Hiatal herniation following total gastrectomy

Key words: Diaphragmatic hernia. Gastrectomy. Esophagectomy.

Dear Editor,

The authors present a case of early hiatal hernia (HH) that occurred a week after. Our purpose in this case report is to discuss briefly the potential cause and to enhance the importance of computed tomography (CT).

Case report

The patient was a 69-year-old male with advanced gastric cancer of the cardias who underwent total gastrectomy, lower esophagectomy, with antecolic Roux-en-Y reconstruction.

Thirty days after surgery, he presented to the emergency department with orthopnea. A CT scan reported that both small and large bowel were herniated into the right hemithorax (Fig. 1). Patient was admitted for urgent laparotomy with intraoperative findings of a transdiaphragmatic evisceration into the thorax. After hernia reduction, the hiatal defect was closed with polypropilien interrupted sutures.

On the 7th day, our patient started with dyspnoea again. We repeated the CT; images showed a relapse of abdominal content herniated into the thorax. Our patient was operated on again and, this time, a mesh of BioA© was fixed with interrupted sutures.

He was discharged 28 days after admission; a previous CT was done, with no findings.

Discussion

Incidence of HH after esophagectomy ranges from 0.05% (1) to 19.4% (2) in some series.

The enlargement of the hiatus after esophagectomy makes patients prone to HH, with higher incidence after transhiatal esophagectomy (3), as it was our case. Patients with high body mass index (BMI) are less prone to have a HH postesophagectomy; our patient’s BMI was 25. Another predisposing factor is the pressure gradient between thoracic and abdominal cavities.

Incarceration may appear sooner or later, with a wide range of clinical symptoms. Clinical suspicion based on patients background and early CT scan is very important in the detection of this pathology (3).

Primary repair may be done by reapproximating diaphragmatic crura. In the recurrence, the repair may require the use of meshes (3,4). Despite mesh repair, HH can recur (5).

María Azucena Gonzalo, Helen Almeida and Antonio Güemes

Department of General Surgery, Esophagogastric Unit. Hospital Universitario Lozano Blesa. Zaragoza, Spain

Fig. 1. A. Coronal CT. Small bowel into the right hemithorax. Patient on supine position. B. Axial image.
References


