Introduction: Mesenteric panniculitis is a nonspecific inflammatory process affecting the fatty tissue at the root of the mesentery. It is characterized by the association of inflammation, necrosis or fibrosis involving the adipose tissue of the bowel mesentery. The pathophysiology of this disease remains unclear. When symptomatic, patients may present with abdominal pain, palpable abdominal mass or intestinal obstruction. The disease remains asymptomatic in 30 to 50% of cases. Abdominal CT plays an important role in suggesting the diagnosis. Medical treatment may consist of therapy with anti-inflammatory or immunosuppressive agents. Surgical treatment should be exclusively attempted when intestinal obstruction or ischemia occur. Mesenteric panniculitis usually has an uneventful clinical course and resolves spontaneously in a variable delay. Observation: we report the case of a 35-year-old patient with no pathologic history, admitted to the emergency departments for the management of intense epigastric abdominal pain associated with a few episodes of vomiting. The diagnosis of mesenteric panniculitis was retained on an abdominal CT, the treatment consisted of corticosteroid therapy with good evolution. Conclusion: Mesenteric panniculitis is a rare pathology. The diagnosis is most often mentioned on imaging and requires histological confirmation given of the many differential diagnoses on imaging. Only the symptomatic forms require the initiation of treatment. The natural course of PM is good.

Keywords: Mesenteric panniculitis; Retractilemesenterite; Sclerosingmesenterite.
Computed tomography (CT) of the abdomen was performed using reconstructed slice thickness of 5 mm after intravenous (iv) contrast administration, which showed a focal increase in density of the mesenteric fat with stranding in the supra-umbilical region, which was most probably inflammatory in origin and suggestive of mesenteric panniculitis (figure 1).

The patient was started on prednisone 40 mg daily and was followed-up closely. Her symptoms gradually decreased in intensity and pain disappeared totally within 1 week.

Fig 1: CT scan in the axial plane after IV contrast administration shows a focal increase in density of the mesenteric fat (arrow)

DISCUSSION
Mesenteric panniculitis is a rare inflammatory condition that is characterized by chronic and nonspecific inflammation of the adipose tissue of the intestinal mesentery, first described in the medical literature in 1924 as “retractile mesenteritis”. Since that time, alternative names have been used to describe the condition including mesenteric panniculitis, retractile mesenteritis and mesenteric lipodystrophy. These names denote the predominant features of the disease process in the mesentery. The disease mainly affects people in their fifties, with a male-to-female ratio of 2–3:1.

The pathogenic mechanism of mesenteric panniculitis seems to be a nonspecific response to a wide variety of stimuli. Although various causal factors have been identified, the precise etiology remains unknown. Furthermore, the disease is related to other factors, such as mesenteric thrombosis, mesenteric arteriopathy, drugs, thermal or chemical injuries, vasculitis, avitaminosis, autoimmune disease, retained suture material, pancreatitis, bile or urine leakage, hypersensitivity reactions, and even bacterial infection [4, 5]. Other factors, such as gallstones, coronary disease, cirrhosis, abdominal aortic aneurysm, peptic ulcer, or chylous ascitis, have also been linked to this disease [6]. More recent studies have shown a strong relationship between tobacco consumption and panniculitis [5].

Retractile mesenteritis has been associated with a number of malignant diseases such as lymphoma, lung cancer, melanoma, colon cancer, renal cell cancer, myeloma, gastric carcinoma, chronic lymphocytic leukemia, Hodgkin’s disease, large cell lymphoma (giant-cell carcinoma), carcinoid tumor, and thoracic mesothelioma [4, 5, 7, 8].

In over 90% of cases, mesenteric panniculitis involves the small-bowel mesentery, although it may sometimes involve the sigmoid mesentery [9]. On rare occasions, it may involve the mesocolon, peripancreatic region, omentum, retroperitoneum or pelvis [10].

The clinical presentation of mesenteric panniculitis is highly variable. Some patients have few or no noticeable symptoms. The most common symptom is abdominal pain. The diagnosis of mesenteric panniculitis may be made incidentally following a CT scan of the abdomen, generally for the evaluation of abdominal pain.

Histologically, the disease progresses in three stages [4]. The first stage is mesenteric lipodystrophy, in which a layer of foamy macrophages replaces mesenteric fat. Acute inflammatory signs are minimal or non-existent; the disease tends to be clinically asymptomatic and prognosis is good. In the second stage, termed mesenteric panniculitis, histology reveals an infiltrate made up of plasma cells and a few polymorphonuclear leukocytes, foreign-body giant cells, and foamy macrophages. The final stage is retractile mesenteritis, which shows collagen deposition, fibrosis, and inflammation.

Mesenteric panniculitis resolves spontaneously in most cases, however, palpable masses may often be found between 2 and 11 years after diagnosis, especially in patients with associated comorbidity [8]. In such cases, several types of treatment have been proposed but no consensus has been established. In general, treatment has been reserved for symptomatic cases. Incidental masses may be observed and left untreated. Therapy is individualized on a case by case basis. Treatment may be attempted with a variety of drugs including steroids, thalidomide, cyclophosphamide, progesterone, colchicine, azathioprine, tamoxifen, antibiotics and emetine, or radiotherapy, with different degrees of success [11, 12]. Surgery may be attempted if medical therapy fails or in the presence of life-threatening complications such as bowel obstruction or perforation [13].

CONCLUSION
Mesenteric panniculitis is a rare clinical entity that occurs independently or in association with other disorders. Diagnosis of this nonspecific, benign inflammatory disease is a challenge to gastroenterologists, radiologists, surgeons and pathologists. CT features of the disease, usually highly
suggestive, have recently been delineated clearly. Open biopsy seems rarely necessary. There is no standardized treatment, only the symptomatic forms require the initiation of treatment, and it may consist of anti-inflammatory or immunosuppressive agents. We recommend resection only when the advanced inflammatory changes become irreversible or in cases of bowel obstruction. Overall prognosis is usually good and recurrence seems to be rare.

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