the operating room with an undescended testis. Andersen and Wille-Jorgensen present a 3.6% rate of undescended testicular torsion in a 5-year retrospective study of patients with suspected torsion. For poorly understood reasons, torsion more commonly occurs in the left testis. The presentations of these cases have been associated with groin pain, a palpable mass or inconsolable crying most are in children under 1 year of age, making this a unique case in medical literature.

In the undescended testicle, torsion classically occurs in the perinatal period and is considered unlikely after the first year of life. However, the highest incidence of testicular torsion occurs in the young adult population. Most testes are unsalvageable at the time of diagnosis due to the difficulty of the diagnosis in this age range. Due to the consequences of a missed diagnosis, clinicians must have a high index of suspicion. Doppler ultrasound has emerged as the test of choice for diagnosis of testicular torsion; however, a high false negative rate remains. Sensitivity of 87.9% and specificity of 93.3% for Doppler ultrasound for testicular torsion is reported, but this is much lower in the case of the descended testis. Current literature recommends orchiopexy by the age of 2. The rate of spontaneous descent declines significantly after 3 months of age, and the risks of surgery and general anesthesia decrease after 1 year. The previous cases reported in the literature of infants or toddlers with undescended testicular torsion had symptoms that led to a diagnosis of nonspecific abdominal pain leading to the final diagnosis.

Testicular torsion must be included in the differential of any child with an empty scrotal and concerning symptoms. Salvage rates are estimated at 90% to 100% if detorsion occurs within 6 hours of onset of symptoms, but decline to 20% after 12 hours and 0% to 10% if delayed longer than 24 hours. However, severe damage is reported to occur within 4 hours of onset of symptoms. Early surgical consultation is critical, even prior to definitive diagnosis if suspicion is high enough.

**CONCLUSIONS**

The primary issues in the case of a pediatric patient with an undescended testicular torsion are both delay in presentation and delay in diagnosis, leading to a necrotic testicle. These children usually present late with nonspecific symptoms that lead to a broad differential that must be quickly narrowed if the child is to have a salvageable testicle. Patients undergoing orchiectomy can have issues with fertility later in life secondary to a decreased sperm count. This case demonstrates a nonspecific history and physical examination in a child outside the classic age range for testicular torsion. Emergency physicians must use available diagnostic tools to quickly narrow the differential and appropriately dispose the child to raise the chance of a salvageable testicle.

Copyright © 15 Feb, 2014.

**REFERENCES**


Do not spoil what you have by desiring what you have not; remember that what you now have was once among the things you only hoped for.

Epicurus