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CASE REPORT

OMENTAL INFARCTION IN A CHILD

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Omental infarction is a rare cause of acute abdomen in children. Typical findings on imaging establish the diagnosis. We present case of a 7 years old boy who presented with acute right iliac fossa pain with diagnosis of omental infarction on imaging and findings confirmed on laparotomy. Sound knowledge regarding this infrequent cause of acute abdomen in children is necessary for timely diagnosis.

Keywords: Tuberculosis; Computed Tomography; Stomach.

INTRODUCTION

Omental Infarction is a rare cause of acute abdomen in children with about 50 reported cases so far.1 It mostly involves the right iliac fossa and is often indistinguishable from acute appendicitis on clinical examination.2,3 We present a case of a 7 year old child with acute right iliac fossa pain, found to have omental infarction on imaging and findings confirmed on laparotomy.

CASE

A 7 years old boy presented to emergency room with complaints of severe right iliac fossa pain for past one day. On examination he was active, alert vitally stable and afebrile. He had a height of 120 cm and weight of 25 kg (BMI: 17.5). General physical examination was unremarkable; however he was severely tender to palpation in right iliac fossa on systemic examination. Lab workup revealed complete blood count, serum amylase and electrolytes to be within normal limits.

On clinical suspicion of appendicitis an ultrasound examination was ordered which revealed; a highly echogenic localized fat measuring 37×22×61 mm with no internal vascularity in the right iliac fossa. Sluggish peristaltic activity was seen in surrounding bowel loops. Appendix was not separately visualized and there was no free fluid. The patient however was significantly tender to probing during examination. Considering the overall appearances a suspicion of omental infarction was raised and further imaging advised.

DISCUSSION

Omental infarction is reported as a rare cause of acute abdomen in children; especially obese. Acute onset pain of right iliac fossa is most common presentation as seen in our case as well.1-3 Associated symptoms include nausea, vomiting and occasionally fever. Clinical examination is almost always positive for abdominal tenderness which is mostly localized to right lower quadrant. In addition peritoneal signs like rebound tenderness may be encountered in certain
Ultrasound is usually the first modality for imaging due to its lack of ionizing radiation & though less sensitive, it usually demonstrates hyper echoic cake like soft tissue mass in right iliac fossa with positive probe tenderness. Most common findings of omental infarction on plain CT include ill-defined mass of focal fat located between anterior abdominal wall & colon. Whirled hyper dense vessel is also usually seen in the center of the focal fat stranding. All of these features were seen on both modalities in our case. In some centers Magnetic resonance imaging (MRI) is followed by ultrasound using abdominal protocol for appendicitis which usually demonstrates a focal region of heterogeneous fat with surrounding inflammation and fluid in the right side of the abdomen between the ascending colon and the abdominal wall, representative of omental infarction.

CONCLUSION
Sound knowledge regarding omental infarction in children is necessary for prompt diagnosis and appropriately guiding management.

REFERENCES

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