Diagnosis of intestinal ascariasis in modern era

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DESCRIPTION
A 40-year-old woman presented with altered bowel movements, 10-pound weight loss and abdominal discomfort for 1 month. Prior to this, she had been on a week-long trip to Mexico. The patient’s complete metabolic profile, complete blood count, serum amylase and lipase, urine analysis and culture and stool studies for white cell count, ova, parasite and culture were all either in the reference range or negative. An ultrasonography of the abdomen was normal. An axial CT scan of the abdomen with oral and intravenous radiocontrast material showed multiple tubular filling defects about 15 cm in length predominantly located in the jejunal lumen (figures 1–3), highly suggestive of intestinal parasites. She was treated with a dose of oral albendazole 400 mg. After 1 week, her symptoms improved and she reported passage of 15–20 cm long cream coloured cylindrical worms in her stool.

Ascariasis is caused by the parasitic roundworm, Ascaris lumbricoides and is uncommon in developed countries. Most patients are asymptomatic, hence it can be undetected for years until they develop some symptoms.1,2 Diagnosis is usually made through a combination of blood counts showing marked leucocytosis with eosinophilia, stool studies and radiographic imaging. Complications can range from nutritional deficiency to obstruction of the bowel lumen, the bile or pancreatic duct, perforation, volvulus, intussusception, appendicitis, cholecystitis, biliary colic, cholangitis, hepatic abscess and pancreatitis depending on the site and severity of infestation.1,3 Antihelminthic therapy is usually sufficient except in few cases where surgical interventions might be needed.4

Learning points
▸ Intestinal ascariasis can present with non-specific symptoms and signs.
▸ Diagnosis requires high index of suspicion and can be usually made through a combination of blood counts showing marked leucocytosis with eosinophilia, stool studies and radiographic imaging.
▸ Antihelminthic therapy is usually sufficient except in few cases where surgical interventions might be needed.
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REFERENCES