CASE REPORT

A 67-year-old woman presented in the emergency room with abdominal pain for 2 hours. Physical examination showed abdominal distension and diffuse pain without signs of peritoneal irritation.

A plain abdominal radiography showed distension of cecum located ectopically in the left upper quadrant, with little aeration of the distal colon. Given these findings, an intravenous contrast enhanced multidetector computed tomography (MDCT) was performed (Figs. 1-4). The cecum was markedly enlarged and dilated, twisted and inverted, occupying the left hypochondrium. The terminal ileum was twisted also. These results were very suggestive of loop type cecal volvulus.

DISCUSSION

Cecal volvulus is an uncommon condition caused by the turning round of the cecum around its own mesenteric axis. A 360° rotation of the mesenteric pedicle of the ileo-colic artery is generally produced. This causes strangulation with occlusion of the two intestinal edges and risk of vascular damage.
Cecal volvulus can be produced by axial torsion of the cecum, by collapse into the ascending colon (cecal bascule), or by turning and reversing its position occupying the left upper quadrant (cecum loop twist or loop type). The third type of cecal volvulus is presented here. Differentiation between the three subtypes of cecal volvulus is not important from a clinical point of view, as its presentation and treatment are similar. However, radiographic appearances are different, and recognition of these differences is important for diagnosis.

The main signs that can be found on MDCT are:

- The cecum is located in the left upper quadrant and markedly distended (> 10 cm), which has a specificity approaching 100%.
- Bird’s beak sign: Abrupt transition between the collapsed, twisted segment and the dilated, obstructed segment.
- Whirl sign: Torsion of the mesentery and intestinal loops along the axis of rotation.

**RECOMMENDED REFERENCES**