Small bowel obstruction secondary to ileal endometriosis: multisection computer tomography evaluation

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Approximately 10 to 15% of pre-menopausal women are affected by endometriosis, which in rare cases can cause intestinal obstruction (1). The presence of ectopic endometriotic tissue in the loops of the small bowel affects the serosa (visceral peritoneum) and muscularis propria, but never penetrates the mucosa (2). Fibrosis and secondary adhesions are the major causes of obstruction (2). Ileal involvement is uncommon and usually affects the terminal ileum within 10 cm of the ileocecal valve (3). Intestinal endometriosis should be suspected in cases of young nulliparous women with abdominal or pelvic pain (3,4).

Imaging diagnosis is difficult. However, multisection computer tomography (CT) provides high spatial resolution and multiplanar reformation images, which can be very demonstrative and characteristic.

CASE REPORT

We report the case of a 22-year-old woman without any significant prior medical history who presented with abdominal pain and high leukocytosis. A contrast-enhanced
multisection CT was performed, which revealed significant small-bowel dilatation and multiple nodular contrast-enhanced lesions located in the pelvis (Fig. 1). One of the lesions affected the right annexial region while the remaining lesions were located in the visceral peritoneum involving the small bowel. The largest lesion measured approximately 3 cm in diameter and involved the appendiceal region and terminal ileum, this being the transition point of the obstruction (Fig. 2). The diagnosis after CT examination was small-bowel obstruction secondary to intestinal endometriosis. Surgery confirmed the CT findings, identifying multiple endometriotic implants in the serosa of the small bowel, especially at the level of the terminal ileum (Figs. 3 and 4). A segment of terminal ileum and the appendix were resected. Histopathological examination of the resected specimen revealed endometriotic implants involving the appendix and terminal ileum.

REFERENCES