

AMSER Case of the Month

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30 year old male presenting with LLQ pain



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Patient Presentation

- 30 year old male
 - h/o appendicitis (appendectomy age 20), asthma , obesity, GAD
- Stabbing, sharp LLQ pain for 48 hours
- Worse with heavy lifting and movement
- No associated symptoms
- ROS negative
- Vitals WNL with exception of BP 145/78
- Physical exam showed periumbilical and LLQ tenderness to palpation

Pertinent Labs

- CBC – Normal
 - No signs of infection
- CMP – Normal
- Urinalysis – Normal

What Imaging Should We Order?

Select the applicable ACR Appropriateness Criteria

Variant 1:

Left lower quadrant pain. Suspected diverticulitis. Initial imaging.

Procedure	Appropriateness Category	Relative Radiation Level
CT abdomen and pelvis with IV contrast	Usually Appropriate	☼☼☼
CT abdomen and pelvis without IV contrast	May Be Appropriate	☼☼☼
MRI abdomen and pelvis without and with IV contrast	May Be Appropriate	○
MRI abdomen and pelvis without IV contrast	May Be Appropriate	○
US abdomen transabdominal	May Be Appropriate	○
CT abdomen and pelvis without and with IV contrast	Usually Not Appropriate	☼☼☼☼
Fluoroscopy contrast enema	Usually Not Appropriate	☼☼☼
Radiography abdomen and pelvis	Usually Not Appropriate	☼☼☼
US pelvis transvaginal	Usually Not Appropriate	○

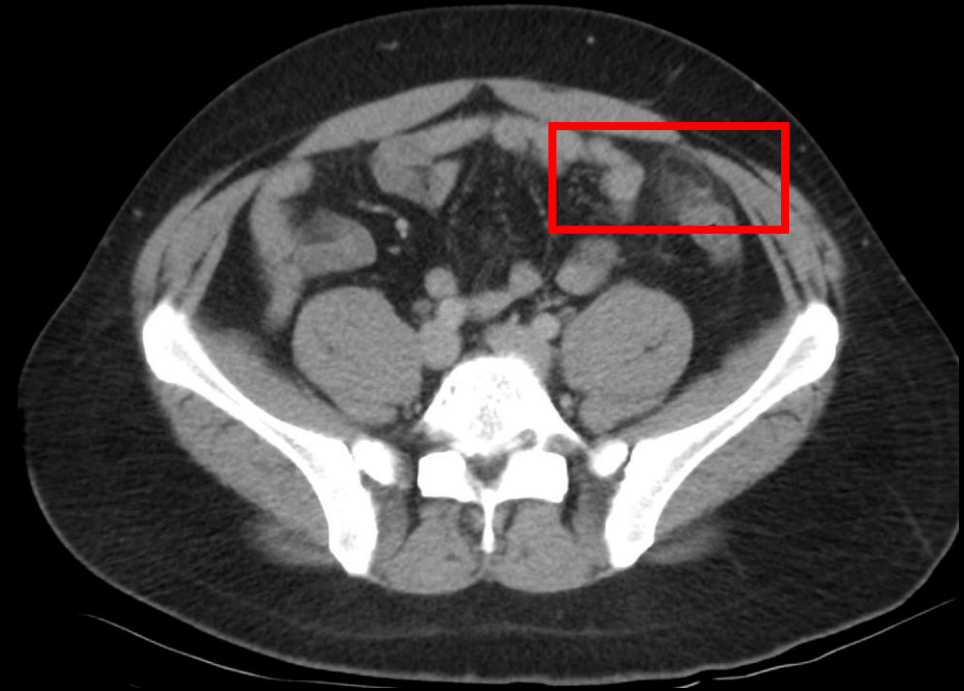
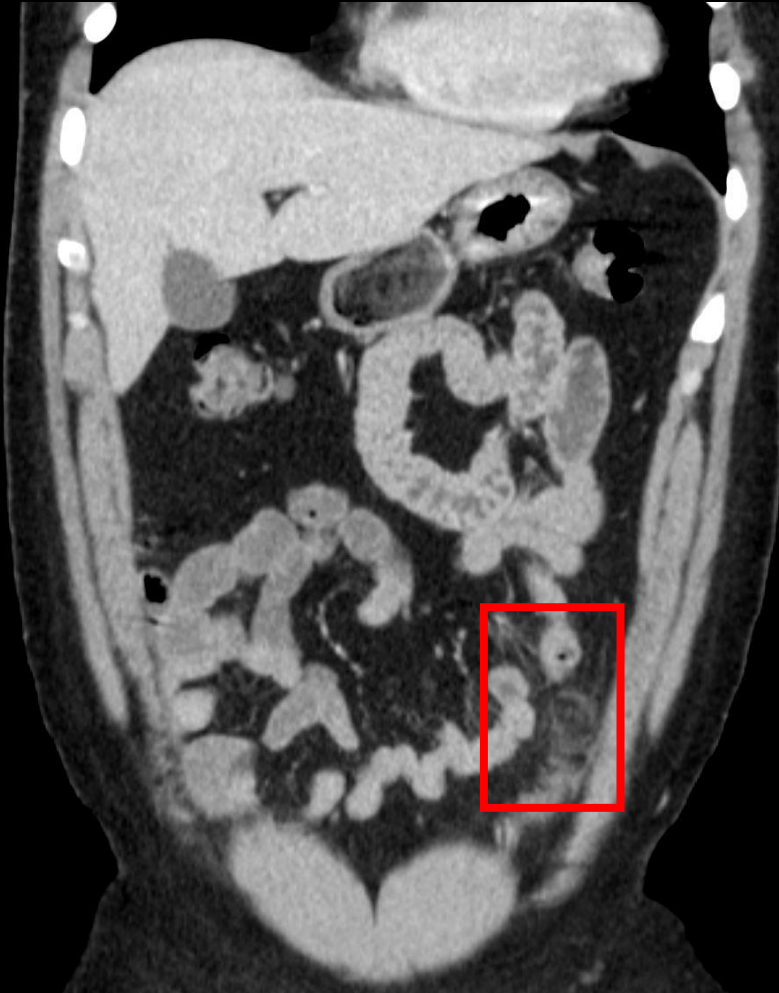
This imaging modality was ordered by the ER physician



Findings



Findings



CT findings:

- Fat dense ovoid lesion adjacent to the colonic wall
- Hyperdense rim of inflammation
- Fat stranding
- No colonic wall thickening

Final Dx:

Epiploic Appendagitis

Case Discussion

Epidemiology

- 8.8 cases per million per year
- Men > women
- 3rd to 5th decade of life

Classic Presentation

- Acute abdominal pain
- Localized to either right or left side
- +/- Peritoneal signs (appendage may adhere to the peritoneum)
- Rarely concurrent nausea/vomiting or changes in bowel habits
- 1/3 of patients have palpable mass

Case Discussion

Pathophysiology

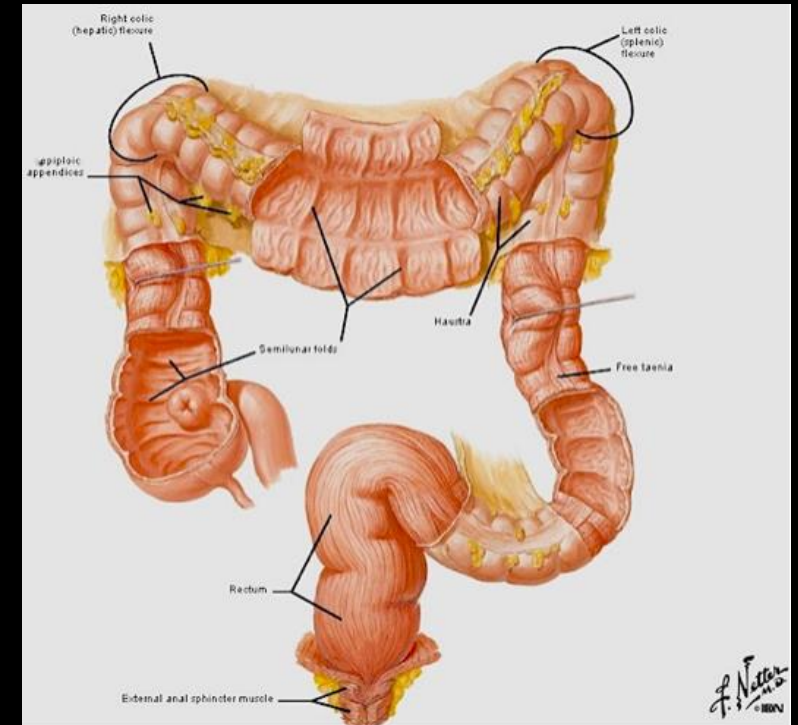
- Venous occlusion of the epiploic appendage
- Torsion or spontaneous venous thrombus

Diagnostic

- CT is best test
- MRI / US considered if CT contraindicated

Treatment

- Self limiting
- Pain management and symptomatic relief
- Our patient - Morphine, Zofran, NSS bolus and DC'd with Vicodin
- No indication for antibiotics



Case Discussion

Clinical significance

- Mimics appendicitis and acute/recurrent diverticulitis
- Important to identify to avoid unnecessary antibiotic use and/or surgical intervention
- Unlike diverticulitis recurrence is rare

References:

Choi, Y. I., Woo, H. S., Chung, J., Shim, Y. S., Kwon, K. A., Kim, K. O., . . . Park, D. K. (2019). Primary EPIPLOIC Appendagitis: Compared with diverticulitis and focused on obesity and recurrence. *Intestinal Research*, 17(4), 554-560.

doi:10.5217/ir.2018.00148

Galgano, S. J., McNamara, M. M., Peterson, C. M., Kim, D. H., Fowler, K. J., Camacho, M. A., . . . Carucci, L. R. (2019). Acr appropriateness criteria® left lower quadrant pain-suspected diverticulitis. *Journal of the American College of Radiology*, 16(5). doi:10.1016/j.jacr.2019.02.015

Netter, F. H. (2019). *Atlas of human anatomy*. Philadelphia, PA: Elsevier.

Qudsiya, Z., & Lerner, D. (2020). Acute EPIPLOIC appendagitis: An OVERLOOKED cause of Acute abdominal pain. *Cureus*. doi:10.7759/cureus.10715

Singh, A. K., Gervais, D. A., Hahn, P. F., Rhea, J., & Mueller, P. R. (2004). Ct appearance of acute appendagitis. *American Journal of Roentgenology*, 183(5), 1303-1307. doi:10.2214/ajr.183.5.1831303