O-EGS03  Laparoscopic surgery versus Endoscopy in the management Common Bile Duct Stones: systematic review and Meta-analysis

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**Background:** With the advancement in minimally invasive surgery, a 1 stage Laparoscopic Common Bile Duct Exploration (LCBDE) followed by Laparoscopic Cholecystectomy (LC) is a great alternative to removing the gallbladder and CBD stones provided the surgeon possesses the necessary skills. The current guidelines for managing CBD stones is the 2 stage approach, Endoscopic Retrograde Cholangiopancreatography
CBD stones. Consider LCBDE/LC as the gold standard in managing patients with surgical site infections, haemorrhages, acute cholangitis, perforations, or in successful CBD stone clearance, mortality, and acute pancreatitis.

**Conclusions:** The current evidence suggests that LCBDE/LC is superior to the ERCP+LC arm in terms of successful clearance of CBD stone, mortality rate, and acute pancreatitis. There were no significant differences in surgical site infections, haemorrhages, acute cholangitis, perforations, or duration of hospital stay between the two arms.

**Results:** 849 patients from 7 RCTs were included in the study, 426 in the ERCP+LC arm and 423 in the LCBDE/LC arm. According to the Meta-analysis, Laparoscopic Common Bile Duct Exploration with Cholecystectomy was significantly superior to ERCP + LC in terms of successful Clearance of CBD stone, mortality rate, and acute pancreatitis but had significantly higher rates in biliary leakages. There were no significant differences in surgical site infections, haemorrhages, acute cholangitis, perforations, or duration of hospital stay between the two arms.

**Conclusions:** The current evidence suggests that LCBDE/LC is superior in successful CBD stone clearance, mortality, and acute pancreatitis. However, further RCTs will be needed to assess overall morbidity, surgical site infections, haemorrhages, acute cholangitis, perforations, or duration of hospital stay. The current guidelines must be reviewed to consider LCBDE/LC as the gold standard in managing patients with CBD stones.