Medina Andrade Luis Angel1, Cesar Manuel Vargas Sahagún2, Carlos Eduardo Rodriguez Rodriguez2, Pedro Leonardo Villanueva Solorzano2, Alberto Robles Méndez Hernández2, Bernardo Gutierrez Muñoz2, Valdez Hernandez Brenda Elizabeth3, Brigitte Marlene Chevillon Castillo1, Vallejo Ramirez Jose Eduardo1, Campos Cruz Christian Stefan4

1General Surgery Department, General Zone Hospital
2Hospital General La Villa, México City, México
3Hospital General La Villa, México City, México
4Hospital General La Villa, México City, México

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*Corresponding author: Medina Andrade Luis Angel, General Surgery Department, General Zone Hospital 1A Rodolfo de Mucha Macias, Instituto Mexicano del Seguro Social, México City, Mexico

Abstract
Between the hiatal hernias, the type IV is the less frequent by the great defect, but this type had a high incidence of incarceration (5%), and a mortality rate up to 27%.

Case: A female patient of 80 years old was referred to our hospital by septic shock and abdominal pain. At physical exam she refers abdominal and thoracic pain, dyspnea and occasional threw up for the last 2 days, with a background of this symptoms the last 5 years, and gastroesophageal reflux symptoms for 10 years. At admission, she referred epigastric and retrosternal pain, dyspnea, with an 02 of 75%, bowel sounds in left hemithorax, mean arterial pressure of 50mmHg with the use of norepinephrine. Laboratories do not reveal sepsis and CT scan reports a hiatal hernia of 9 cm with left hemithorax occupied by stomach, colon, and spleen. A cardiogenic shock by compression was suspected with this data and a laparotomy was scheduled. CT scan report was confirmed and the mentioned organs were reduced to abdomen without problems, both diaphragmatic pillars were sutured and a Nissen fundoplication completed. After 6 hours’ norepinephrine was suspended and 48 hours after the patient were discharged uneventfully.

Conclusion: Giant hiatal hernia must be suspected in patients with chronic abdominal and thoracic pain with reflux symptoms because the complications associated with this disease could have a mortality near 30% in case of strangulation and a scheduled surgery could be very safe in the correct moment.

Introduction
Hiatal hernia is a very frequent disease presented in the general population with an incidence of 20%, but this number is very variable according to different publications by the wide range of symptoms or the asymptomatic stage of many patients [1].

This kind of hernia is classified into 4 types. The type I and most common is a sliding hernia, where the stomach and cardia are displaced above the diaphragm. Type II hernia is a defect in the paraesophageal membrane where the gastric fundus is herniated but the gastric junction remains in position. Type III is a combination of the II and III. Type IV refers to a large defect in the paraesophageal membrane which allows herniation of stomach or other intraabdominal components, this is the less frequent and the one associated with severe complications like in the presented case [1].
image in front of the hearth. CT scan was requested reporting a giant hiatal hernia of 9 cm in diameter, with stomach, transverse colon and spleen in the left thorax (Figures 1,2). Considering the laboratory findings without sepsis data and the hiatal hernia with incarcerated organs in the thorax, the diagnosis of cardiogenic shock secondary to compression was established and a laparotomy scheduled. By the cardiogenic shock with the use of norepinephrine a laparoscopic approach was discarded initially and a laparotomy was performed finding the stomach, transverse colon and spleen incarcerated in the thorax, they were reduced by a hiatal hernia of about 10 cm. of diameter without problems (Figures 3,4). A Nissen fundoplication was performed, with adequate response and remission of cardiogenic shock only six hours after surgery. A chest X-ray 24 hours after surgery shows no alteration (Figure 5). After 48 hours of hospital stay and oral feeding, the patient was discharged uneventfully. At 4 months after surgery she stills asymptomatic.

Discussion

Hiatal hernia type I is the most frequent, constituting about 95% of all hiatal hernias, and most patients with this kind of hernia are asymptomatic but may have gastroesophageal reflux. The clinical presentation of giant hiatal hernias like in the case of type IV could be very unspecific, with symptoms of gastroesophageal reflux, thoracic pain, dyspnea, exercise intolerance, or in the course of an emergency like gastric volvulus, respiratory distress or cardiac shock by compression like in the present case [2].

The presentation with dyspnea and low cardiac output have been reported only in one previous case. The first symptom can be due to reflux mediated lung fibrosis or due to compression of cardiac structures like the left atrium and coronary sinus [2].

This kind of giant hiatal hernias use to be more frequent in elderly, manifested by dyspnea and cardiac failure due to compression, with hypoxemia, hypercapnia, and respiratory distress, those symptoms will improve with supplementary oxygen and allow us to suspect the cardiogenic origin [3].

Giant hiatal hernias could present with incarcerated abdominal organs in less than 5% of the cases, but with an associated mortality near 30%, increasing this percentage by the pathologies present in the most affected population [4].

The surgical approach must be scheduled in all cases of symptomatic hiatal hernias, and in this scenario the laparoscopic approach offers the best results in terms of bleeding, hospital stay, postoperative pain, and improved
quality of life compared with the open approach, turning it into the gold standard for repair [5]. The Nissen fundoplication has been accepted as the better approach and to avoid recurrence. Although this is an excellent technique in the short term, the recurrence at 10 years is estimated between 35 to 50% in most centers [6].

One of the contraindications for laparoscopic techniques is a patient in shock by the risk of cardiac arrest secondary to the decreased hearth preload during the pneumoperitoneum insufflation. For those reasons we decided not to perform the laparoscopic correction in this specific case, and patient evolved with excellent results and a hospital stay shorter than any of the reported, inclusive in some laparoscopic corrections [4–6].

**Conclusion**

Symptomatic hiatal hernia must be adequately studied and treated once diagnosed, especially in at-risk population like the elderly by the high rate of associated complications, and cases of incarceration by the high mortality associated, which could be avoided with a timely management.

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