The Adolescent Girl with Abdominal Pain:

Great Mimickers

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Nothing to Disclose
In the adolescent female presenting with abdominal pain, six important mimics should be considered.
I. Introduction & Imaging Approach
II. Acute pain
III. Chronic pain (cyclical)
IV. Chronic pain (non-cyclical)
V. Summary
Abdominal Pain in the Adolescent Girl: Great Mimickers

Introduction

- Gynecologic causes >> than acute appendicitis in females >12

[Ultrasound image with text: LMP AROUND 6/11/08]
Abdominal Pain in the Adolescent Girl: Great Mimickers

Introduction

Clinical Presentation

- Acute Pain
- Chronic cyclic
- Chronic non-cyclic
Abdominal Pain in the Adolescent Girl: Great Mimickers

- Ultrasound
Abdominal Pain in the Adolescent Girl: Great Mimickers

CT
- Not useful for routine screening
Abdominal Pain in the Adolescent Girl: Great Mimickers

**Imaging Approach**

**MRI**
- Excellent soft tissue detail
- Complex pathology
OUTLINE:
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Acute Appendicitis

- RLQ pain
- Non-compressible tubular structure
- >6-7mm max thickness
- 2mm single wall thickness

Adolescent Girl with: Acute Pain
Ovarian Torsion

- Morphology, size most constant abnormality
- Doppler interrogation can vary between ovaries

Adolescent Girl with: **Acute** Pain
Pelvic Inflammatory Disease

Adolescent Girl with: Acute Pain
Tubal Torsion

- Isolated torsion of the fallopian tube
- Corkscrew appearance

Adolescent Girl with: **Acute** Pain
Isolated Tubal Torsion

- Ovary
- UTERUS
- Fallopian Tube
- Ovary
Adolescent Girl with: **Acute** Pain

- Look for plica to identify tube
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V. Summary
Obstructed Muellerian Duct Anomaly

- May obstruct, present with pain or mass
- Assessment of fundal contour essential for complete characterization of MDAs
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Adolescent Girl with: **Chronic Non-Cyclic Pain**

Ovarian Masses
Ovarian Masses

- Teratoma common
- Look for internal fat/calcification

Adolescent Girl with: **Chronic Non-Cyclic** Pain
Inflammatory Bowel Disease

- Increasingly common in young patients
- Check carefully for fistulous tracts to unusual sites
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Thank you!