Case Report

Ismail Ertuğrul,1 Faik Yaylak,2 Merve Şenkul,1 Eray Atlı,3 Ali Tardu4

ABSTRACT

Laparoscopic sleeve gastrectomy is a common procedure for obesity with well-defined complications. This case report describes a splenic infarction observed after a laparoscopic sleeve gastrectomy performed in a 32-year-old female patient with a body mass index of 41 kg/m². On the postoperative second day she presented with left-sided thoracic pain and fever. Intravenous contrast-enhanced computed tomography (CT) revealed a splenic infarction in the upper pole. The patient was treated conservatively with antibiotics and analgesics. She was discharged on the postoperative sixth day. One month later, patient was symptom-free at the control visit. A follow-up CT demonstrated regression on the infarction side with minimal residue.

Keywords: Laparoscopic sleeve gastrectomy; morbid obesity; splenic infarction.

Introduction

Laparoscopic sleeve gastrectomy (LSG) is a common surgical procedure for the treatment of morbid obesity. LSG restricts the gastric volume and decreased fundal Ghrelin levels result with diminished oral intake and appetite. Surgical complications of LSG are well defined. These complications include bleeding, leakage, stenosis, intraabdominal abscess, delayed gastric emptying or gastric dilatation. Rarely splenic complications have been reported.

In this report a splenic infarction after (LSG) has been presented.

Case Report

32 years old female with BMI 41 was scheduled for LSG. On postoperative day two she was presented with left thoracic pain and fever. Otherwise vital signs were stable and laboratory tests were in normal range. Pulmonary emboli was excluded with computed tomography (CT) angiography. However, splenic infarction was observed in the upper splenic pole. Diagnosis was confirmed with IV enhanced abdominal CT (Fig. 1a). Patient was treated conservatively. She was discharged on postoperative day six. One month after surgery CT control has demonstrated regression of infarct area (Fig. 1b).
Discussion

LSG was introduced as a bridge treatment for the surgical treatment of super obesity.[5] Then it was recognized for the short and long term excess weight reduction and is now a common procedure for treatment of obesity.

Splenic infarction and splenic abscess formation has been reported after laparoscopic Nissen fundoplication due to division of short gastric vasculature.[6–8] LSG requires gastric fundus mobilization and division of short gastric vasculature. Thus, upper pole ischemia and necrosis may be observed. Previous reports have documented splenic infarcts in the early postoperative course. Some cases may be more complicated with splenic abscess development. CT is essential in the diagnosis of early complications after LSG.[9–11] Bleeding and early leakage may be life threatening complications to be excluded. In our case splenic infarction was observed with CT angiography review of the laparoscopic images has revealed the ischemic areas after division of short gastric vasculature.

Isolated splenic infarcts are commonly treated conservatively. Abscess is drained under USG guidance or with laparoscopy.[12] Multiple splenic abscess may rarely require splenectomy for those patients with multiple splenic abscess.[12,13] Abscess formation was not observed and in control CT infarct area was regressed.

Conclusion

Splenic infarction should be remembered in those patients with pain and fever after LSG. Close intraoperative observation during after short gastric vasculature may demonstrate early signs of splenic upper pole infarction. Usually the first approach should be conservative.

Disclosures

Informed Consent: Written informed consent was obtained from the patient for the publication of the case report and the accompanying images.

Peer-review: Externally peer-reviewed.

Conflict of Interest: None declared.

References

6. Martínez DG, Sánchez AW, García AP. Splenic abscess after

Figure 1. (a) Infarct sides in the upper splenic pole, iv contrast enhanced CT. (b) Regression of infarction area one months after conservative treatment, iv contrast enhanced CT.


