

Painful Scrotum

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Red flags

- Strangulated inguinal hernia
- Testicular torsion

1. Consider the **patient age**

Patient age

- *Torsion of the spermatic cord is typically seen in patients aged 12 to 20 years, but can occur at any age.*
- *Torsion of a testicular appendage is typically seen in patients aged 6 to 12 years.*
- *Infection is usually seen in either young sexually active adults or elderly patients with voiding problems.*

2. Take the **history of the pain** e.g., severity, duration, and speed of onset.

History of the pain

- *Pain caused by torsion of the cord is usually severe, starts suddenly, and is not relieved by lying still. Patients usually present soon after the onset of pain.*
- *Those with torsion of a testicular appendage have mild pain and often present after the pain has been present for a day or longer.*
- *Pain caused by infection is usually mild to moderate severity, starts gradually, and is relieved by bed rest.*

3. Consider **associated symptoms**

Associated symptoms

- *If symptoms include:*
 - *nausea or vomiting, consider torsion.*
 - *fever or rigors, consider epididymo-orchitis.*
 - *abdominal pain, consider testicular torsion.*
 - *parotid swelling, consider mumps orchitis.*
- *Always ask about the patient's sexual history. Urethral discharge or dysuria are often absent in epididymo-orchitis.*

4. Perform **examination**

Examination

- *Take temperature:*
 - *Patients with epididymo-orchitis are usually febrile.*
 - *Those with torsion are usually afebrile, but occasionally have low grade fever.*
- *Identify the testis and epididymis:*
 - *In epididymitis, the pain and swelling are mainly in the epididymis.*
 - *In torsion, the testis usually sits high in the scrotum and the normal orientation (epididymis posterior) is lost.*
- *If examination abnormality and acutely painful scrotum of < 24 hours duration, refer for [immediate urology referral or admission](#).*

5. Determine the most likely cause, based on the history and examination.

- **Epididymo-orchitis**

Epididymo-orchitis

- Gradual onset of unilateral pain, fever, swelling, and inflammation of the epididymis with or without swelling of the testes.
- Can be due to infection either from urethra (usually an STI), bladder, or prostate.
- Can be associated with recent instrumentation or significant lower urinary tract symptoms.

- Strangulated inguinal hernia

- **Torsion of testes**

Torsion of testes

- Most common between ages 10 to 25 years, rare in patients aged > 30 years.
- Usually presents early with severe abdominal pain of < 12 hours.
- Intermittent torsion can cause episodes of severe pain.
- May have nausea and vomiting, and clear urine.
- Testis initially tender with swelling and erythema developing late.
- Absent cremasteric reflex.
- Testes may be elevated or lying transversely.

- **Torsion of testicular or epididymal appendage**

Torsion of testicular or epididymal appendage

- Often hard to differentiate from testicular torsion, typically presents with 1 to 2 days of less severe pain than torsion of testis, with a local area of tenderness anterosuperiorly, that in some cases may appear discoloured (the blue dot sign).
- Most common in patients aged 6 to 12 years.

- Trauma or haematoma – usually obvious as there will be a history of trauma but the swelling may occur several weeks later.

6. Investigations:

- If torsion is possible, arrange [immediate urology referral or admission](#) without community investigation as viability of the testis requires surgery within a few hours.
- Acute scrotal conditions do not usually require ultrasound in the community setting.
- For scrotal pain or ache that has been present for days or weeks, an ultrasound performed in the community is appropriate.
- Arrange MSU.
- If epididymo-orchitis, arrange an STI check.

Management

1. Arrange [immediate urology referral or admission](#) if:

- strangulated inguinal hernia.
- torsion of testes.
- torsion of testicular or epididymal appendage.

2. If intermittent pain suggestive of intermittent testicular torsion, phone to arrange an [urgent urology referral](#).

3. If epididymo-orchitis:
 - and sexually active, test and **treat empirically for STI** – chlamydia or gonorrhoea is the most likely cause.

Empiric treatment for STI

Treat with:

- either:
 - ceftriaxone 500 mg in 2 mL of 1% lignocaine intramuscularly, or
 - ceftriaxone 500 mg IV as a single dose
- plus, azithromycin 1 g orally as a single dose
- plus either:
 - doxycycline 100 mg orally twice daily for 14 days, or
 - a second dose of azithromycin 1 g orally a week later.

For men who engage in insertive anal sex, if poor response to above treatment regimen, consider coliform bacteria as causative pathogen.

- and not sexually active, **treat empirically for UTI or prostatitis** – the more likely cause. rest, analgesia, scrotal support, and NSAIDs are important components of treatment.

Empiric treatment for UTI or prostatitis

- Norfloxacin 400 mg or ciprofloxacin 500 mg twice a day for 14 days.
 - If not settling, may need longer course.
 - review at 48 hours. If no improvement, consider admission for IV antibiotic therapy.
4. If trauma or haematoma, suggest rest, scrotal support, and analgesia. If large haematoma, consider [urology referral](#).

Referral

- Arrange [immediate urology referral or admission](#) if:
 - acutely painful scrotum of < 24 hours duration with any examination abnormality.
 - strangulated inguinal hernia.
 - torsion of testes.
 - torsion of testicular or epididymal appendage.
 - epididymo-orchitis with systemic sepsis.
- If intermittent pain suggestive of intermittent testicular torsion, phone to arrange an [urgent urology referral](#).
- If non-STI-associated epididymo-orchitis in patient with lower urinary tract symptoms, arrange [urgent urology referral](#).

Information

For patients

Better Health Channel:

- [Epididymitis](#)
- [Testicle Injuries and Conditions](#)

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