AMSER Case of the Month: July 2018

19yo F with RLQ abdominal pain

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Patient Presentation

- 19yo F BIBEMS for evaluation of RLQ pain with nausea and vomiting
  - Cramping, constant, 10/10, non-radiating, abrupt onset this morning
- PMHx: Mild intermittent asthma
- GYNHx:
  - No prior Pap; No Hx of STIs; No prior pregnancies, miscarriages, or abortions
  - LMP 06/06/2018
  - Copper IUD placed 06/05/18
- Physical Exam
  - VS: 36.7° C HR 68  BP 124/64  RR 18 SpO2: 100%
  - Abdominal: RLQ TTP and + Rovsing’s Sign
  - Pelvic: No blood in vaginal vault, IUD strings visible, no cervical motion or adnexal tenderness/ Bimanual: Palpable mass R adnexa
Pertinent Labs

- WBC: 13.8, Hgb: 11.9
- BUN: 14, Cr: 0.59
- Lipase: 17
- B-HCG: negative
- Urinalysis: normal

What Imaging Should We Order?
ACR Appropriateness Criteria: RLQ Pain

This imaging modality was ordered by the ED physician
Findings (labeled)

Para-ovarian cyst
Enlarged R ovary, suggesting torsion
Para-ovarian cyst
Enlarged R ovary
Bladder

What Additional Imaging Should We Order?
ACR Appropriateness Criteria: Adnexal Mass

These imaging modalities were ordered by the ED physician.
Findings (unlabeled)
Findings (labeled)

Paraovarian cyst

Enlarged R ovary

Intact waveform, indicating good blood flow to L ovary

Absent waveform, indicating diminished blood flow to R ovary
Final Dx:

Right Ovarian Torsion with necrosis
Ovarian Torsion

• Definition: Rotation of the ovary around the infundibulopevic and utero-ovarian ligaments → impendence of blood flow

• Risk Factors:
  • Ovarian mass: cyst or neoplasm
  • Reproductive age

• Typical Imaging Findings on U/S
  • Enlarged ovary compared to contralateral- edema and lymph engorgement
  • Ovarian Mass
  • Decreased or absent Doppler flow

• Differential Diagnosis:
  • R/o ectopic pregnancy, appendicitis, and tubo-ovarian abscess

• Surgical Evaluation
  • Confirm Torsion
  • Assess ovarian viability

Detorsion & ovarian conservation  Salpingo-oophrectomy
References:


https://www.uptodate.com/contents/ovarian-and-fallopian-tube-torsion?search=ovarian%20torsion&source=search_result&selectedTitle=1~71&usage_type=default&display_rank=1#H16