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Primary omental infarction – a benign cause of acute abdomen

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Abstract

Objectives: Omental infarction (OI) is an uncommon cause of acute abdominal pain. A high index of clinical suspicion is required for diagnosis of OI as the incidence is less than 1%, presenting with abdominal pain. We report primary OI's clinical and radiological profile from a single tertiary care hospital in India.

Methods: In this retrospective cross-sectional study, the electronic medical and radiology records of patients with abdominal pain were reviewed over seven years (2015–2022). Variables were systematically collected and analyzed.

Results: A total of 22 patients diagnosed with primary OI were included in this study. Male preponderance (63.6%) was noted with a mean age of 47.45 years ($SD \pm 13.84$; range: 18–72 years). Most patients belonged to class I obesity (according to the Asia-Pacific body mass index classification) with a mean BMI of 26.56 kg/m^2 ($SD \pm 3.21 \text{ kg/m}^2$). All patients had abdominal pain as the primary symptom, with a mean duration of 8.64 days ($SD \pm 10.15$; range: 1–42 days). The most common locations of pain were the right hypochondrium (27.3%) and diffuse (27.3%), followed by the right iliac fossa (18.1%). Most (95.45%, $n=21/22$) patients were treated conservatively, and only one required surgical intervention.

Conclusions: Primary OI is a rare and benign cause of acute abdomen. Obesity is a risk factor but does not correlate with

the size or severity of OI. Radiological imaging, like a computed tomography (CT) scan, is essential for diagnosis. A conservative management line should be the first approach in treating primary OI before considering surgical options.

Keywords: greater omentum; omental infarction; primary omental infarction; acute abdomen; radiology; omentectomy

Introduction

The term omentum was thought to be derived from the Latin name “*operimentum*,” which means “covering.” The greater omentum is a large double-layered visceral peritoneal fold developed from the mesoderm [1, 2]. The omentum is rich in adipose tissue and has a surface area from 0.3 to 1.5 m^2 covering the abdominal viscera. Morison called the omentum “abdominal policeman” in 1906 because of its ability to creep to areas of intra-abdominal insult. De Marchetti first reported acute torsion of the omentum in 1858. Historically, surgeons have noted intra-operative changes of the greater omentum in response to acute peritoneal inflammation or infection [2].

Omental infarction (OI) can be categorized as primary, spontaneous, or secondary based on the pathogenesis [3]. Often, there is no evident cause for primary or spontaneous OI. Secondary OI can occur due to systemic causes like hypercoagulable states, vasculitis, polycythemia, and torsion of the vascular pedicle due to local causes like intra-abdominal cysts, tumors, or adhesions. OI is a rare condition, with only a few hundred reported cases and fewer case series [4]. Radiological imaging using computed tomography (CT) and magnetic resonance imaging (MRI) has increased the yield of diagnosing OI. We report a retrospective case series of primary OI, analyzing the clinical and radiological profile.

Materials and methods

All diagnosed cases of OI were included in this retrospective case series from 2015 to 2022 at a tertiary care referral center in India. Clinical and laboratory data was retrieved by reviewing the electronic medical case records. Radiological images were acquired from a Radiology

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