



ORIGINAL RESEARCH PAPER
COMPARISON OF DURATION OF SURGERY OF GALLBLADDER EXTRACTION FROM UMBILICAL PORT VERSUS EPIGASTRIC PORT IN PATIENTS UNDERGOING LAPAROSCOPIC CHOLECYSTECTOMY

General Surgery
KEY WORDS: open cholecystectomy(OC), cholecystitis, Laparoscopic cholecystectomy(LC), gold standard

Dr Savya Sachi

MS General Surgery CH Baijnath

Dr Arpita Sharma

MD Ayurveda

ABSTRACT

Open cholecystectomy was once gold standard operation for cholecystitis and cholelithiasis is no more a routine practice. Laparoscopic cholecystectomy has replaced it as the gold standard treatment for symptomatic gall stone disease. Over the years it has gone through the evolutionary process in terms of various modifications, thus conventional technique of laparoscopic cholecystectomy has constantly been refined.

INTRODUCTION

Laparoscopic cholecystectomy (LC), introduced in 1987, is now the preferred method of cholecystectomy. Laparoscopic cholecystectomy has revolutionized the surgical management of gallbladder (GB) diseases by reducing postoperative pain, risk of surgical site infection and incisional hernia. Laparoscopic cholecystectomy is also reported to have an edge over open cholecystectomy due to shorter hospital stay, early return to work and overall low cost. Retrieval of GB is an important terminal event of laparoscopic cholecystectomy and is reported as one of the factors affecting postoperative port site pain. GB is extracted commonly either from the epigastric or umbilical port. Both the ports have been recommended for retrieval of GB in laparoscopic cholecystectomy, and are always selected as per surgeon's preference.

in the epigastric and umbilical port group.

CONCLUSION

- In the present study, the mean operative time was 57.4 minutes in epigastric port group and 52.94 minutes in the umbilical port group (p=0.024 significant).
- In the present study mean time for GB extraction was 4.8 minutes in the epigastric port group and 4.06 minutes in umbilical port group (p value<0.001 significant).

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Observation

Total Duration Of Surgery (N=100)

Port of extraction	Total duration of surgery (minutes) Mean	P Value
Epigastric port	57.40	0.024
Umbilical port	52.94	

Duration Of Gb Extraction Time (N=100)

Port of extraction	GB extraction time (minutes) Mean	P Value
Epigastric port	4.80	<0.001
Umbilical port	4.06	

DISCUSSION

Duration Of Surgery

In the present study, the mean operative time was 57.4 minutes in epigastric port group and 52.94 minutes in the umbilical port group (p=0.024 significant). In a study conducted by Min Li et al, the mean operative time of epigastric port group was significantly shorter than that of umbilical port group (35 ±15.16 min vs. 42 ±14.58 min, p < 0.01).

Gall Bladder Retrieval Time

In the present study mean time for GB extraction was 4.8 minutes in the epigastric port group and 4.06 minutes in umbilical port group (p value<0.001 significant). In the study conducted by Abbas et al, the average time taken in extraction of GB varied from 3 to 16 minutes for epigastric port group and 2-12 minutes for umbilical port group. The difference was statistically insignificant (p=0.909). Bashir et al, reported that the mean time for gall bladder delivery was 10.62 minutes in epigastric group while 8.64 minutes in umbilical group showing a significant difference in both groups (p value= 0.032), however in the study conducted by Kaya et al, there was no significant difference in the need for enlargement of port site and time required for GB extraction