



Image 1

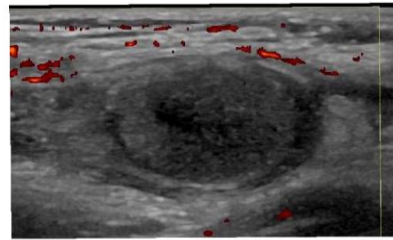


Image 2

A 2 year old boy is brought to the emergency department with symptoms of irritability, persistent crying and swelling in the left groin (Image 1) . You examine the child and find that both his scrotum are ill- developed and empty and there is a painful swelling in the left inguinal region. You ask his mother what had happened, to which she replied that her child was playing and all of a sudden he sat down and started shrieking. She also said that there was a similar episode in the past presenting with a swelling in his right groin which had self- resolved. You provide the child with some analgesic and send him for an USG-Abdomen. USG of the swelling on color Doppler shows the following image (Image -2).

Answers:

1. What is your Provisional diagnosis ?

Testicular torsion occurring in left sided undescended testis.

Positive points:

1. Empty and undeveloped scrotum.
2. Usually children come with incessant crying and nausea, vomiting. Complain of pain is uncommon in children.
3. Similar episode of right side indicates a torsion of right testis previously which may have self resolved or the testis had undergo atrophy

2. What is your differential diagnosis ?

Strangulated inguinal hernia ( quite commonly associated with undescended testis)

Orchitis

Seminoma

3. How would you manage this patient?

1. Torsion of testis is a surgical emergency and needs to be treated as soon as possible.
2. Factors affect the outcome of the condition:
  1. Duration of the torsion
  2. Flow on color Doppler
3. Bleeding from tunica albuginea after incision. If the duration is less, with flow on color Doppler usually indicates that the testis is salvageable.
4. Torsion of  $>360^\circ$  needs to be treated within 4 hours while, if less than  $<360^\circ$  can be treated within 24 hours more delay is associated with higher incidence of atrophy.
5. Treatment depends on whether the testis is viable or not. If viable usual course of action includes detorsion of spermatic cord followed by orchidopexy, or else orchiectomy.
6. All specimens need to be sent for biopsy to exclude seminoma.

