A 57-year-old Guatemalan man with no relevant medical or surgical history presented with an acute onset of sharp, non-radiating lower abdominal pain of 12 hours duration. His social history included smoking a daily pack of cigarettes and working as a fisherman on the tropical Guatemalan south coast. The patient reported fevers up to 101°F, nausea, and three episodes of nonbloody vomiting in the preceding 12 hours. He stated that 3 hours prior to presentation, the pain had become generalized over his entire abdomen.

On admission, the patient was in acute distress because of the pain and was febrile (102°F). Abdominal examination revealed that his abdomen was tense, diffusely tender to palpation, with nonvoluntary guarding, marked rebound tenderness, and absent bowel sounds. His white blood cell count was raised at $13 \times 10^9/L$ with 26% eosinophils, but his serum electrolyte levels were normal, and stool examination was negative for ova and parasites. An initial abdominal plain radiograph revealed subdiaphragmatic gas.

The patient was taken to the operating room for an exploratory laparotomy. Intraoperative findings included abundant amounts of intestinal contents in the peritoneal cavity, an intact appendix with no inflammatory changes, partial necrosis of the terminal ileum 2 cm from the ileocecal valve, and necrosis with perforation of the cecum. He underwent peritoneal lavage, appendectomy, resection of 15 cm of ascending colon (Fig. 1a), and resection of 5 cm of distal ileum with an end-to-end anastomosis. The patient had a satisfactory postoperative course and was discharged home.

Histologic evaluation of the specimens revealed dense eosinophilic infiltration in the intestinal tissue with granuloma formation and giant cells (Fig. 1b), parasitic larvae with surrounding inflammation (Fig. 1c), and intravascular parasites causing thrombosis (Fig. 1d). Findings were consistent with infection by *Angiostrongylus costaricensis* causing mesenteric ischemia and subsequent perforation. Abdominal angiostrongyliasis is a zoonotic disease caused by invasion of the mesenteric vessels by the nematode...
Angiostrongylus costaricensis, whose definite and intermediate hosts are the rodent and slug, respectively. It is endemic to Latin America, with its prevalence inversely related to hygiene conditions [1]. Humans are accidental hosts, developing classical findings for acute appendicitis when mesenteric vessels are occluded by the intravascular parasite (Fig. 1d), and even bowel perforation [2]. No medical therapy has been identified for Angiostrongylus costaricensis. The complications, such as those seen in our patient, are treated surgically.

References

Competing interests: None