

E-038

Single-port Robotic Extended Cholecystectomy Using Da Vinci SP System On Gallbladder Cancer

Wan Joon KIM*¹, Sae Byeol CHOI¹, Soo Yun LIM¹, Seong Wook HAN¹, Wan Bae KIM¹

¹Hepatobiliary And Pancreatic Surgery, 고려대학교 구로병원, REPUBLIC OF KOREA

Background : This study aims to evaluate the feasibility, safety, and clinical outcomes of performing singleport robotic extended cholecystectomy using the da Vinci SP system on patients diagnosed with gallbladder cancer.

Methods : A patient diagnosed with gallbladder cancer underwent single-port robotic extended cholecystectomy using the da Vinci SP system. The study included patient with early-stage cancer and no prior upper abdominal surgeries. Operative parameters such as docking time, console time, total operative time, blood loss, and postoperative outcomes were recorded and analyzed. The procedures were performed using a 3 cm transumbilical incision for the da Vinci SP cannula with an additional port for accessory instrumentation.

Results : The operative time was 210 minutes, with a docking time of 5 minutes and a console time of 180 minutes. The estimated blood loss was less than 400 mL, with no intraoperative complications reported. A patient had uneventful postoperative recoveries, with an hospital stay of 8 days. Pathological examinations confirmed negative surgical margins

Conclusions : The da Vinci SP system is a safe and feasible option for single-port robotic extended cholecystectomy in gallbladder cancer, offering acceptable perioperative outcomes with minimal blood loss and no significant complications. This technique may provide an effective alternative to conventional approaches, combining the benefits of minimally invasive surgery with the precision of robotic assistance. Further studies with larger patient cohorts and longer follow-up periods are necessary to validate these findings and to explore the potential for this approach to become a standard in oncologic surgery.

Corresponding Author : Wan Joon KIM (wjkim0116@korea.ac.kr)