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### Comparative Study: Single-Incision Laparoscopic Cholecystectomy and Conventional Three-Ports Laparoscopic Cholecystectomy

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#### Abstract

**Background:** Laparoscopic cholecystectomy is now standard treatment of gallstone disease and has traditionally been performed using multiple small sites. Single-incision laparoscopic surgery has emerged as an alternative technique to improve cosmesis and minimize complications associated with multiple incisions pain and longer hospital stay.

**Material and Method:** Between January 2010 and December 2012, 40 patients were assigned to one of the two groups, SILS-C or conventional LC. Surgical indication, operative time, length of stay, and surgical complications were compared between the two groups.

**Results:** Twenty patients underwent SILS-C and 20 patients underwent conventional three ports LC. The average length of stay was  $2.60 \pm 0.88$  days after SILS-C compared with  $2.65 \pm 0.87$  days after CLC ( $p = 0.871$ ). Operative time was significantly longer in the SILS-C group. An average of 65 minutes was needed to complete a SILS-C (range 35-141) versus 51 minutes (range 24-109) for a CLC ( $p < 0.001$ ). There was no difference in pain score and complications between both groups but SILS-C group use less analgesic ( $81.00 \pm 36.55$  mg in SILS-C vs.  $123.00 \pm 42.31$  mg in the conventional group).

**Conclusion:** The Single Incision Laparoscopic Cholecystectomy (SILS-C) is feasible and safe. The results of SILS-C were comparable with the standard conventional LC.

**Keywords:** Laparoscopic cholecystectomy, Single Incision Laparoscopic Cholecystectomy (SILS-C)

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