Roux-en-Y gastric bypass (RYGB) is among the favorite surgical approaches to treating morbidly obese patients, but leads to an increased incidence of cholecodolithiasis. Per-oral endoscopic retrograde cholangiopancreatography (ERCP) represents a major challenge in this situation \[1,2\]. ERCP through a surgically placed gastrostomy has been proposed as an alternative route for endoscopic access \[3 - 5\]. We report a case of endoscopically treated cholecodolithiasis via a transgastric approach during laparoscopic cholecystectomy in a RYGB patient.

A 30-year-old woman underwent a RYGB procedure. Preoperative ultrasonography identified only hepatic steatosis. At 7 months after surgery and a 38 kg weight loss, abdominal ultrasound was performed because of noncharacteristic abdominal pain. Cholelithiasis was identified, and a laparoscopic cholecystectomy was planned.

Intraoperative cholangiography revealed common bile duct (CBD) stones, and only partial ductal clearance was achieved (\(\text{Figure 1}\)). A combined laparoscopic-endoscopic approach was attempted. A small gastrostomy with a purse-string suture was performed on the anterior wall. A duodenoscope was introduced through a 15 mm trocar on the upper left quadrant and through the gastrostomy (\(\text{Figure 2a and b}\)). The duodenum was occluded to prevent air passage and small bowel distension. Endoscopic sphincterotomy and stone extraction were carried out according to standard techniques (\(\text{Figure 3}\) and \(\text{Figure 4}\)). Occlusion cholangiogram confirmed CBD clearance. There was no procedure-related complication, and the patient was discharged on the second postoperative day. The patient is doing well at 8-months' follow up.

Transgastric laparoscopic-assisted ERCP in the management of cholelithiasis in RYGB patients is technically feasible and apparently not associated with a higher complication rate. Its one-step nature may reduce hospital stay and costs.
References


Bibliography

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