The traditional surgical management of gastric volvulus consists of laparotomy with gastric detorsion and fixation, and diaphragmatic hernia repair. We report here an 83-year-old patient whose gastric volvulus occurred through a giant diaphragmatic defect (Figure 1), who presented with a 1-week history of abdominal pain, distension, vomiting, and dysphagia. At surgery, the gastroesophageal junction, the fundus and distal half of the stomach, and the omentum were found in the thorax, and an intrathoracic organoaxial gastric volvulus with gastric outlet obstruction was diagnosed (Figure 2). We proceeded to laparoscopic herniated organ reduction, excision of the hernial sac, mobilization of the fundus, crural repair, and a Nissen fundoplication and gastropexy. The patient was well and had no hernia recurrence at 1-year follow-up (Figure 3).

During these procedures, the first important step was to make sure we avoided entering the pleura and creating a tension pneumothorax while making the window behind the esophagus (Figure 4). We also chose to approximate tissues using stout, nonabsorbable sutures, taking healthy bites into both sides of the crura posteriorly, and used pieces of mesh to reinforce all the crural repairs (Figure 5). This reduced the risk of ischemic necrosis and subsequent failure of the crural repair. In addition, this meant that we did not need to place prosthetic mesh across the hiatal defect and the complications associated with this were also avoided [1,2]. We thought that suturing the fundic wrap to the right crus with a nonabsorbable stitch would be effective for gastropexy because excessive mobility of the greater curvature of the stomach was restricted after fundoplication (Figure 6). The need for

DOI: 10.1055/s-2006-944793
It is a long-held belief that ageing is associated with a gradual loss of cardiopulmonary reserve and that pneumoperitoneum is dangerous in the elderly [4]. Recently, Ballesta et al. [5] concluded that pulmonary complications might be reduced after a laparoscopic procedure compared with an open approach in elderly patients. Laparoscopic surgery would appear to be the ideal choice of treatment for the elderly because of its minimal invasiveness.

References


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