

## Single incision laparoscopic versus conventional laparoscopic cholecystectomy: A systematic review and meta-analysis

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**Purpose:** We performed a systematic review of available RCTs to evaluate the safety, feasibility and possible limitations of single incision laparoscopic cholecystectomy (SILC).

**Methods:** Systematic literature search was undertaken and RCTs comparing SILC and conventional laparoscopic cholecystectomy (CLC) were included. Related data was extracted and analyzed.

**Results:** Ten studies were included. SILC was successfully performed in 99.43% patients and with conventional instruments mostly. Similar blood loss (MD=2.86ml) and comparable postoperative complications (OR=1.12, P=0.74) were noted in both groups. Longer operative time was required for SILC, mean difference was 16.65 minutes (P=0.002). No difference was detected in length of hospital stay between these two techniques (P=0.93). Though SILC is associated with improved cosmetic results, the superiority in postoperative pain, satisfaction and quality of life has not been detected.

**Conclusions:** SILC is a safe procedure with improved cosmetic results. It may be offered as an alternative for cholecystectomy in carefully selected patients.

### Biography

Dr. Song has completed his M.D. at the age of 26 years from Sichuan University. He is a resident training in West China Hospital of Sichuan University. He has published 5 papers in reputed journals.