

## Images in clinical medicine



# Giant hiatal hernia

Danilo Coco, Silvana Leanza

**Corresponding author:** Danilo Coco, Department of General Surgery, Ospedali Riuniti Marche Nord, Pesaro, Italy. webcostruction@msn.com

**Received:** 18 Sep 2020 - **Accepted:** 19 Sep 2020 - **Published:** 24 Sep 2020

**Keywords:** Giant hiatal hernia, diaphragmatic hernia, volvulus

**Copyright:** Danilo Coco et al. Pan African Medical Journal (ISSN: 1937-8688). This is an Open Access article distributed under the terms of the Creative Commons Attribution International 4.0 License (<https://creativecommons.org/licenses/by/4.0/>), which permits unrestricted use, distribution, and reproduction in any medium, provided the original work is properly cited.

**Cite this article:** Danilo Coco et al. Giant hiatal hernia. Pan African Medical Journal. 2020;37(86). 10.11604/pamj.2020.37.86.26141

**Available online at:** <https://www.panafrican-med-journal.com//content/article/37/86/full>

## Giant hiatal hernia

Danilo Coco<sup>1,&</sup>, Silvana Leanza<sup>2</sup>

<sup>1</sup>Department of General Surgery, Ospedali Riuniti Marche Nord, Pesaro, Italy, <sup>2</sup>Department of General Surgery, Carlo Urban Hospital, Jesi, Ancona, Italy

### &Corresponding author

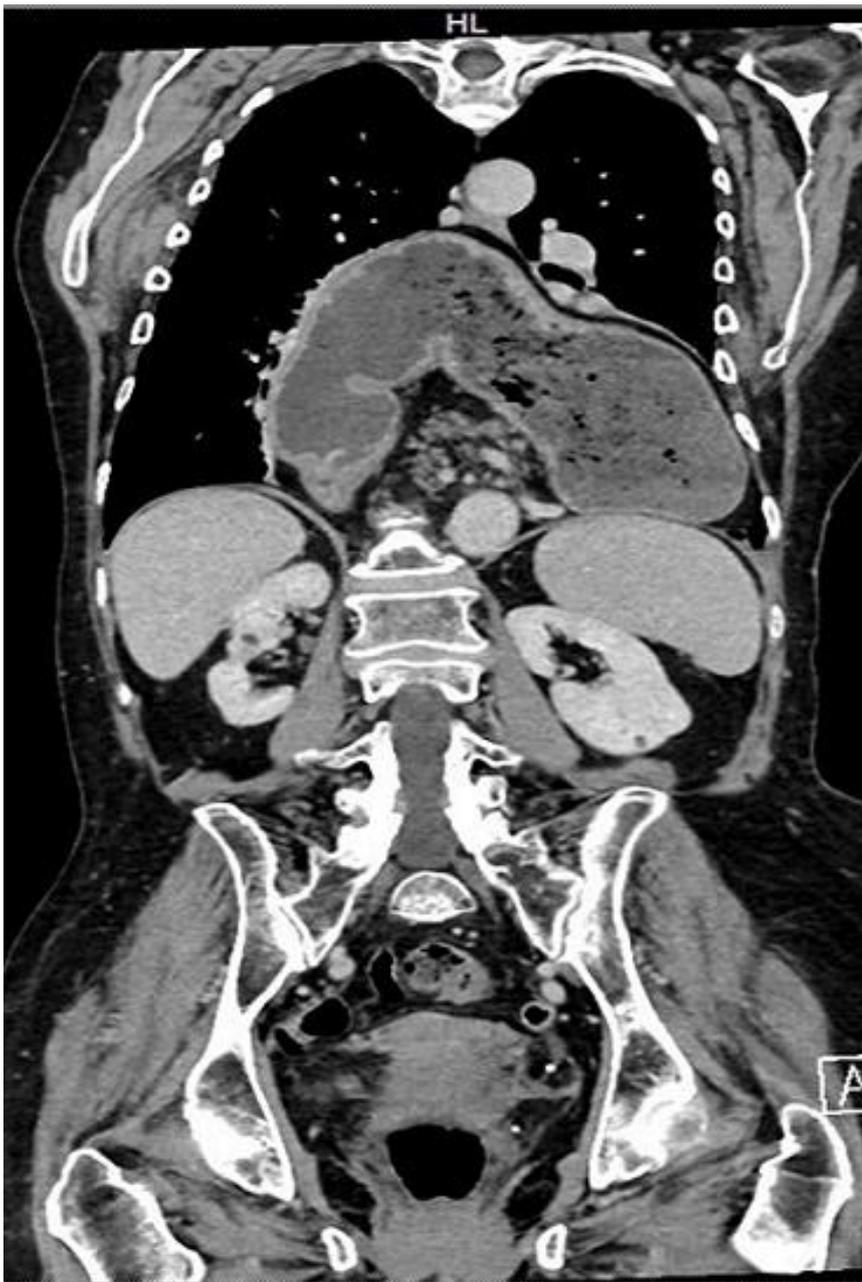
Danilo Coco, Department of General Surgery, Ospedali Riuniti Marche Nord, Pesaro, Italy

## Image in medicine

A Giant hiatal hernia (GHH) is a type III hernia with a sliding and para esophageal component such as > 30% of the stomach, colon, spleen or pancreas due a chronic positive pressure on the diaphragmatic hiatus. Surgical repair requires hernia sac excision, tension-free repair and Nissen fundoplication. Recurrence rates range between 2% and 12%. A 77 years old Caucasian woman presented to the ED with significant thoracic pain, vomiting and bradycardia (<50 bpm). She presented a medical history of atrial fibrillation and anticoagulant therapy. She reported a traumatic rupture of the sternum 5 years ago. Her vital signs were: blood pressure 130/70 mmHg, respiratory rate 40 breaths/minute, heart rate 129 beats/minute and

temperature superior of 36 C. Oxygen saturation was 85% on room air. The abdominal examination was normal. Thoracic examination reported reduced vesicular murmur. Laboratory evaluation revealed high leukocytosis with a white blood cell (WBC) count of 16 per mm<sup>3</sup>. Arterial blood gases (ABG) demonstrated metabolic acidosis. Computed

tomography revealed a giant hiatal hernia with stomach, ileum and colon in thoracic cavity. The patient was immediately started intravenous (IV) fluids of 2l in 6 hours, Foley and jugular catheter vein cannulation to support main arterial pressure and urine output. The patient was discussed for surgical operations.



**Figure 1:** computed tomography revealed a giant hiatal hernia with stomach, ileum and colon in thoracic cavity