

 **Urology Mini-
OSCE
Archive
– Group 3(A1 & A2)**



Exam Date: 31-7-2025

Station 1 –

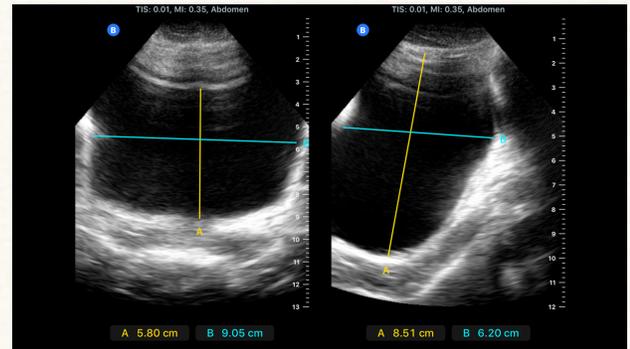
Case:

A 55-year-old male underwent surgical repair of lumbar disc herniation. Several weeks later, he developed urinary retention. (Areflex Bladder Post-Spinal Surgery)

Ultrasound shows a large post-void residual volume, and bladder scan confirms an areflex bladder.

Urinalysis reveals:

- pH = 5
- Numerous RBCs
- Needle-shaped crystals



Questions:

1. What is the type of bladder dysfunction in this patient?

→ Areflexic (flaccid) neurogenic bladder

2. Which lab finding supports your diagnosis?

→ Needle-shaped crystals in acidic urine suggest stasis and uric acid crystalluria

3. What is the first step in management?

→ Insert a urinary catheter for bladder decompression

Station 2 –

A 60-year-old male with gout, on allopurinol, presents with sudden severe left loin pain. He reports poor fluid intake.

A CT scan reveals a stone in the left ureter.



Questions & Answers:

1. What is the most likely type of stone?

→ Uric acid stone

2. What risk factor contributed to this condition?

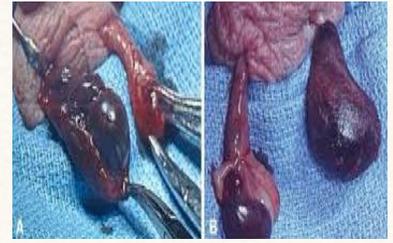
→ Poor hydration and gout

3. What can help improve his condition and prevent recurrence?

→ Increase fluid intake and alkalinize urine (e.g., potassium citrate)

Station 3–

A 17-year-old male presents with severe left testicular pain for more than 7 hours. The image provided in the exam shows findings suggestive of testicular torsion.



Questions & Answers:

1. What is the differential diagnosis of this presentation?

→ Testicular torsion, epididymitis, torsion of appendix testis, orchitis, inguinal hernia, trauma

2. What is the spot diagnosis based on the image?

→ Testicular torsion

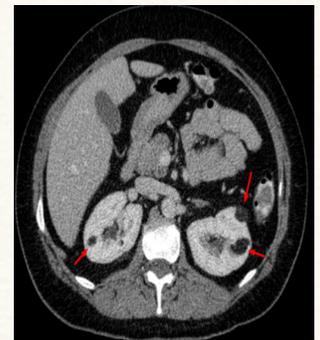
3. What are the types of this pathology?

→

- Intravaginal torsion (common in adolescents)
- Extravaginal torsion (common in neonates)
- Intermittent torsion (spontaneous detorsion episodes)

Station 4 –

A 63-year-old male presents with an incidental finding on CT scan showing two solid masses in the left kidney.



Questions & Answers:

1. What is the most common type of renal mass in adults?

→ Renal cell carcinoma (clear cell subtype)

2. What is the appropriate treatment?

→ Partial or radical nephrectomy depending on tumor size and location

3. Mention a syndrome associated with this pathology.

→ 1. Tuberous sclerosis

2. Wunderlich's syndrome

3. Von Hippel-Lindau syndrome (renal cysts)

4. Autosomal recessive polycystic kidney disease (renal cysts)

5. Autosomal dominant polycystic kidney disease (renal cysts)

Station 5-

A 28-year-old male presents with painless swelling in the left testis.

Scrotal ultrasound (shown) reveals a hypoechoic intratesticular lesion with well-defined borders.



Questions & Answers:

What is the differential diagnosis of a testicular mass?

- Germ cell tumor (e.g., seminoma)
- Hydrocele
- Epididymo-orchitis

2. What is the most common type of testicular tumor in this age group?

→ Seminoma

3. What tumor markers ?

→

- AFP → Normal in pure seminoma; ↑ in yolk sac tumor
- β -hCG → May be mildly ↑ in seminoma; significantly ↑ in choriocarcinoma
- LDH → Reflects tumor burden

Station 6:

1. Most common zone involved in BPH:

Transition zone

2. Non-expanding perirenal hematoma, cortical laceration <1cm deep without urinary extravasation – What stage?

Renal trauma Grade II

3. Extraperitoneal bladder injury :

managed conservatively with Foley catheter only

4. Type of incontinence after prostatectomy:

Stress incontinence

5. Straddle urethral injury involves which part?

Bulbar urethra

6. Central mediator of erection:

Nitric oxide (NO)

7. Azoospermia with normal hormonal profile – next investigation?

Testicular biopsy

8. Most common indicator of renal injury:

Hematuria

9. Which of the following structures is responsible for the production of fructose in the seminal fluid?

Seminal vesicles

10. A newborn is found to have hydronephrosis. What is the most appropriate imaging study to evaluate for the underlying cause?

MCUG

والله وليّ التوفيق

إن شاء الله ما اكون نسيت شيء

دعواتكم وبالتوفيق 

By Abrar Abu Nawas

